

Virginia Tech Board of Visitors Meeting

August 29-30, 2010

Information Session

Minutes

- B. **Resolution:** Make Permanent the Standing Research Committee
- C. **Resolution:** Ratification of the Faculty Handbook Changes for 2010
- D. **Minutes:** Buildings and Grounds Committee
- E. **Resolution:** Regional 911 Emergency Communications Center
- F. **Resolution:** Appointment to Blacksburg-Christiansburg-VPI Water Authority
- G. **Resolution:** Town of Blacksburg Easement
- H. **Resolution:** Virginia Tech Foundation, Inc. Easement
- I. **Resolution:** Reaffirming Delegation to the Chief of Policy Authority to Adopt and Enforce Trespassing Regulations
- J. **Minutes:** Finance and Audit Committee
- K. **Resolution:** Approval of Potential Operating Budget and Capital Budget Initiatives for 2011-12
- L. **Resolution:** Approval of Year-to-Date Financial Performance Report, July 1, 2009 - June 30, 2010
- M. **Resolutions:** Approval of 9(c) Debt Financing: Parking Auxiliary Improvements and Academic and Student Programs Building
- N. **Resolution:** Approval of 9(d) Debt Financing: Henderson Hall/Center for Creative Technologies and Academic and Student Programs Building
- O. **Resolution:** Approval to Reappoint University Commissioner to the Hotel Roanoke Conference Center Commission
- P. **Resolution:** Approval of the Virginia Tech Technology Services and Operations Corporation and Affiliation Agreement
- Q. **Minutes:** Research Committee
- R. **Resolution:** Approval of Appointments to the Virginia Coal and Energy Research and Development Advisory Board
- S. **Minutes:** Student Affairs and Athletics Committee
- T. **Report:** Research and Development Disclosures
- U. **Resolutions:** Appreciation Honoring Outgoing Board of Visitors Members
- V. **Resolution:** ACC Governing Board Annual Certification
- W. **Resolution:** Approval of Creating the Health Sciences Division

X. [Resolutions](#): Emeritus and Emerita Status (49)

Y. [Resolutions](#): Endowed Professorships and Fellowships (11)

Z. [Resolutions](#): Naming University Facilities (4)

AA. [Reports](#): Ratification of Personnel Changes

BB: [Reports](#): Constituent Reports

Board of Visitors Information Session

August 29, 2010

2:00 – 4:15 PM

The Inn—Solitude Room

2:00 - 2:20 PM	<u>Presentation on Freedom of Information and Conflict of Interest Laws</u> (<i>Ms. Kay Heidbreder, University Counsel</i>)
2:20 - 2:40 PM	<u>Presentation on Overview of Academic Affairs and Current Issues</u> (<i>Dr. Jack W. Finney, Associate Provost for Faculty Affairs</i>)
2:40 – 3:00 PM	<u>Presentation on Overview of the Finance and Audit Areas and Issues</u> (<i>Mr. M. Dwight Shelton, Jr., Vice President for Finance & Chief Financial Officer</i>)
3:00 - 3:20 PM	<u>Presentation on University-Related Corporations and the Virginia Tech Foundation</u> (<i>Dr. Raymond D. Smoot, Jr., University Treasurer & Chief Operating Officer & Secretary-Treasurer, Virginia Tech Foundation, Inc.</i>)
3:20 – 3:35 PM	Break
3:35 – 3:55 PM	<u>Presentation on College of Architecture and Urban Studies (CAUS)</u> (<i>Dean Albert Jack Davis, Reynolds Metals Professor, College of Architecture & Urban Studies</i>)
3:55 – 4:15 PM	<u>Presentation on College of Engineering (COE)</u> (<i>Dean Richard C. Benson, College of Engineering</i>)

**FREEDOM OF
INFORMATION ACT
AND
STATE AND LOCAL
GOVERNMENT
CONFLICT OF
INTERESTS ACT**

FOIA

Section 2.2-3700, Code of Virginia

Guarantees that Government is operated in the
sunshine



FOIA

TWIN AIMS OF LAW

FIRST:

Citizens of the Commonwealth have access to public records

FOIA, Cont

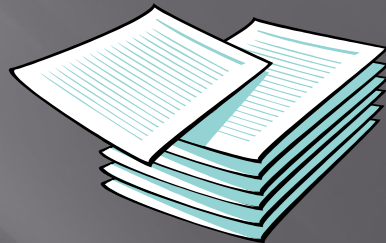
There are exclusions to right to inspect records:

Examples:

1. Scholastic records
2. Academic records
3. Records relating to public safety, including records of Threat Assessment Team

FOIA, Cont

4. Proprietary, scholarly work before publication
5. Fund-raising records
6. Presidential working papers



FOIA, Cont

SECOND:

Citizens of the Commonwealth have access to public meetings

Board of Visitors meetings to be open to the public

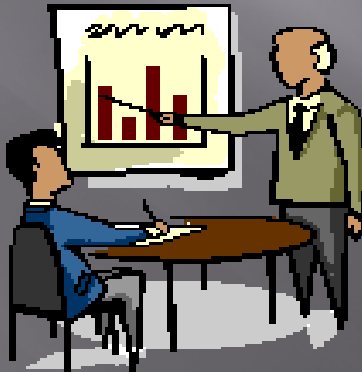
FOIA, Cont

What constitutes a meeting:

- A. Three or more members present
- B. Meeting may be held electronically, but only if a quorum of the public body is physically assembled in one location and the remote location is open to the public.
- C. Must have at least one meeting per year where no one participates electronically

FOIA, Cont

If minutes are taken, they must be made available to the public for inspection.



FOIA, Cont

Closed meetings can be held for limited purposes:

1. Employment matters where individuals will be discussed
2. Student disciplinary matters
3. Matters related to acquisitions or disposal of real estate

FOIA, Cont

4. Investment of public funds
5. Consultation with legal counsel if there is actual or probable litigation or if legal advice is sought
6. Gifts, bequests, and fund raising activities and grants and contracts

FOIA, Cont

Prior to going into closed session, there must be a Motion, adopted by the Board Members, outlining purposes of closed session.

After closed session, a Motion certifying that only matters lawfully exempt from open meeting requirements must be put to a vote of Board Members

COIA

SECTION 2.2-3100, CODE OF VIRGINIA

The law is designed to prohibit inappropriate financial conflicts and the law requires disclosure of economic interests.

COIA, Cont

1. Regulation of Conduct
 - A. Prohibits bribes
 - B. Use governmental confidential information for personal benefit



COIA, Cont

2. Regulates Contracts

- a. General rule – no personal contracts with your agency
- b. Exceptions exist
 - i. Research and development contracts
 - ii. Employment by the same agency of family members
- c. Certain competitively bid contracts

COIA, Cont

Annual Disclosure of Financial Interests Required

Disclosure form must be filed on or before January 15 annually



COIA, Cont

Conflict of Interest Orientation Course

This on-line course is required to be completed
with sixty (60) days of your appointment to the
Board of Visitors

COIA, Cont

(<https://covkc.virginia.gov/oag/external/>)



Academic Affairs
Board of Visitors - Information Session August 29, 2010

Jack W. Finney, Ph.D.
Associate Provost for Faculty Affairs



Academic Affairs

“The Academic Affairs Committee reviews policies pertaining to the academic affairs of the University.”

-from the Bylaws of the BOV

- Undergraduate Education
- Graduate Education
- Faculty Affairs
- Inclusive Excellence
- Outreach/Extension and International Affairs
- Academic Initiatives



Academic Affairs Agenda

Provost, committee chair, and members discuss and set objectives annually

- In 2009-2010, four themes organized resolutions, reports, and updates:
 - Faculty Affairs
 - Academic Initiatives
 - Global Strategies
 - Inclusive Excellence
- Provost's Update



Faculty Affairs

- Appointments
 - Emeriti status
 - Endowed Professorships and Fellowships
 - Personnel Changes
- Faculty Promotion and Tenure (June)
- Recruitment and Retention
- Compensation
- Policies
 - Faculty Handbook (August)
 - Work-life policies (modified duties, stop-the-clock)



Faculty Profile – 2009

Tenure/Tenure-track*	1,383	42%
Admin/Professional*	1,094	33%
Research	569	17%
Instructors	231	7%
	3,277	100%

*Continued Appointment/Continued-Appointment Track included



Academic Initiatives

- New Degree Programs
 - Recent examples:
 - M.A. in Material Culture and Public Humanities
 - B.S. in Agribusiness
 - B.S. in Applied Economic Management
- Reaffirmation of Accreditation
 - Southern Association of Colleges and Schools (SACS)
- Academic Mid-Term Review - University Strategic Plan



Global Strategies

International Strategic Plan

- Global Regional Centers
 - Chile, Dominican Republic, Egypt, India, Switzerland
- Education / Study Abroad
 - More than 1,200 students in 48 countries annually
- Significant Sponsored Projects
 - Office of International Research, Education, and Development (OIREd)
 - More than \$30M from USAID



Inclusive Excellence

- 2010-2013 Virginia Tech Diversity Strategic Plan
- Faculty recruitment strategies
 - Cluster hires
- Student recruitment and retention
 - Graduate: Future Faculty Initiative
 - Undergraduate: Pipeline programs



Reaffirmation of Accreditation

- Southern Association of Schools and Colleges (SACS)
- Ten-year cycle, university-wide, intensive self-study and review
- Accreditation required for students to be eligible for Federal Financial Aid
- More than 100 university personnel intensively involved
- More than 1,000 hours of dedicated time
- Countless hours of meetings, drafting, editing, tracking, etc.
- \$\$\$



Quality Enhancement Plan (QEP)

QEP – a SACS requirement demonstrating the university's commitment to enhancing student learning

- 2006-2010
- First Year Experiences
 - Ongoing FYE programs (e.g., COE's Galileo and Hypatia)
 - Five new FYE Programs in progress
 - CAUS, CLAHS, COS, COS+CALS, UAAC
- \$4,360,351 – current estimated investment over 5 yrs



SACS Reaffirmation of Accreditation

December 2009	Offsite review report to Virginia Tech	Completed
February 2010	Submit Focused Reports and QEP	Completed
February 2010	Site visit to off campus branch (Egypt)	Completed
March 16-18, 2010	Onsite review visit	Completed
April 27, 2010	Onsite review report to Virginia Tech	Completed
July 2010	Submit response to onsite review report to SACS	Completed
October 2010	Deadline for review of response to onsite report	
December 2010	SACS Annual Meeting – accreditation decision conveyed	



Academic Program Accreditation

Agriculture and Life Sciences	Three programs
Architecture and Urban Studies	Eight programs
Business	College (AACSB) and three programs
Engineering	All programs (ABET)
Liberal Arts and Human Sciences	Eight programs
Natural Resources	Five programs
Science	Two programs
Veterinary Medicine	College (AVMA) and one program
School of Medicine	School (LCME)
ALL COLLEGES	>35 Accrediting Organizations



Thank you.

Overview of University Finance Board of Visitors August 29, 2010

M. Dwight Shelton, Jr.

Vice President for Finance and Chief Financial Officer

Basic Elements of University Finance

Finance Roles at Virginia Tech

Obtaining external resources
and generating internal
resources



Allocating resources consistent
with University leadership and
the Strategic Plan

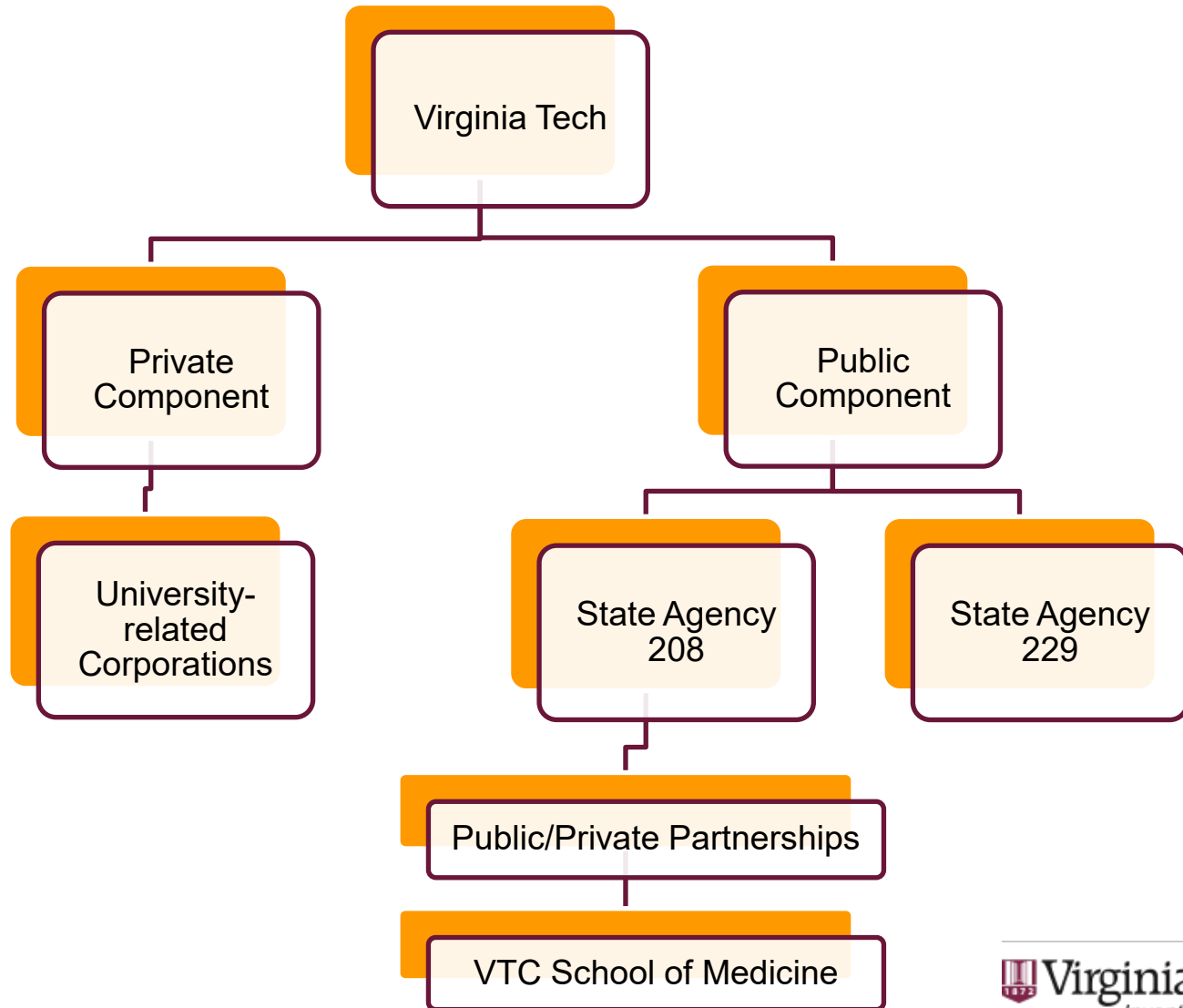


Providing a framework for
financial control and accounting
for resources

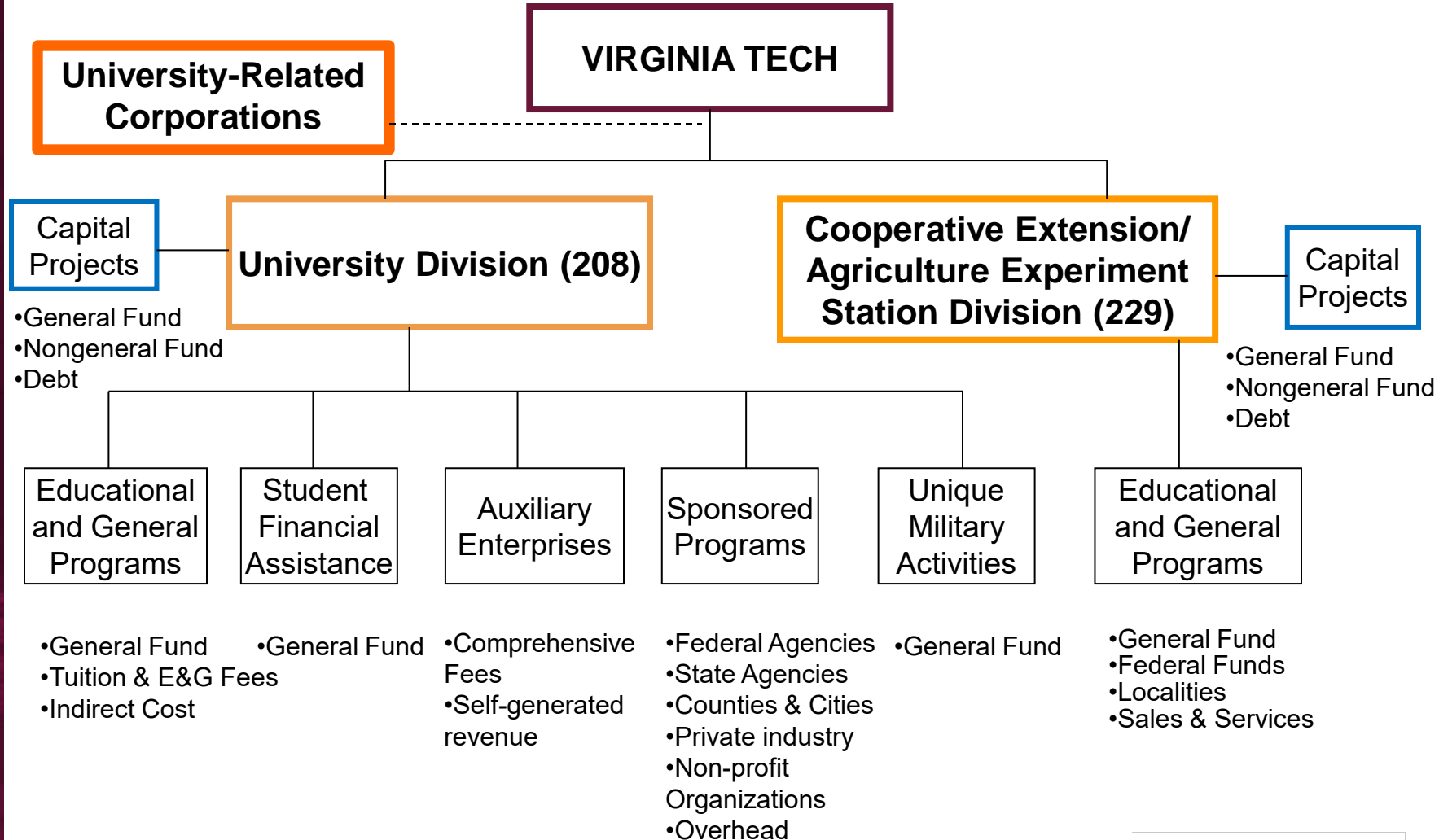
Key Concepts of Higher Education Finance

- Fund Accounting is a fundamental principle that guides higher education finance. It separates resources to:
 - Achieve specific goals and objectives
 - Comply with external requirements
- Balanced Budgets
- Separation of Operating Funds and Capital Outlay Funds

VT Corporate Structure



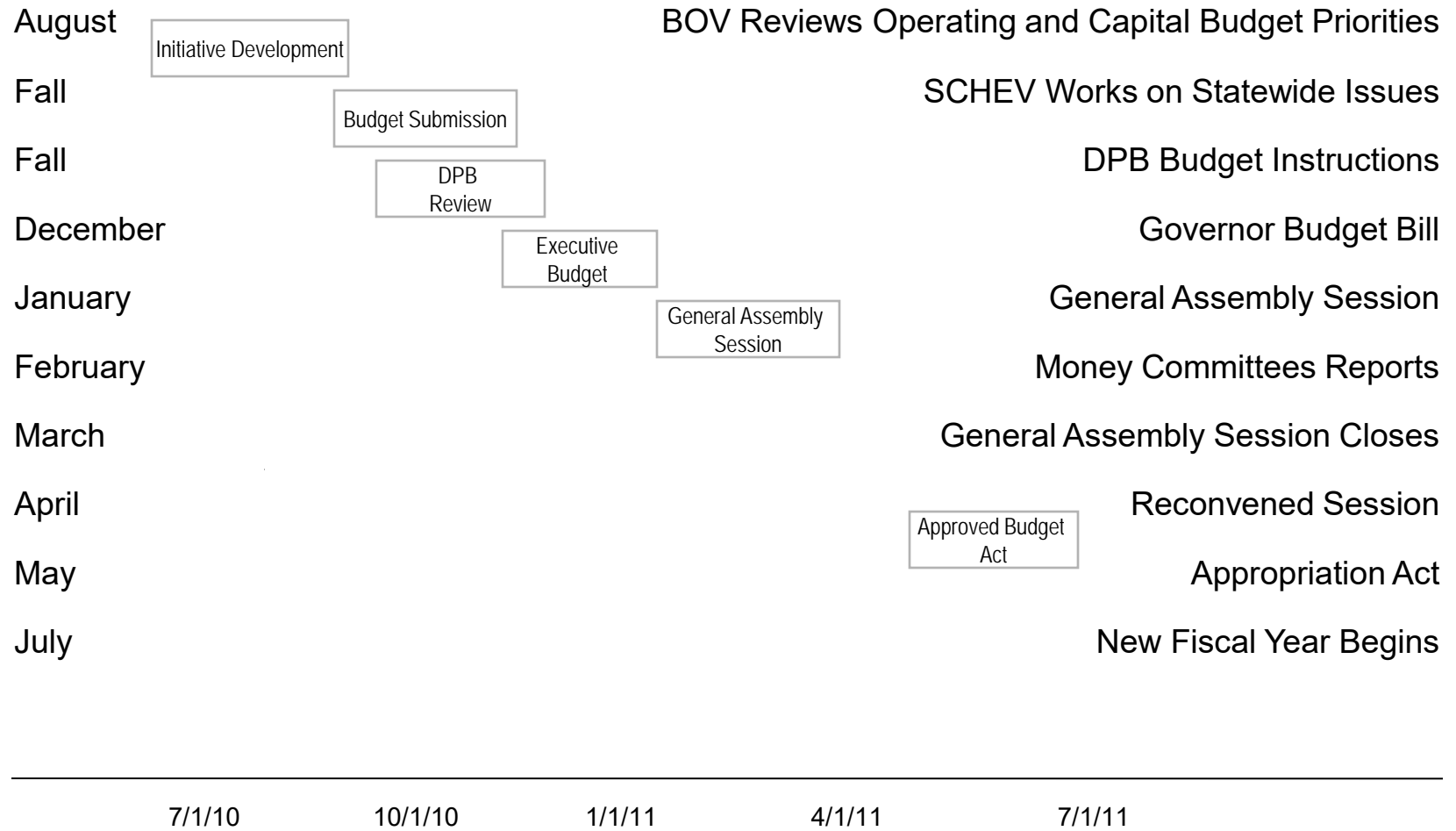
The Concept of Fund Accounting



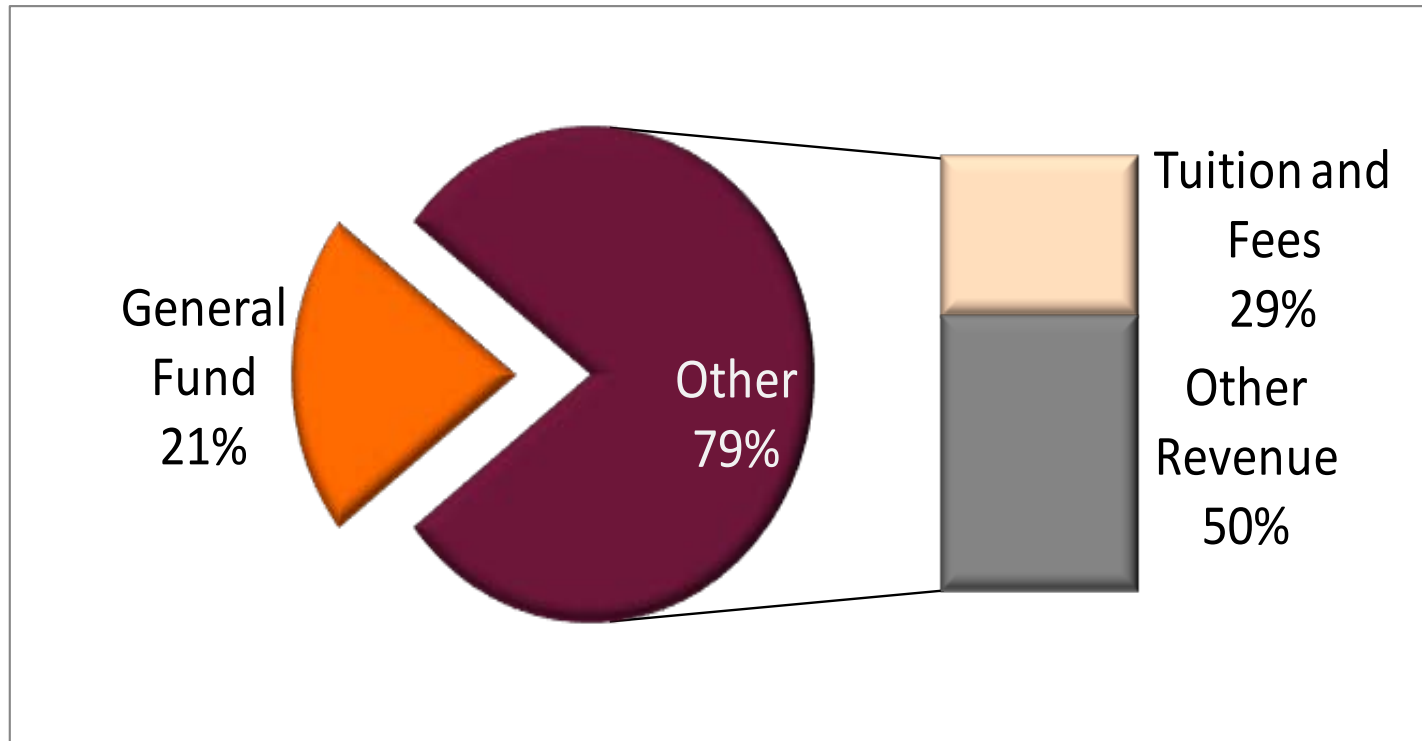
University Budget Overview

External Budget Timeline

2011-2012



Revenue Components of the 2010-11 Budget



Total Operating Budget for VT

Fiscal Year 2010-11

\$ in millions

Program Category

2010-11 Budget

Educational and General

University Division (Instructional Program)

General Fund	\$	147.7
Tuition and Fees		316.9
All Other Income		46.6

Subtotal 511.2

CE/AES Division (Land Grant Program)

General Fund		62.4
Federal Funds		18.7
All Other Income		0.7

Subtotal 81.8

Total Educational and General \$ 593.0



Total Operating Budget for VT

Fiscal Year 2010-11(*continued*)

\$ in millions

Total Educational and General	\$ 593.0
Auxiliary Enterprises	227.3
External Sponsored Programs	
General Fund	2.6
Nongeneral Fund	252.8
Total	255.4
Student Financial Aid (State Funded)	
General Fund	17.7
Nongeneral Fund	2.4
Total	20.1
All other Programs (b)	
General Fund (UMA)	1.3
Nongeneral Fund	4.2
Total	5.5
University Public Budget (all funds)	1,101.2
Virginia Tech Foundation (VTF)	126.4
All Other University Entities (c)	29.8
All University Operations	\$ 1,257.4

Footnote

(a) Financial Assistance for E&G Programs includes Sponsored Programs, the Eminent Scholars Program, and General Fund Research Initiative.

(b) All Other Programs include Unique Military Activities, Surplus Property, Local Funds, Federal Work Study, and Alumni Affairs.

(c) Reflects estimated annual expenses of VT Services and VT Intellectual Properties



Percentage of General Fund Support

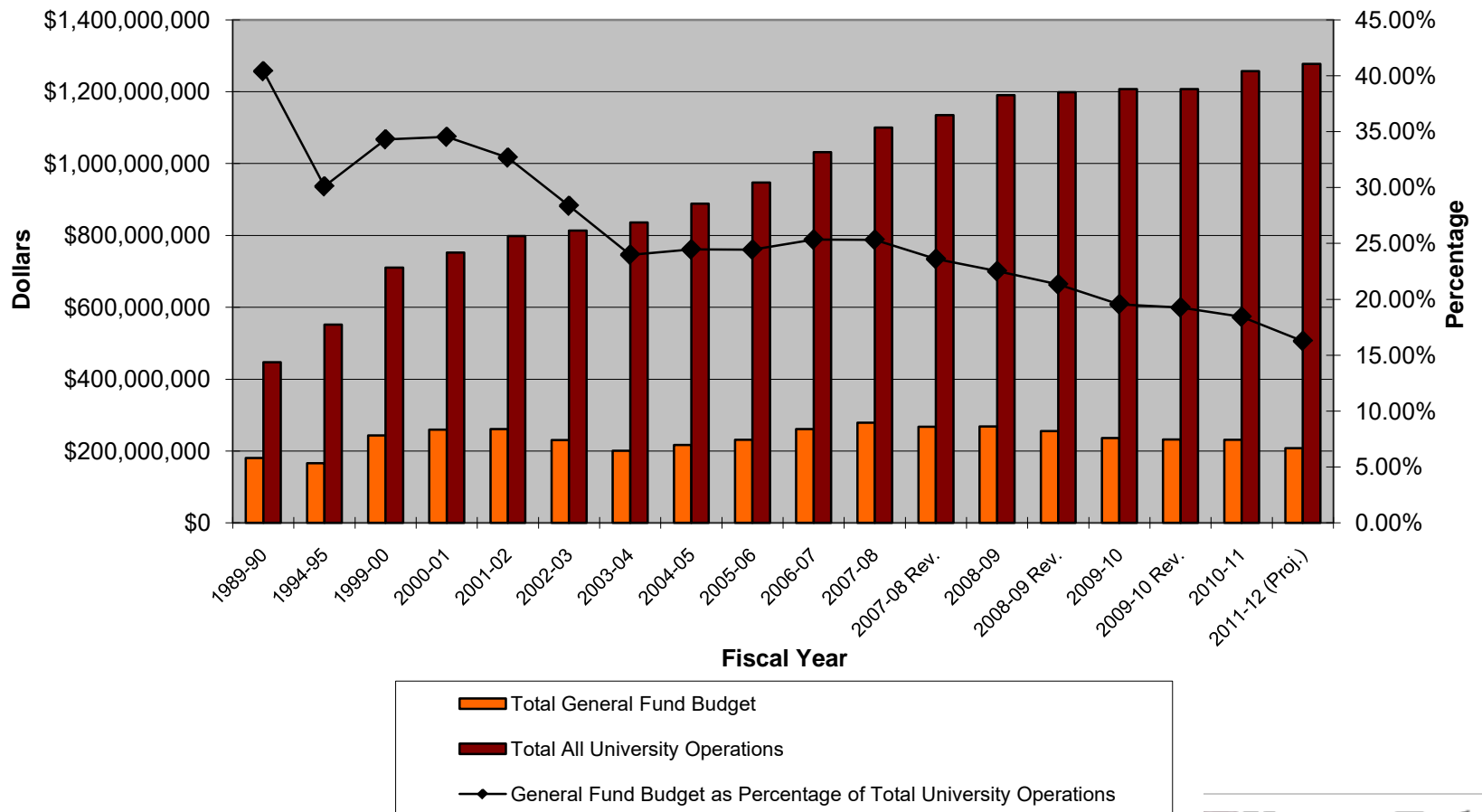
Fiscal Year 2010-11

\$ in millions

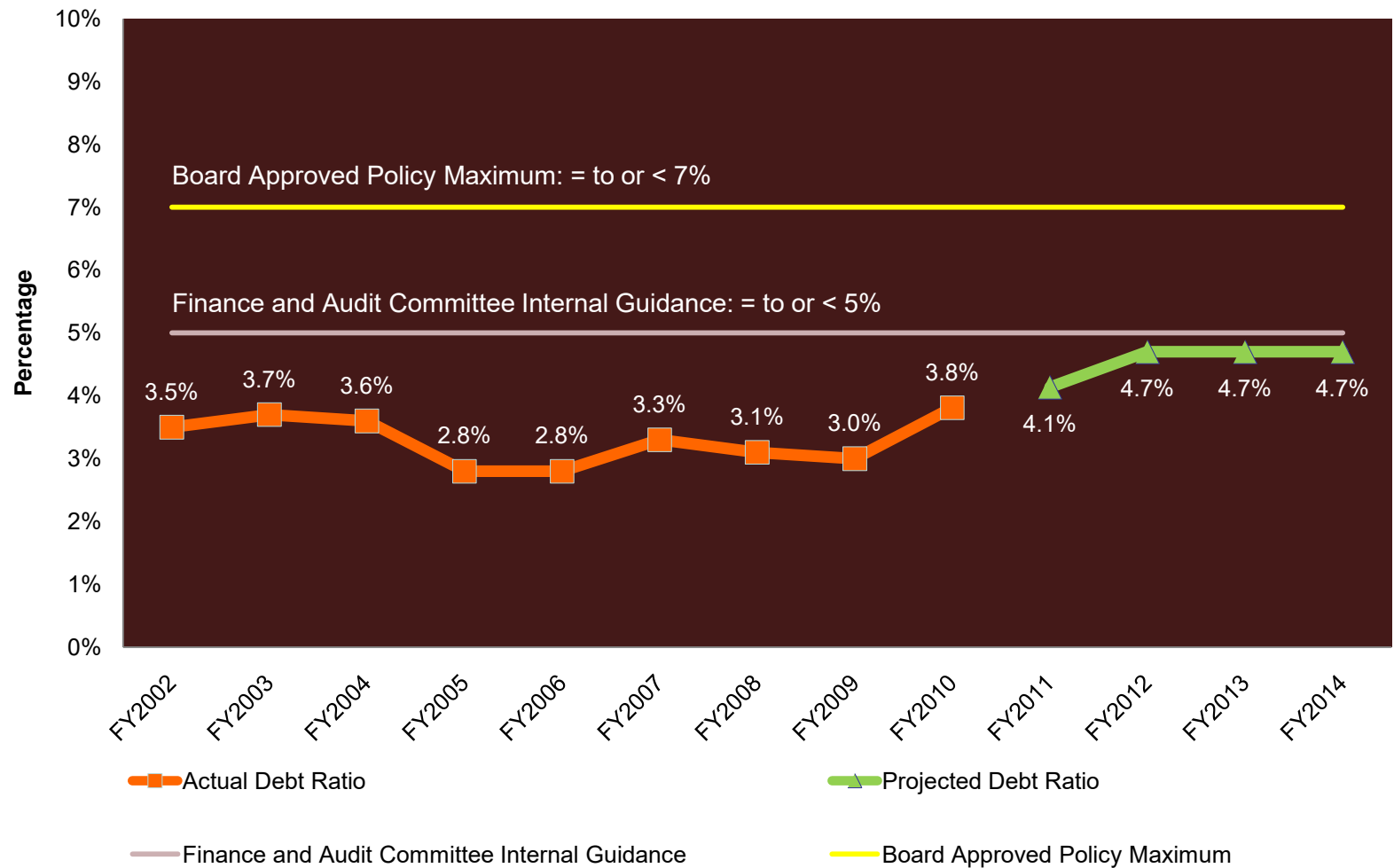
Program Category	GF Budget	Total Budget	GF as a % of Total Budget
E&G - 208	147.7	511.2	28.9%
E&G - 229	62.4	81.8	76.3%
Total E&G	210.1	593.0	35.4%
Student Financial Aid	17.7	20.1	88.1%
Subtotal E&G and SFA	227.8	613.0	37.2%
Auxiliary Enterprises	0.0	227.3	0.0%
Sponsored Programs (1)	2.6	255.4	1.0%
All Other Programs (2)	1.3	5.5	24.2%
University Budget (all funds)	231.7	1101.2	21.0%
Virginia Tech Foundation (VTF) (3)	0.0	126.4	0.0%
University Operations including VTF	231.7	1227.6	18.9%
All Other University Entities (4)	0.0	29.8	0.0%
All University Operations	\$ 231.7	\$ 1,257.4	18.4%

Percentage of General Fund Support

**Historical General Fund Support Percentage of Total University Budget
Forecast to 2011-12**



University Debt Ratio



This measure is the University's actual annual debt service as a percent of its total operating expenses and is calculated and provided by Moody's, which they calculate based on the University's annual disclosure information. Fiscal years FY2011-1014 are projected.

Note: FY07 figure was updated in October 2008 from 3.9 to 3.3 to reflect actual figure.

Budget Reductions and the Impact on Virginia Tech

Cumulative General Fund Reduction Assigned to University

As of March 2010

Cumulative Reduction

	2007-08	2008-09	2009-10	2010-11	2011-12
University Division GF Reductions (Agency 208)	-\$10,152,243	-\$18,806,481	-\$41,585,825	-\$43,070,160	-\$59,731,632
CE/AES Division GF Reductions (Agency 229)	-2,437,555	-4,745,549	-5,894,958	-5,894,958	-10,348,983
Other *	-1,050,484	-234,585	-955,135	-4,663,850	-4,663,850
Cumulative GF Reduction	<u>-\$13,640,282</u>	<u>-\$23,786,615</u>	<u>-\$48,435,918</u>	<u>-\$53,628,968</u>	<u>-\$74,744,465</u>
Cumulative GF Reduction %	-5.2%	-9.1%	-18.5%	-20.5%	-28.5%

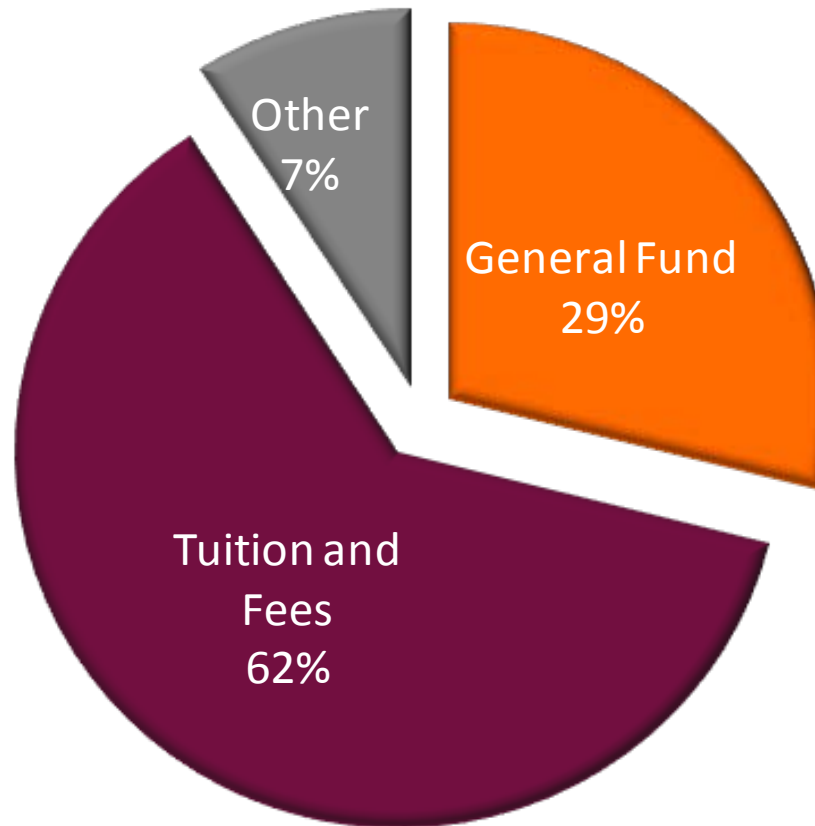
*Represents reductions to the Equipment Trust Fund, Maintenance Reserve, Eminent Scholars, Commonwealth Research Initiative, and Unique Military Activities programs.

Incremental Reductions Assigned to Operating Units

	One-Time Reductions	Base Reductions
2007-08	2.5%	3.5%
2008-09	1.5%	-
2009-10	2.0%	5.0%
2010-11	-	1.74%
2011-12	-	1.16%

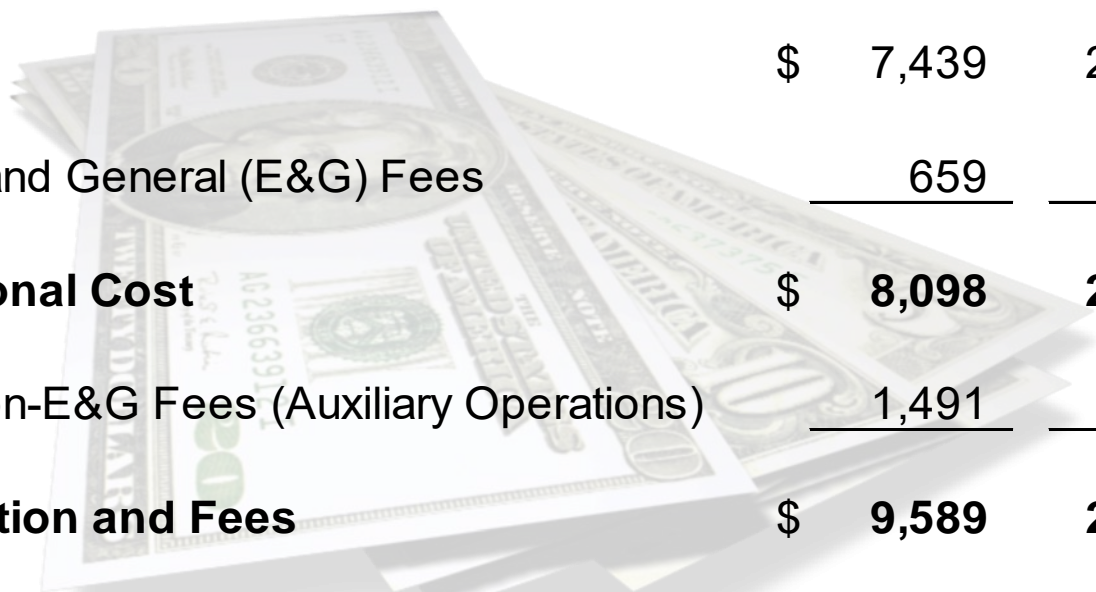
Tuition and Fee Resources

Tuition as a Part of the 2010-11 Agency 208 Educational and General Budget



Tuition and Fees

2010-11 Undergraduate Costs



	Virginia Resident	Non- Resident
Tuition	\$ 7,439	20,498
Educational and General (E&G) Fees	<u>659</u>	<u>1,228</u>
Instructional Cost	\$ 8,098	21,726
Mandatory non-E&G Fees (Auxiliary Operations)	<u>1,491</u>	<u>1,491</u>
Total Tuition and Fees	\$ 9,589	23,217
Room and Board Charges (average for the system)	<u>6,290</u>	<u>6,290</u>
Total Cost	\$ <u>15,879</u>	<u>29,507</u>
Average Cost of Education (ACE) at VT:	\$15,805	
Percentage of ACE Charged by Group	51%	137%

SCHEV Peer Group

University of California, Berkeley

University of California, Davis

University of Colorado, Boulder

Cornell University

University of Florida

University of Illinois, Urbana-Champaign

Iowa State University

University of Maryland, College Park

University of Michigan, Ann Arbor

Michigan State University

University of Minnesota – Twin Cities

University of Missouri – Columbia

North Carolina State University

The Ohio State University

Penn State University

University of Pittsburgh

Purdue University

Rutgers, The State University of New Jersey

SUNY at Buffalo

University of Southern California

Stony Brook University

Texas A&M University

The University of Texas at Austin

The University of Washington - Seattle

University of Wisconsin – Madison

NOTE: Institutions not used in tuition and fee comparisons are (1) Cornell [public and private organizational structure] and (2) University of Southern California [private].

COMPARISON OF TOTAL COSTS

Between Virginia Tech, SCHEV Peers, and Virginia Institutions

	2010-11 (1)		
	VT	60th Percentile	VT Rank
In-state Undergraduate			
Public SCHEV Peers	\$15,879	\$20,358	21 out of 24
Virginia Institutions	\$15,879	\$17,459	9 out of 15
Out-of-state Undergraduate			
Public SCHEV Peers	\$29,507	\$36,932	18 out of 24
Virginia Institutions	\$29,507	\$32,449	6 out of 15
In-state Graduate			
Public SCHEV Peers	\$10,933	\$12,688	13 out of 24
Virginia Institutions	\$10,933	\$9,857	2 out of 12
Out-of-state Graduate			
Public SCHEV Peers	\$19,957	\$25,758	18 out of 24
Virginia Institutions	\$19,957	\$22,022	8 out of 12

(1) IPEDS will publish 2010-11 rates for peer institutions in November 2010. As a surrogate, projections are utilized.

The SCHEV peer institution rates for 2010-11 are projected based on the average annual rate of increase for SCHEV peers in 2009-10. Virginia Institution data are from the preliminary SCHEV report of May 2010.

COMPARISON OF TUITION & FEES

Virginia Tech, Public SCHEV Peers, and Virginia Institutions

	2010-11 (1)		
	VT	60th Percentile	VT Rank
In-state Undergraduate			
Public SCHEV Peers	\$9,589	\$10,443	9 out of 24
Virginia Institutions	\$9,589	\$9,289	5 out of 15
Out-of-state Undergraduate			
Public SCHEV Peers	\$23,217	\$26,933	18 out of 24
Virginia Institutions	\$23,217	\$24,305	5 out of 15
In-state Graduate			
Public SCHEV Peers	\$10,933	\$12,688	13 out of 24
Virginia Institutions	\$10,933	\$9,857	2 out of 12
Out-of-state Graduate			
Public SCHEV Peers	\$19,957	\$25,758	18 out of 24
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Restructuring Higher Education

Virginia's Restructuring Act

- Grew out of 2002-04 budget reductions
- Goals – BOV authority for tuition and fees and streamlined operating processes
- 2004 – Charter proposal rejected
- 2005 – Higher Education Restructured Operations Act passed
- 2006 – Management Agreements legislation enacted for Level 3 Institutions (UVA, W&M, and VT)
- 2008 – Legislation enacted for a 4th Level 3 Institution (VCU)

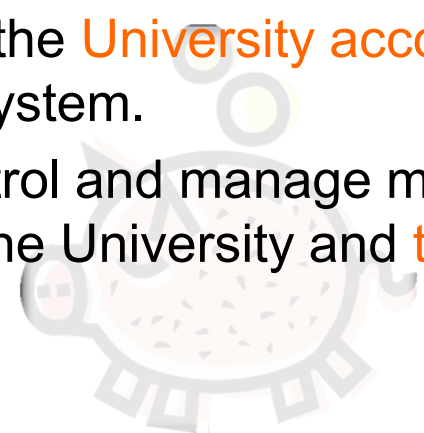
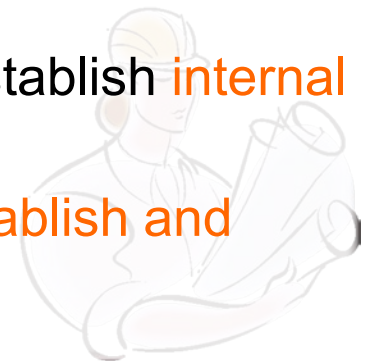
Restructuring Financial Benefits

- BOV authority to **establish tuition and fee rates.**
- Retain **interest earnings** on nongeneral fund balances.
- Rebate on purchasing card program.
- Reduced charges from **eVA** (State's procurement system)

Virginia Tech Management Agreement

Administrative Authorities Received

- Capital Outlay
 - Ability to designate a Building Official and establish **internal review unit**.
 - Provides authority to Board of Visitors to **establish and initiate nongeneral fund projects**.
- Finance
 - Authority to create and implement own **financial management system**.
 - Operation of the **University accounting system**, independent of the state system.
 - Ability to control and manage moneys generated and received by the University and **to retain resulting interest earnings**.



Virginia Tech Management Agreement

Administrative Authorities Received

- Human Resources

- Ability to develop and implement new **human resources system**
- **Elimination of reporting** into state human resources system

- Information Technology

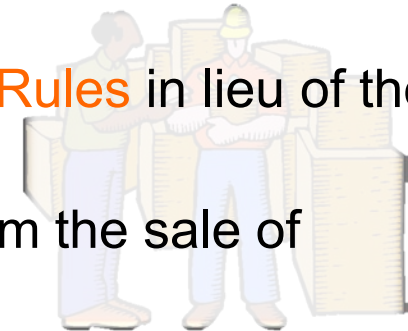
- **Exemption** from Virginia Information Technologies Agency (**VITA**) and Information Technology Investment Board (**ITIB**)



Virginia Tech Management Agreement

Administrative Authorities Received

- Procurement and Surplus Property
 - Substitutes a uniform set of **Procurement Rules** in lieu of the Virginia Public Procurement Act
 - Allows institution to **retain all proceeds** from the sale of recycling and **surplus** property
 - Authority to operate a separate automated **procurement system**
- Real Estate and Leasing
 - Enter into an **operating/income lease or capital lease**
 - **Grant or convey easements** on any land owned or controlled by the institution
 - Acquire easements across non-institution land



Restructuring Authority—State Departures

- **Finance**

- Statewide accounting system
- Deferred distribution of E&G interest earnings and credit card rebate
- Capture of Auxiliary interest earnings
- Attempted reversion of 5% of Auxiliary reserve fund balances
- Oversight of NGF appropriations
- Retention and capture of NGF rate savings
- Required Commonwealth Accounting and Reporting System (CARS) reporting

Restructuring Authority—State Departures

- **Finance (continued)**
 - Restrictions/guidance on tuition and fee setting
 - Assignment of state costs to University
 - Capital Fee increases to students

Restructuring Authority—State Departures

- **Information Technology Infrastructure and Academic Research Computing**
 - Outsource contract for state computing needs
 - Higher education is not currently included
 - VITA may expand scope of existing contract and move to incorporate higher education

Restructuring Authority—State Departures

- **Statewide Enterprise System Initiatives**
 - Current state financial systems are out of date
 - EVa—first system overhaul initiative
 - Emerging Ideas and Strategies
 - Statewide data standards
 - Push for complete transparency
 - Potential Implications for Virginia Tech
 - User-charges for state systems
 - Potential to decommission existing systems

Governor's Commissions

Governor's Commission on Government Reform and Restructuring

- Uses tax dollars in most efficient manner
- Conduct a comprehensive, systematic, and ongoing evaluation of state services and operations
- Reduce the size of government where appropriate

Governor's Commission on Government Reform and Restructuring (continued)

- The Commission will **conduct a thorough review** of Virginia state government:
- Identify **opportunities for creating efficiencies** in state government, including **streamlining, consolidating, or eliminating redundant and unnecessary** agency services, governing bodies, regulations and programs;
- Explore **innovative ways to deliver state services** at the lowest cost and best value to Virginia taxpayers;
- Seek out means to **more effectively and efficiently perform core** state functions, including potential privatization of government operations where appropriate, and **restore focus on core mission oriented service**; and
- Examine ways for state government to **be more transparent, user friendly and accountable** to the citizens of the Commonwealth.

Governor's Commission on Higher Education Reform, Innovation, and Investment

- Preserving and enhancing the instructional excellence of Virginia's leading universities and of the higher education system as a whole;
- Increasing significantly the percentage of college-age Virginians enrolling in institutions of higher education and attaining degrees;
- Attracting and preparing young people for the STEM (science, technology, engineering, and math) areas and other disciplines (e.g., healthcare and advanced manufacturing) where skill shortages now exist and/or unmet demand is anticipated;

Governor's Commission on Higher Education Reform, Innovation, and Investment (continued)

- Forging effective **public-private partnerships** and regional strategies for business recruitment, workforce preparation, and university-based research;
- Making Virginia a **national leader** in providing **higher education** opportunities to military personnel and veterans;
- Crafting a **sustainable higher education funding model** that will systematically move Virginia toward higher levels of educational attainment and economic competitiveness over the next decade-and-a-half; and
- Developing **innovative ways to deliver quality instruction, cost-saving reform strategies, and affordable new pathways** to degree attainment for capable Virginians regardless of income or background.

Potential Impacts of Commissions to Higher Education in Virginia

- Funding Model
- Tuition and Fee guidance
- Duplication of effort and cost containment
- Research and Economic Development funding
- In-state and Out-of-state residency enrollment mix
- Further Enhancement of Restructuring/Decentralization Initiatives

Operating Environment and Accountability

Accountability and Reporting

Board of Visitors

- **Audits—External and Internal**
- **Planning Activities**
 - Six-year Strategic Plan
 - Six-year Financial Plan
 - Six-year Enrollment Plan
- **Performance Measures**
 - Strategic Plan – Scorecard
 - Restructuring Act – IPS
 - Restructuring Act – Additional Asks



Accountability and Reporting

- Budget and Financial Reports
 - External Budget Reports
 - Financial Performance Report
 - Related Corporations' Affiliation Agreement

Audit Activities at Virginia Tech

Internal Audit

- Internal Audit Department
- Reporting Relationship to Board of Visitors
- Internal Audit Plan
- Types of Audits:
 - Planned, risk-based audits
 - Compliance reviews
 - Fraud, waste, and abuse reviews



External Audit

- Auditor of Public Accounts
 - Reports to the General Assembly
 - Types of Audits
 - University's financial statements
 - State-wide targeted audits
 - Federal Single Audit (for Virginia)
- Federal auditors

Questions?

Raymond D. Smoot, Jr.

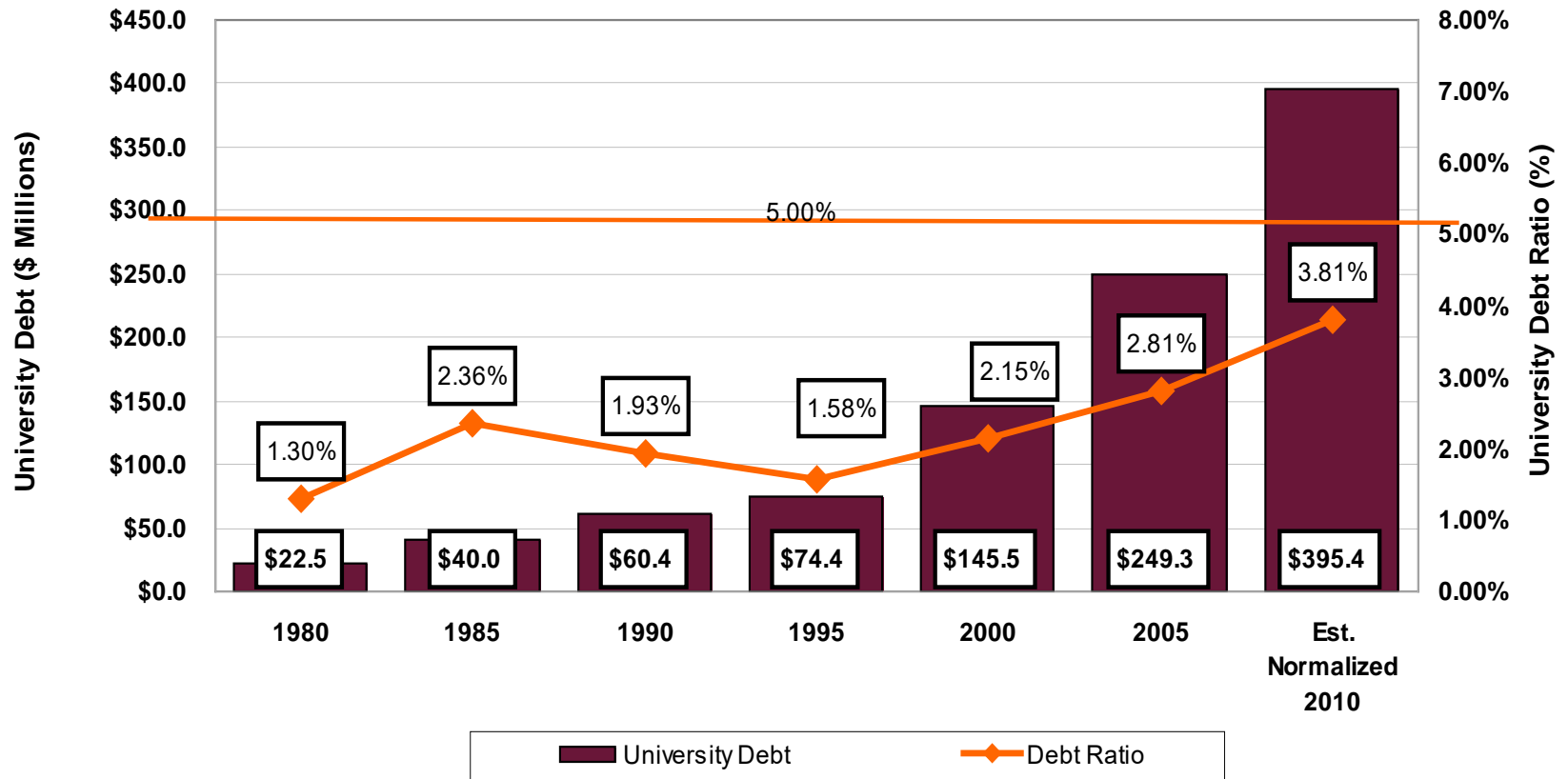
***Chief Operating Officer – Virginia Tech Foundation, Inc. and
University Treasurer – Virginia Tech***

UNIVERSITY DEBT UNIVERSITY-RELATED CORPORATIONS

**Virginia Tech Board of Visitors
August 29, 2010**

University Debt

Outstanding University Debt and Debt Ratio



University-Related Corporations

Virginia Tech Foundation, Inc.

- Receive, manage, and disburse private gifts and assets on behalf of the university; undertake major projects as requested by the university

Virginia Tech Services, Inc.

- Operate bookstores vending; provide supplies to the university community

Virginia Tech Intellectual Properties, Inc.

- Protect, license, and otherwise commercialize intellectual properties originating within the university

Virginia Tech Athletic Fund, Inc.

- Raise private contributions in support of athletic scholarships, programs, and facilities

Virginia Tech Alumni Association, Inc.

- Facilitate communications between alumni, students, parents, faculty, and the public; coordinate and promote alumni chapter activities and alumni events

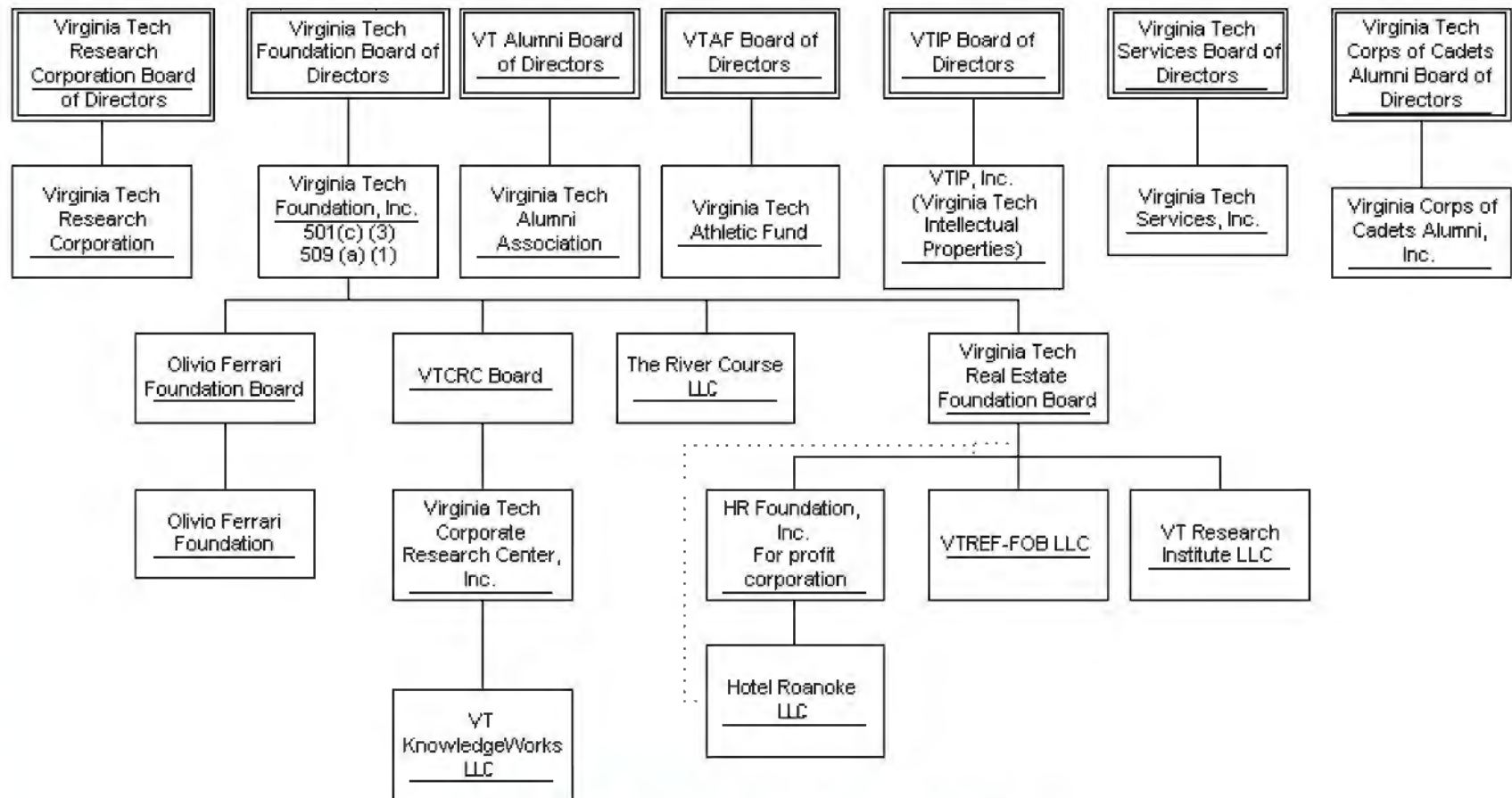
Virginia Tech Corps of Cadets Alumni, Inc.

- Promote and enhance the Corps program by raising scholarship funds

Virginia Tech Research Corporation, Inc.

- Provide research and contract services supporting innovative applications of science and technology.

University-Related Corporations of Virginia Polytechnic Institute and State University



Overview

Affiliation Agreements

- Corporation is separate from and operates independently of the university; university is not liable for contracts entered into by the Corporation or the any acts or omissions of the Corporation
- Corporation shall review with the university its annual budget and long-term programmatic plans and shall distribute surplus revenues as determined in conjunction with the university's CFO
- Corporation will not distribute any assets or proceeds thereof other than in the ordinary course of business without prior consent of the university
- Corporation shall convey upon written request of the university any interest in real property owned by the Corporation
- Corporation shall provide benefit and compensation plans as nearly as practicable to that of the university
- Corporation may not conduct fundraising activities without prior consent of the university

Affiliation Agreements

- Corporation shall have an annual audit and provide the university with financial statements, management letters and responses
- Corporation will file timely all required tax reporting and provide the university with copies of tax reporting forms
- Corporation will follow university's EOAA statement
- Corporation is eligible to utilize university facilities, resources, and services and shall reimburse the university for services provided
- Agreement applies to all subsidiary corporations and LLCs of the Corporation
- Upon directive from the Board of Visitors, the Corporation must cease operations and distribute its assets to the university or the university's designee

Report on Audits of University-Related Corporations

FINANCE AND AUDIT COMMITTEE

In accordance with the resolution passed by the Finance and Audit Committee on April 25, 1985, and as amended on November 13, 1995 and March 31, 2008, each University-related corporation is required to provide the University's President audited annual financial statements, management letters from the external auditors, management's responses thereto, and an annual certification that all procedures outlined in the resolution have been met. These financial statements, management letters, and management responses have been reviewed and found to meet the standards set forth in the audit resolution.

VIRGINIA TECH CORPORATIONS COMPLIANCE WITH AUDIT RESOLUTION

Corporation	Audited Financial Statement	Management Letter	Response to Management Letter	External Auditor Length of Service	Certification Letter
VT Foundation, Inc.	✓	¹	¹	³	✓
VT Intellectual Prop., Inc.	✓	¹	¹	³	✓
VT Services, Inc.	✓	¹	¹	³	✓

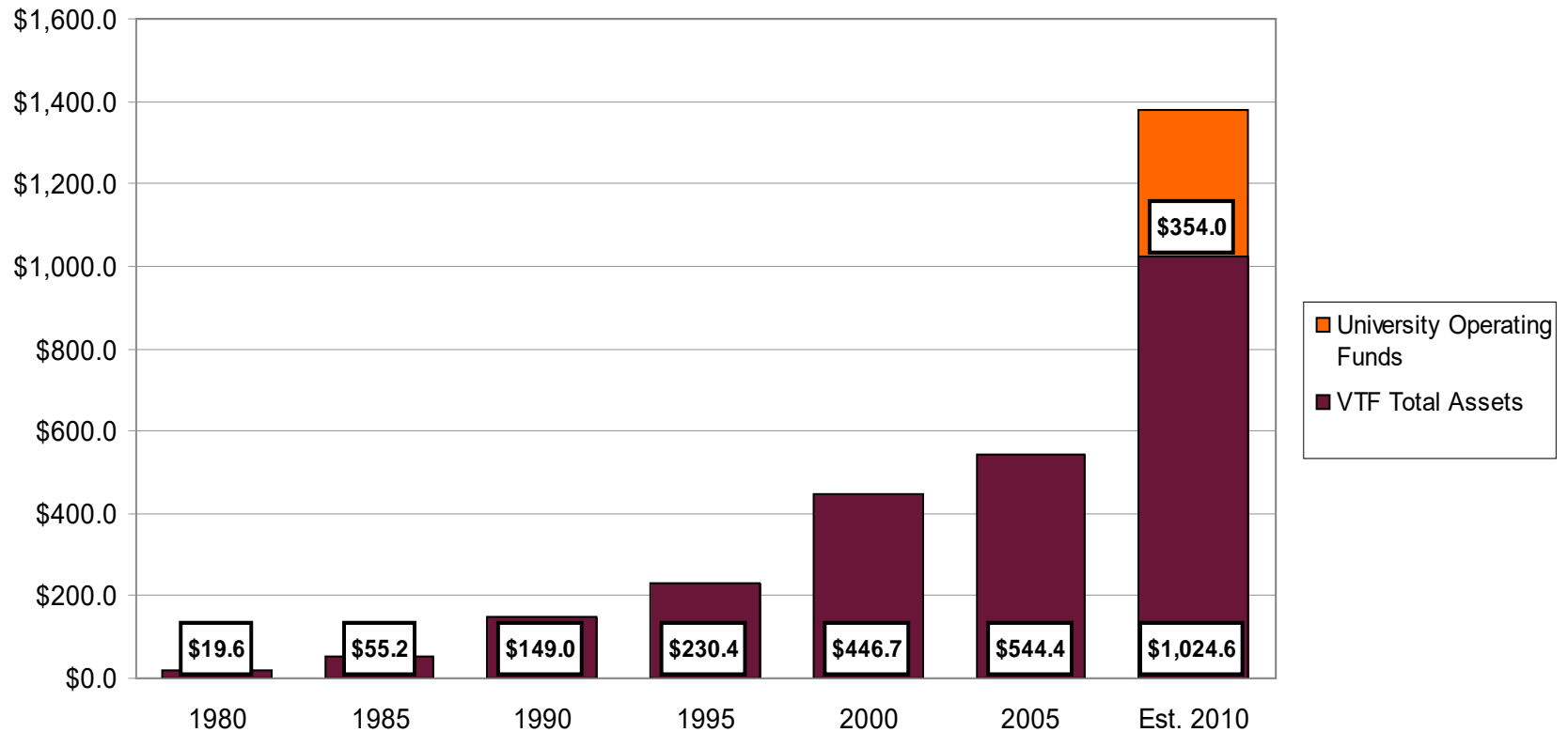
¹ No management recommendations resulted from the audit.

² A management letter was issued. Responses to this management letter were submitted.

³ Corporation using same audit firm as in years past; management team has been rotated within the past five years in accordance with the audit resolution

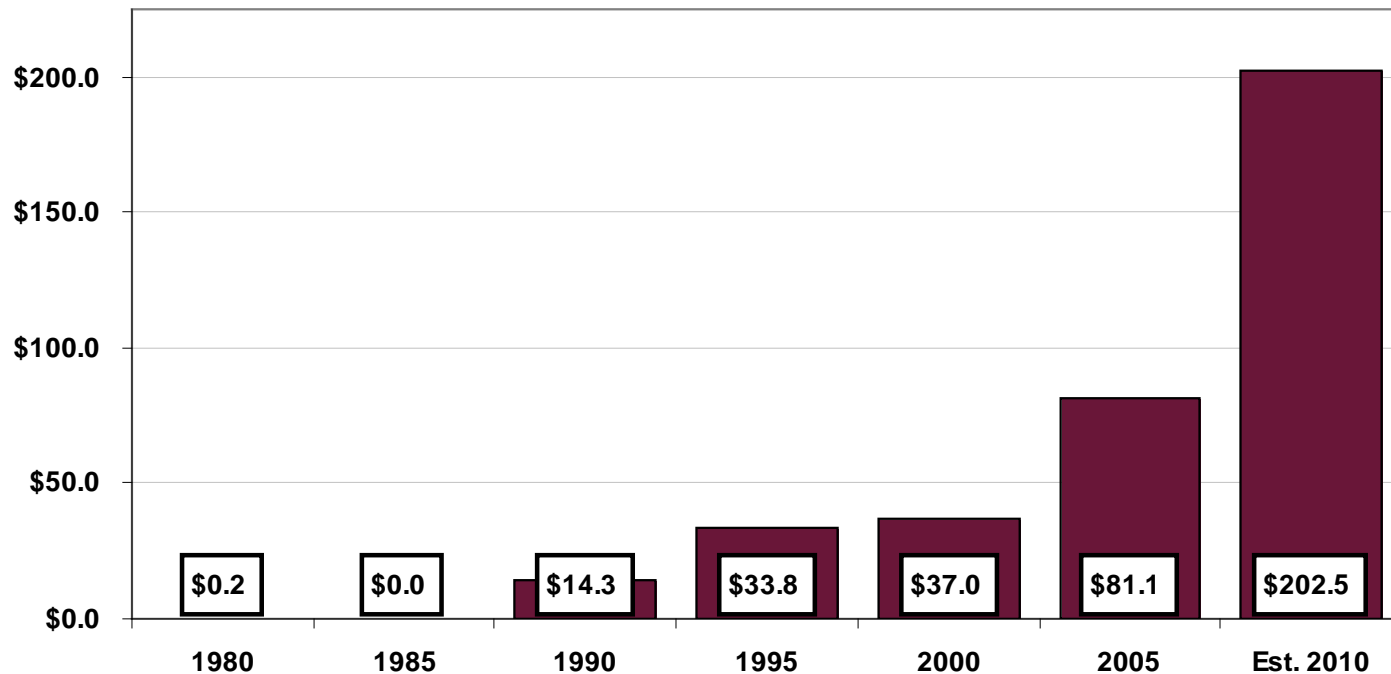
Virginia Tech Foundation Assets

VT Foundation Total Assets and
University Managed Funds
(\$ Millions)



Foundation Debt

Outstanding Foundation Debt
(\$ Millions)



River Course



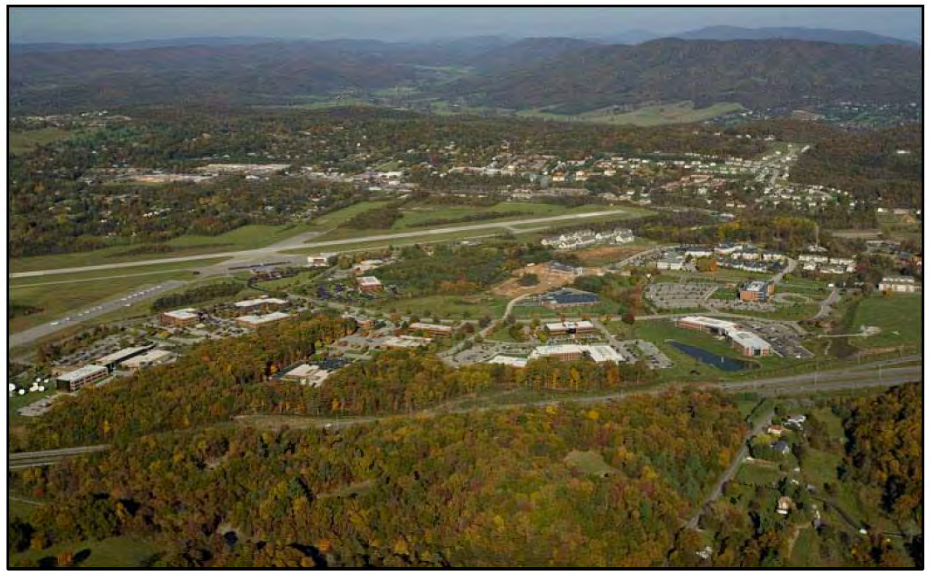
CESA



Hotel Roanoke



VTCRC

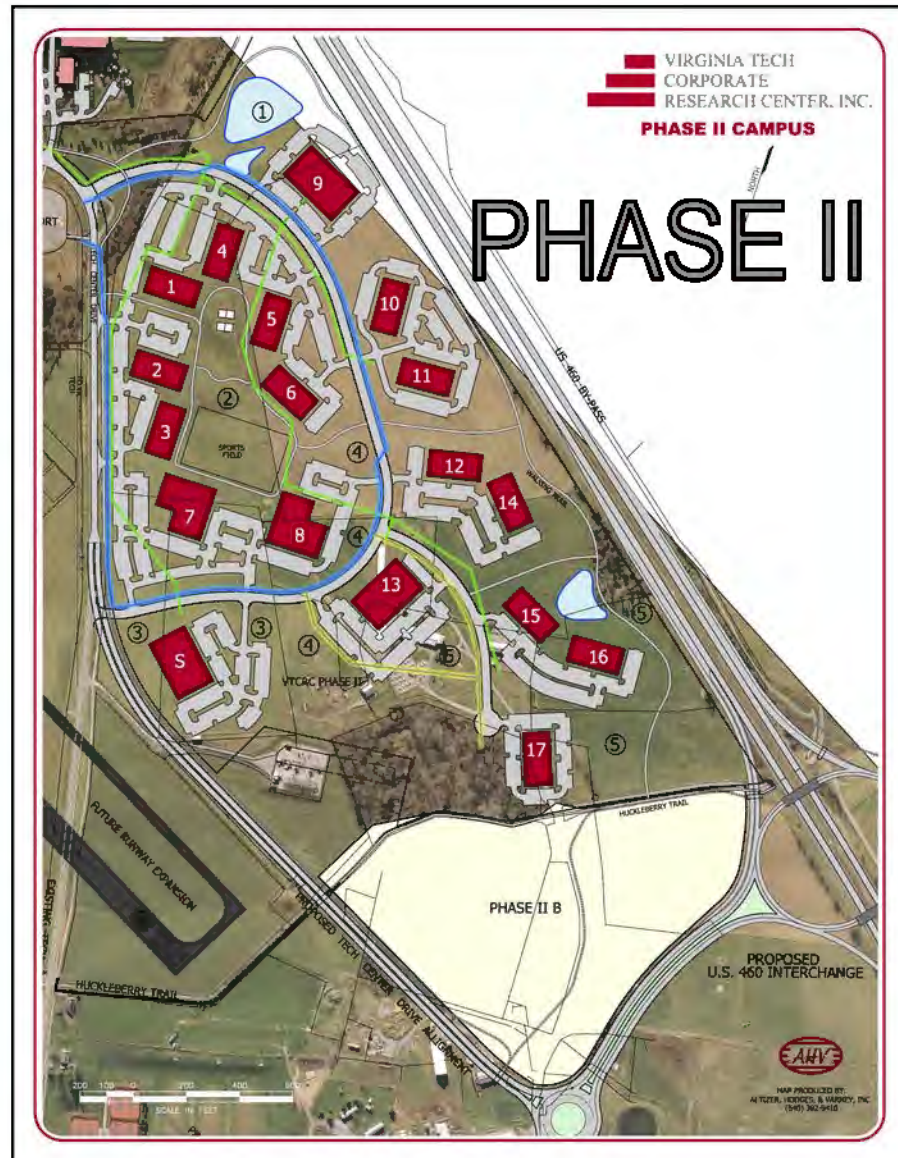


ICTAS



ILSB

VTCRC



NCR



TURNER
STREET



COLLEGIATE
SQUARE



Endowment Management

Asset Allocation

- Global Equities 34.6%
- Real Assets 8.6%
- Marketable Alternative Assets 21.8%
- Non-Marketable Alternative Assets 22.4%
- U.S. Bonds 12.6%

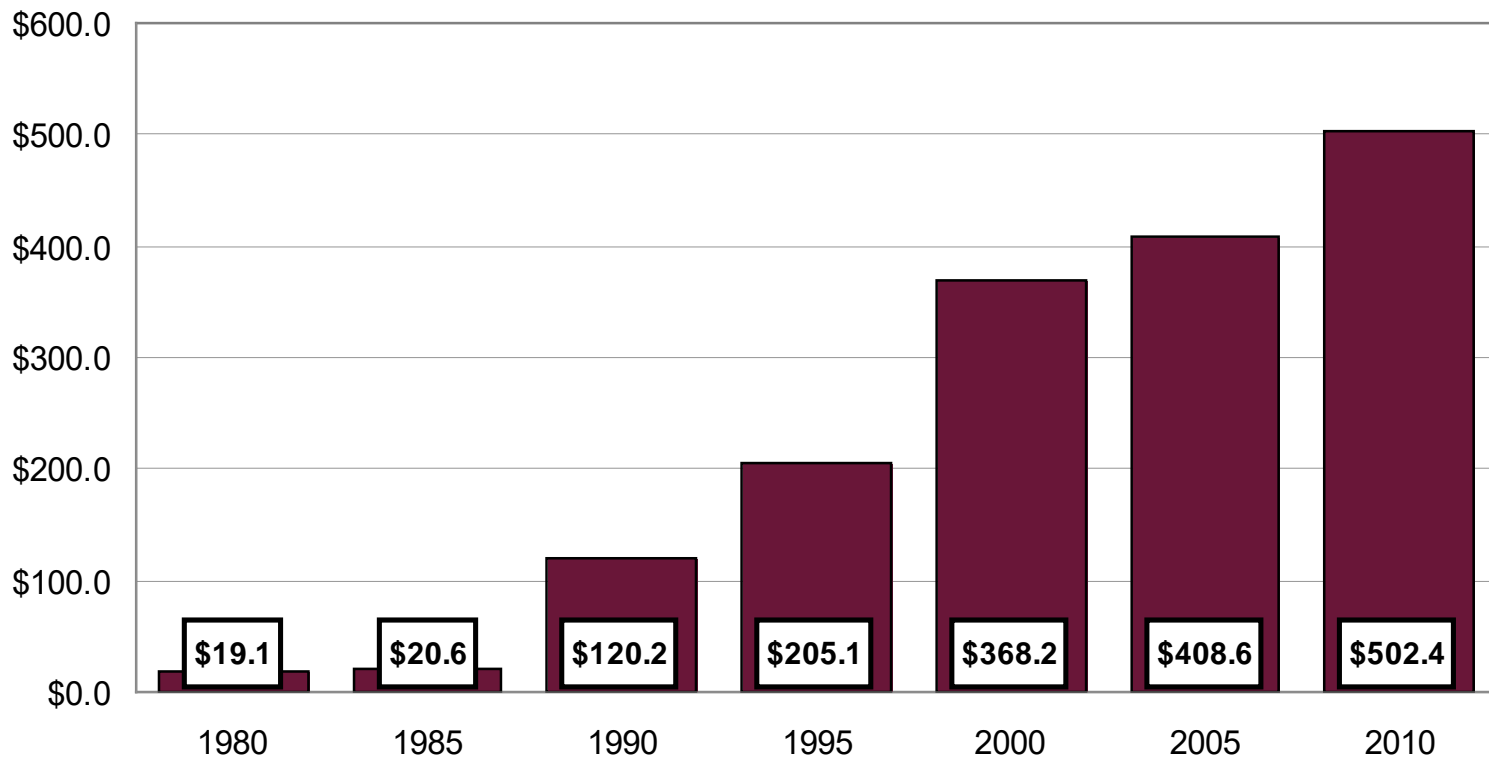
Endowment Management

Endowment Performance-Yr Ending 6/30/10

- One-Year 11.9%
- Three-Year -2.3%
- Five-Year 4.0%

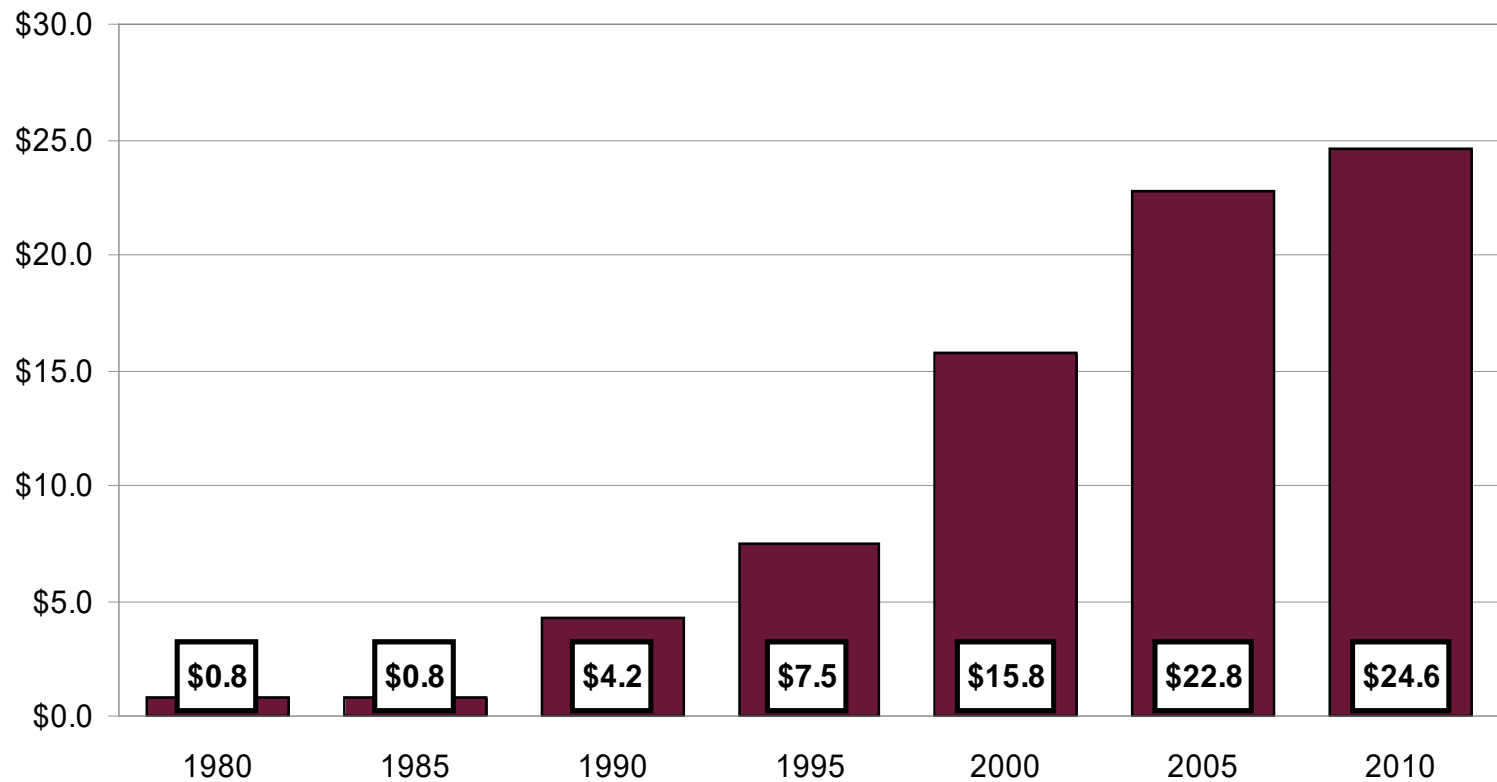
Endowment Management

**Endowment Market Value
(\$ Millions)**



Endowment Management

Endowment Payout
(\$ Millions)



c a u s

a recitation on education
through research



[illegible]

SOPAC

Performing Arts

Music

Contemporary

CCTAD

VDS4

BFA Studio

BFA Visual Communication

BFA Art History

BFA Intellectual Culture

BFA

Taiwanese Museum of Art

Proposed Center for the Arts SOPAC-SOA

GALLERIES

KITZ

Authority

Perspective

(Programs)

ALLIANCE

SCHOLARSHIPS

DEVELOPMENT

EXHIBITIONS

SCHOLARSHIPS

DEVELOPMENT

ALLIANCE

Environmental Sustainability

National Fellowship Program

GW University

No Profit Organizations

Washington Semester

National Endowment for Democracy

Internships

Consortium Schools

- Cal Poly
- Oxford Poly
- Texas A&M
- ISU
- Mexico

Collaborative Agreements

- Argentina
- Ecuador
- Chile
- Ethiopia
- Germany

Programs

PROFESSIONAL ORGANIZATIONS

ALUMNI

PROFESSIONAL & GOVERNMENTAL OFFICES

DEVELOPMENT

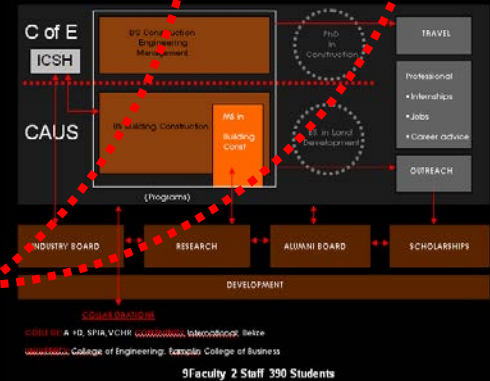
OUTREACH

- National/ Intl Competitions
- Salary Deceitment
- Civic Boards
- Awards

COLLABORATIONS: COLLEGE, UNIVERSITY, NATIONAL, INTERNATIONAL

International Education & Community Outreach

MYERS-LAWSON SCHOOL OF CONSTRUCTION



Wash Seminar

Edu. Abroad

JMI

VCHR

PIA

AUPP

MPIA

EPP

Peace Corp

MPP

P.L. Planning Governance & Globalization

IAP

GIA

PhD-CP-IP

APA

Richmond

CPAF

IP6

In Your Outreach RST

ICH

Centers

RESEARCH

ALUMNI

DEVELOPMENT

Professional

COLLABORATIONS

COLLEGE: Landscape Arch, Real Estate, BC, Landscape Architecture

UNIVERSITY: CLAHS: Political Science, ASPECT, University Outreach

PABIC: Brookings Institute, Government Agencies, Non-Profit organizations, UIU

NCR

54 Faculty 5 Staff 500 Students

[illegible]

Digital Data, Art & Visualization

College of Architecture and Urban Studies

School of Architecture + Design

Architecture
Industrial Design
Interior Design
Landscape Architecture

Community Design Assistance Center

Myers-Lawson School of Construction

Building Construction

Construction Engineering Management

School of Public & International Affairs

Center for Public Administration & Policy
Government and International Affairs
Urban Affairs and Planning

Metropolitan Institute

School of Visual Arts

Art History
Studio Art
Visual Communication
Visual Design Studio, VDS4

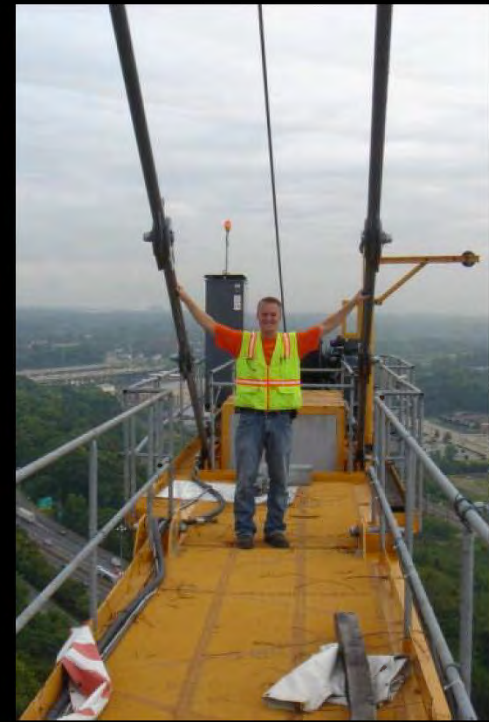
Undergraduate Degrees

Bachelor of Architecture
Bachelor of Science in Industrial Design
Bachelor of Science in Interior Design
Bachelor of Landscape Architecture

Bachelor of Science Degree in Construction
Engineering and Management
Bachelor of Science in Building Construction

Bachelor of Science in Environmental Policy
and Planning
Bachelor of Arts in Public and Urban Affairs

Bachelor of Arts in Art History
Bachelor of Fine Arts in Visual Communication
Design/Graphic Design
Bachelor of Fine Arts in Studio Arts



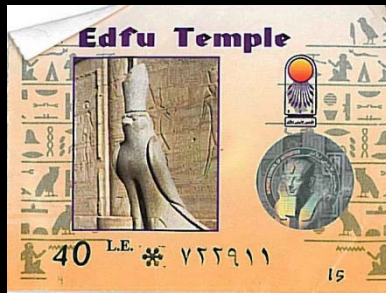
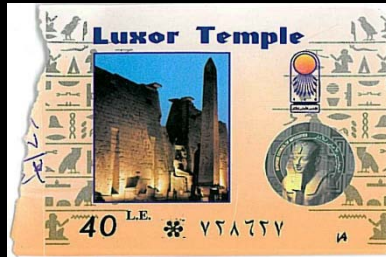
Who we are





What We Do





Where We Go



INTERNATIONAL EDUCATION



Architecture Building, University of Astral, Chile



Resources

Research Facilities
Remote Campuses
CNC Milling machines
Large Format-
Plasma Cutter
Laser CAM
3D Printer
Woodshop
Metal Shop
Plastic Shop
Vacuum-Form
Graphics Lab
Photo Labs
Input/Output Labs
3D Scanner
Print Labs
Pottery Studio
Ceramics Studio
Paint Lab
Plaster Studio
Library
And More...!



10th
Annual

DesignIntelligence®

America's Best Architecture & Design Schools

Leading Practitioners Rank the Schools Best Preparing
Students for Practice in Architecture, Interior Design,
Landscape Architecture, Industrial Design

All About Accreditation

The Architect Registration Examination

An Envable Design Portfolio

2009



College of Architecture and Urban Studies
Research + Demonstration Facility





U. S. Design Patents, No. 431,946, No. 432,330, No. 432,340, No. 435,375



U. S. Design Patents, No. 431,946, No. 432,330, No. 432,340, No. 435,375

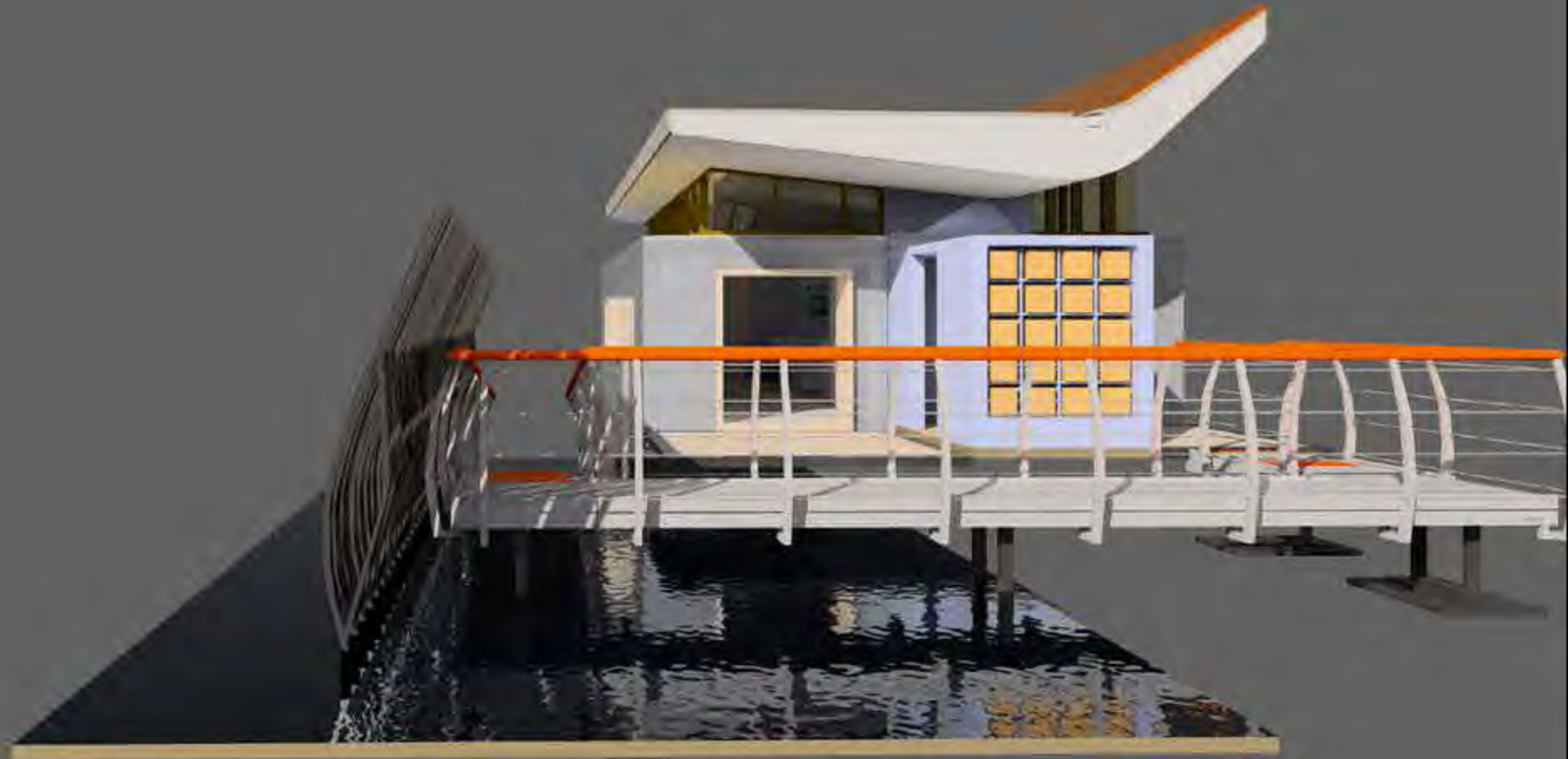


Solar Decathlon 2002





2005



Winner of Student Design Competition - Spring 2004









Ut Prosim





Belize, Central America



Habitat for Humanity



Dominican Republic



Ghana, Africa





Design-Build Service Learning Studio



Habitat for Humanity – New River Valley







Building Museum, Washington, DC



Solar Decathlon Washington Mall– October, 2009



Times Square – January 28, 2010



EU Solar Decathlon Madrid, Spain– June, 2010



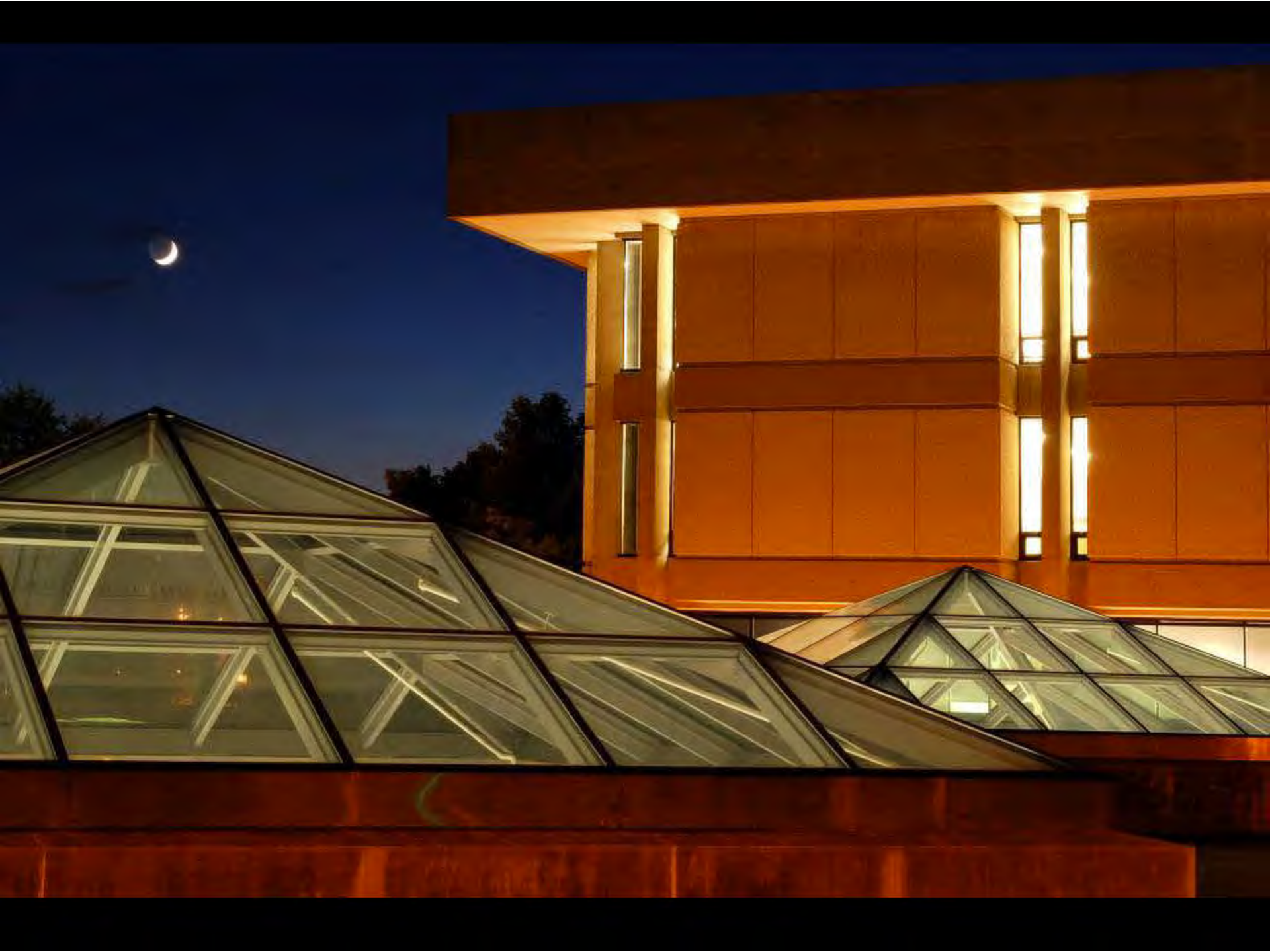
caus

College of Architecture
and Urban Studies MAGAZINE

2010



www.caus.vt.edu



caus

The Virginia Tech College of Engineering



Presentation by Richard C. Benson
Dean of Engineering and Torgersen Chair

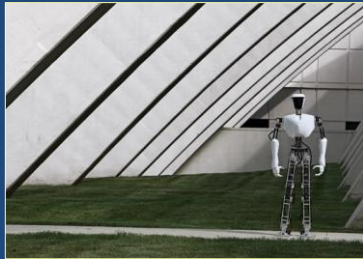
13 Departments and 2 Schools



- Aerospace & Ocean Engineering
- Biological Systems Engineering
- Biomedical Engineering
- Chemical Engineering
- Civil & Environmental Engineering
- Computer Science
- Electrical & Computer Engineering
- Engineering Education
- Engineering Science & Mechanics
- Industrial & Systems Engineering
- Materials Science & Engineering
- Mechanical Engineering
- Mining and Minerals Engineering
- School of Biomedical Eng. & Sciences
- Myers-Lawson School of Construction

Seven Goals in 2010/11

1. Accommodate the largest entering engineering class in the nation.
2. Increase the diversity of the college.
3. Hire a new department head (EngE) and associate dean (R&GS).
4. Continue our excellent reputation for undergraduate education.
5. Accelerate our research activity and advising of doctoral students.
6. Enrich our strategic partnerships with institutions around the world.
7. Exceed the fundraising goals set for the college.



CHARLI

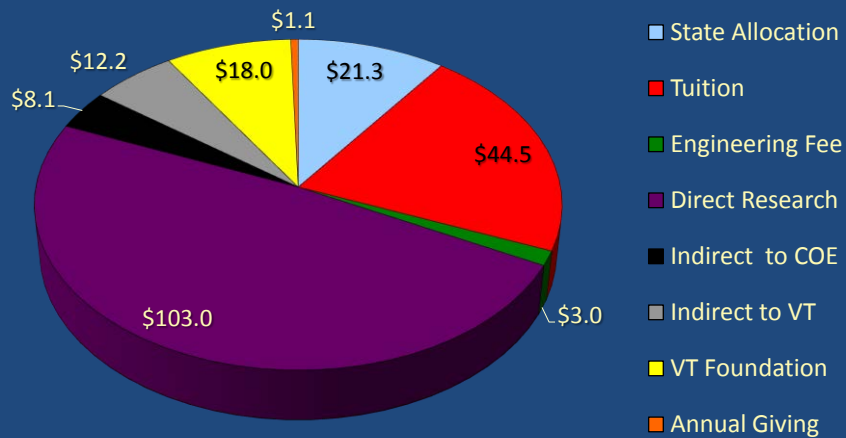
RoMeLa's life-sized soccer playing robot



LUMENHAUS

2010 European Solar Decathlon winner

The College of Engineering is a \$212M Enterprise



All figures in millions, FY 2010.

Engineering Fee



AOE: Old Wind Tunnel



AOE: Upgraded Wind Tunnel



CEE: Old Soil Mechanics Lab



CEE: New Soil Mechanics Lab

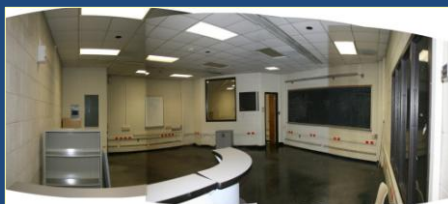
Engineering Fee



BSE: Old Unit Ops Lab



BSE: New Unit Ops Lab



CS: Old Active Learning Lab



CS: New Active Learning Lab

Center for the Enhancement of Engineering Diversity

Thanks to the recruiting and mentoring programs of CEED, our entering and graduating classes are growing more diverse.



Bev Watford,
CEED Director,
2008 WEPAN
Founders Award

COE Freshman Class Demographics

	Fall 2005	Fall 2010	Change
All	1139	1593	40%
Men	961	1319	37%
Women	178	274	54%
Asian-American	98	178	82%
African-American	24	37	54%
Hispanic	21	74	252%
American-Indian	2	7	250%



Before they are Hokies

Imagination: A two-week day-camp for middle-school students that provides hands-on engineering activities.

Pre-College Initiative (PCI): Gives high school students opportunities to visit VT throughout the year and participate in both academic and social activities, including the "Spring Fling" as guests at the spring football game.

Computers & Technology at Virginia Tech (C-Tech²): A two-week residential camp for high school girls that provides hands-on engineering activities.

NASA Inspire: A partnership with NASA to give rising high school juniors a two week residential experience at VT to explore math, science & engineering.





About to become Hokies

Women's Preview Weekend: A weekend visit to campus to women offered early-admission to the College of Engineering.

Student Transition Engineering Program (STEP): Gives entering freshmen a five week "running start" in the summer between high school and Virginia Tech.



Graduating as Hokies!

Galileo: a residential learning community for first and second year men.

Hypatia: a residential learning community for first and second year women.

Peer Mentoring: links experienced upper-class engineering students with groups of 5-7 first-year students.



Teaching with Technology

Nominated by Fujitsu, the VT College of Engineering received a Laureate Medal at the 2007 Computerworld Honors Program for its first-in-the-nation adoption of tablet-PCs in the curriculum and use in outreach.



Tom Walker

Glenda Scales

Hands On / Minds On Education

We place great emphasis on active learning. Here are a few examples of the successful student design teams that work at the Ware Lab.

Steel Bridge Competition



Human Powered Sub



Mini Baja



Formula SAE



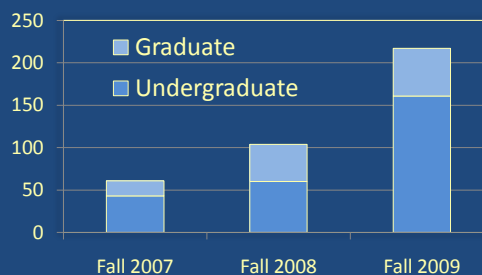
Blind Driver Challenge



Nuclear Engineering

Interest in our nuclear engineering program is growing rapidly.

We are now among the 15 largest NE programs in the country.



The majority of the grad students are working engineers, taking classes off-campus in Lynchburg and Newport News.

New support from the NRC and DOE is permitting us to create new course offerings and to hire a cluster of new nuclear engineering faculty members.

Intelligence Center



Jeff Reed and Tamal Bose



Virginia Tech has teamed with Howard University and the Office of National Intelligence to form an Intelligence Community Center of Academic Excellence. It is the first to have an engineering thrust. Undergraduate and graduate students will be produced with core skills in technology, foreign languages, and knowledge of various cultural, ethnic and regional communities.

Veterans@VT

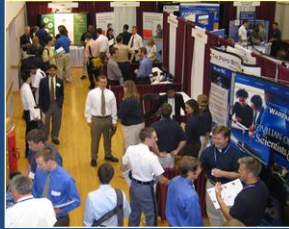
Professor Mary Kasarda has NSF funding to develop a pilot graduate program in the Department of Mechanical Engineering for returning veterans.

The program will develop innovative new graduate degree programs in mechanical engineering that are customized to the needs and strengths of veterans, and it will help them in their transition to civilian life. We expect many will find jobs with defense contractors.

When completed, the program will be transferable to other departments and universities. This is part of the "New G.I. Bill of Rights," spearheaded by Virginia Senator Jim Webb. Funding was made available by the American Recovery and Reinvestment Act.



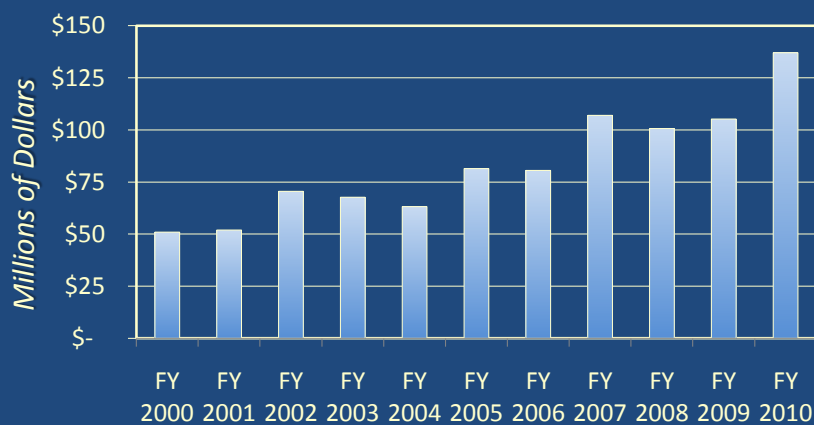
The Engineering Expo



The VT Engineering Expo is one of the largest career fairs in the country. The high demand for our graduates is a measure of our success as educators.

The Student Engineers' Council, which runs the Engineering Expo, is the most philanthropic student council in the country. Using Expo proceeds they are building an endowment of \$500,000 to reinvest in student design teams.

Research Growth – New Awards



We have achieved 10% annual growth for a decade. According to the NSF, we are now the 10th ranked engineering college for research spending. We have moved up 3 places in 3 years, past Stanford, Illinois and Ohio State.

NSF Career Awards



We have had *extraordinary* success in attracting NSF Career Awards and **PECASE** Awards. Pictured are the awardees from 2006 to the present.

At the top of their profession!



Roe-Hoan Yoon, National Academy of Engineering

Marc Edwards, MacArthur "Genius" Grant

Arun Phadke & Jim Thorp, Franklin Medal, Electrical Engineering

School of Biomedical Engineering & Sciences

Our partnership with Wake Forest and the School of Veterinary Medicine is thriving!

Research expenditures for VT-SBES faculty members totaled \$1.1M in FY 2003. That number had risen to \$9.4M in FY 2010. Wake Forest adds about another \$4M to the research total.

We are seeking to create a new B.S. degree in biomedical engineering at Virginia Tech, also in partnership with Wake Forest.

The Crash Sled Lab opened at VCOM II in September 2009. →



Rolls-Royce

As a result of the decision by Rolls-Royce to build a new jet engine manufacturing plant in Prince George County, the College of Engineering will receive 3 endowed chairs, \$2 million in support for lab renovations, graduate fellowships, and resources for international programs. Virginia Tech and the University of Virginia will partner with Rolls-Royce on two centers devoted to aerospace propulsion systems and advanced manufacturing.

Governor Tim Kaine said that bringing Virginia Tech and the University of Virginia aboard the future corporate campus was key: *"I learned something in working with Rolls-Royce. The most precious asset in the world ... is brainpower. ... They are going to be at the table at virtually every deal in the future."*



Rolls-Royce

As a result of the decision by Rolls-Royce to build a new jet engine manufacturing plant in Prince George County, the College of Engineering will receive 3 endowed chairs, \$2 million in support for lab renovations, graduate fellowships, and resources for international programs. Virginia Tech and the University of Virginia will partner with Rolls-Royce on two centers devoted to aerospace propulsion systems and advanced manufacturing.

Governor Bob McDonnell said : *"We believe now we can get major international suppliers of Rolls Royce to be able to come and locate in that 700-800 acre industrial park around the Rolls Royce project. I think that's going to be a magnet for aerospace business."*



National Tire Research Center

The NTRC, which will be located adjacent to the Virginia International Raceway in Halifax County, is a partnership between the Virginia Tech Transportation Institute, Department of Mechanical Engineering, College of Engineering, General Motors, Institute for Advanced Learning and Research, Southside Virginia Community, and the Tobacco Commission.

Funding for the center will total \$14 million with \$5 million provided by GM, \$5 million from the Tobacco Commission and \$4 million from Virginia Tech.

The NTRC will generate more than \$12 million in testing and research expenditures within five years and create up to 183 new jobs in the local economy by 2020. In addition, the NTRC will generate substantial new research and teaching opportunities for Virginia Tech faculty members.



Institute for Critical Technology and Applied Science

ICTAS-NCFL: The Nanoscale Characterization and Fabrication Lab opened in the Corporate Research Center in July 2007.

ICTAS-HQ: The ICTAS headquarters and home to the School of Biomedical Engineering and Sciences opened on Stanger Street in March 2009.

ICTAS-LS: The facility in the Life Sciences precinct is under construction and will open at the end of this year.

ICTAS-NCR: ICTAS will utilize 6,000 ft² in the new Ballston building.



International Programs

Through the office of Associate Dean Glenda Scales, we provide many programs and support services for out-of-country learning experiences.

- Faculty Led
- Bilateral Exchange
- Research
- Internship
- Lab/Design Classes
- Rising Sophomore Abroad
- Collaborative Degree
- Dual Degree



Global Classroom

Product Data Management, taught by Professor Jan Helge Bøhn, is simultaneously delivered to five universities in four countries. Students study *global* collaborative engineering and product data management. These topics are applied in a project with overseas team members.



Shanghai Jiao Tong University, China



Technical University at Darmstadt, Germany



Virginia Tech, Blacksburg VA

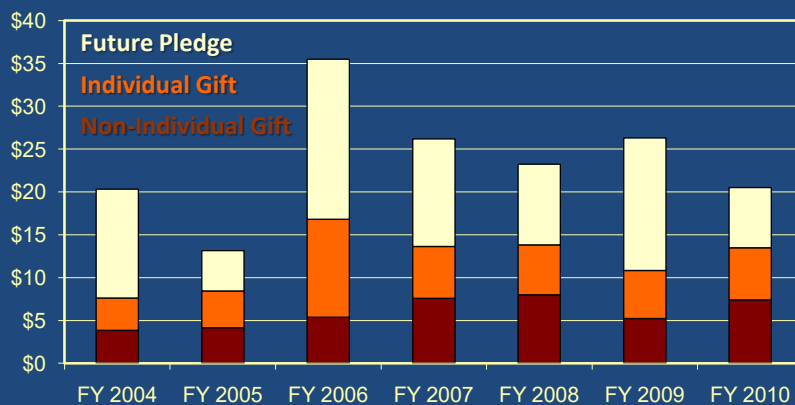


Howard University, Washington DC



Monterrey Tech, Mexico

Fundraising for the COE

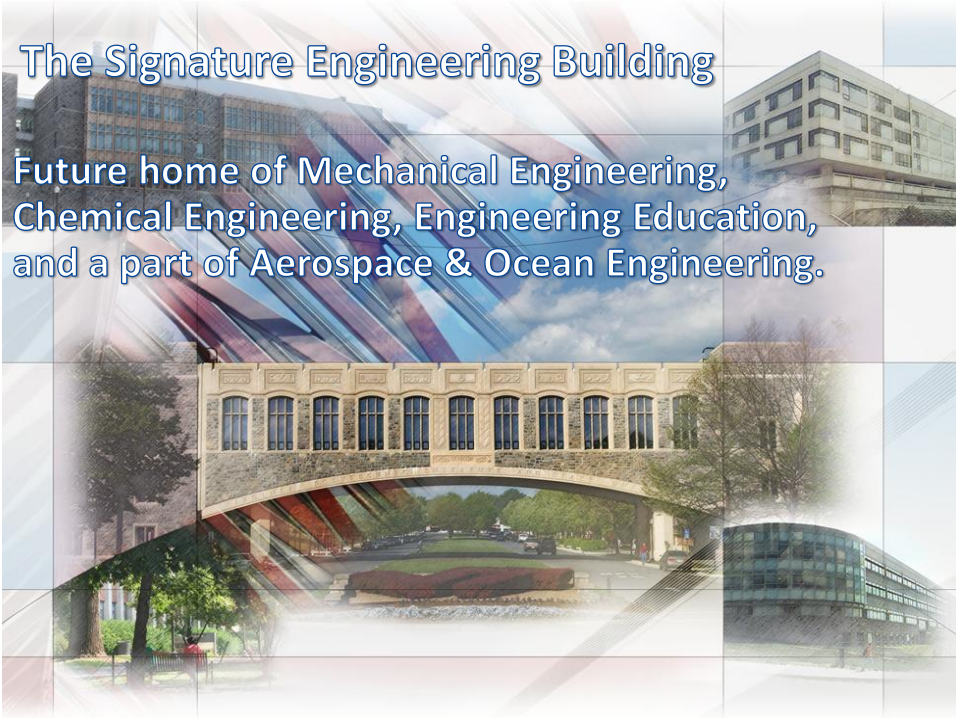


All figures in millions of dollars.

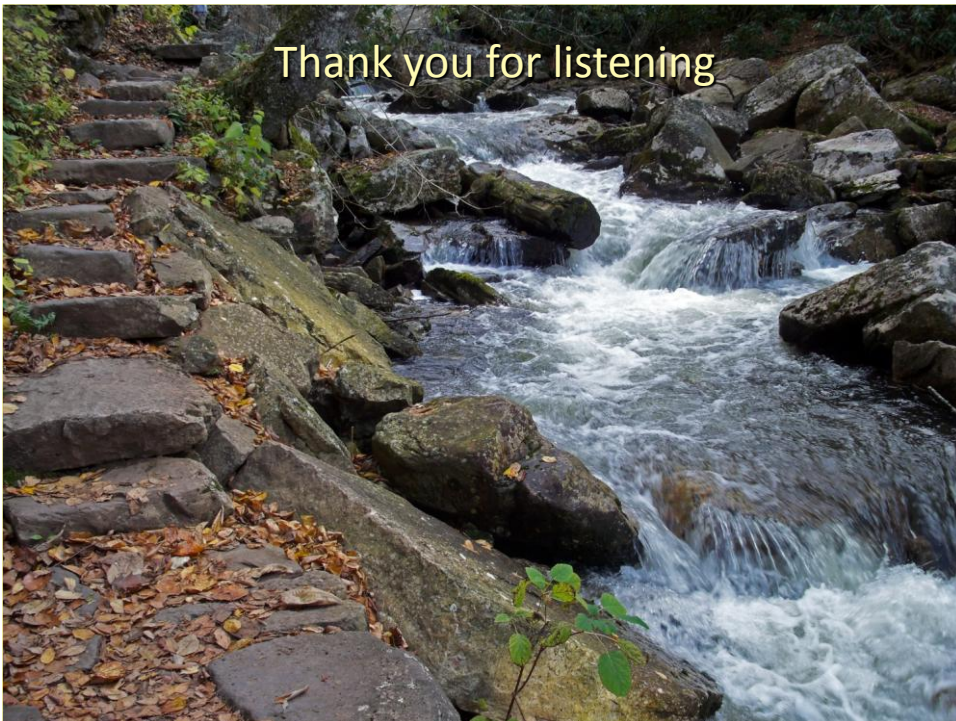
We have surpassed our \$155M goal in the *Campaign for Virginia Tech*.

The Signature Engineering Building

Future home of Mechanical Engineering,
Chemical Engineering, Engineering Education,
and a part of Aerospace & Ocean Engineering.



Thank you for listening



MINUTES

August 30, 2010

The Board of Visitors of Virginia Polytechnic Institute and State University met on Monday, August 30, 2010, at 1:15 p.m. in Torgersen Boardroom, Virginia Tech Campus, Blacksburg, Virginia.

Present

Mr. Michael Anzilotti
 Mr. Frederick J. Cobb
 Ms. Beverley Dalton
 Ms. Michele Duke
 Mr. Douglas R. Fahl
 Dr. Calvin D. Jamison, Sr.
 Ms. Sandra Stiner Lowe
 Mr. George Nolen (Rector)
 Ms. Suzanne Obenshain
 Mr. Michael J. Quillen
 Mr. John G. Rocovich, Jr.
 Mr. Paul W. Rogers, Jr.
 Dr. Michael Ellerbrock, President, Faculty Senate
 Ms. Maxine Lyons, President, Staff Senate
 Mr. Deepu George, Graduate Student Representative
 Mr. Shane McCarty, Undergraduate Student Representative

Absent

Mr. James W. Severt, Sr.
 Mr. William B. Holtzman

Also present were the following: Dr. Charles Steger, Mr. Erv Blythe, Mr. Ralph Byers, Ms. Shelia Collins, Dr. Gene Deisinger, Dr. Karen DePauw, Dr. John Dooley, Dr. Jack Finney, Dr. Elizabeth Flanagan, Chief Wendell Flinchum, Ms. Natalie Hart, Ms. Kay Heidbreder, Dr. Larry Hincker, Ms. Elizabeth Hooper, Dr. William Lewis, Ms. Heidi McCoy, Ms. Sharon Kurek, Dr. Mark McNamee, Dr. Ed Murphy, Ms. Kim O'Rourke, Mr. Mark Owczarksi, Dr. Ellen Plummer, Dr. Karen Eley Sanders, Mr. Dwight Shelton, Ms. Sandra Smith, Dr. Raymond Smoot, Dr. Ed Spencer, Mr. Jeb Stewart, Dr. Tom Tillar, Dr. Robert Walters, Ms. Melinda West, Dr. Lisa Wilkes, Ms. Mekeisha Williams, Dr. Sherwood Wilson, Dr. Daniel Wubah, faculty, staff, students, guests, and reporters.

Rector Nolen – Introduction of New Board Members, Faculty Senate President, and Student Representatives

Rector Nolen announced the 2011 meeting dates:

March 27-28, 2011
 June 5-6, 2011
 August 28-29, 2011
 November 6-7, 2011

Rector Nolen asked for a motion of approval of the minutes of the June 7, 2010, as distributed. The motion was made by Ms. Duke and seconded by Mr. Fahl. The minutes were approved.

REPORT OF THE ACADEMIC AFFAIRS COMMITTEE

Rector Nolen called on Ms. Lowe for a report of the Academic Affairs Committee. (Copy filed with the permanent minutes and marked Attachment A.)

As part of the Academic Affairs Committee report, the following resolution was moved by Ms. Lowe, seconded by Ms. Duke, and approved unanimously.

Resolution to Make Permanent the Research Committee of the Board of Visitors

That the Board of Visitors' by-laws be amended as described above to make permanent the standing Research Committee and to give the Rector the authority to appoint the membership and chair of the Research Committee. (Copy filed with the permanent minutes and marked Attachment B.)

As part of the Academic Affairs Committee report, the following resolution was moved by Ms. Lowe, seconded by Ms. Duke, and approved unanimously.

Resolution to Ratify the *Faculty Handbook* Changes for 2010

That the August 2010 version of the *Faculty Handbook* be ratified by the Board of Visitors and made effective August 10, 2010. (Copy filed with the permanent minutes and marked Attachment C.)

REPORT OF THE BUILDINGS AND GROUNDS COMMITTEE

Rector Nolen called on Mr. Fahl for a report of the Buildings and Grounds Committee. (Copy filed with the permanent minutes and marked Attachment D.)

Mr. Fahl reported that at the close of the committee meeting, Dr. Wilson made the committee aware that the Campus Design Principles, approved at the June 2010 Board meeting, were recently updated to correct an inaccuracy in the Historical Overview section that referred to a resolution passed by the Board in the 1990s requiring Hokie Stone. Although it was the clear intent of the Board in the 1990s that Hokie Stone continue to be the predominant stone on campus buildings, an extensive search of Board minutes from 1980 to present day revealed that an official resolution requiring Hokie Stone was not passed by the Board. Consequently, the Principles have been amended to read:

But Hokie Stone prevailed, and in the 1990's the Board of Visitors reaffirmed their desire for its continued usage in all buildings constructed from that time forward.

Mr. Fahl noted that the issue of the continued usage of Hokie Stone will be discussed again at the November meeting.

* * * * *

As part of the Buildings and Grounds Committee report, the following resolution was moved by Mr. Fahl, seconded by Ms. Duke, and approved unanimously.

Resolution for Approval to the Regional 911 Emergency Communications Center

That the resolution recommending Sherwood G. Wilson, Vice President for Administrative Services, be appointed as the University's representative to the Regional 9-1-1 Emergency Communications Authority be approved, effective immediately. (Copy filed with the permanent minutes and marked Attachment E.)

* * * * *

As part of the Buildings and Grounds Committee report, the following resolution was moved by Mr. Fahl, seconded by Ms. Duke, and approved unanimously.

**Resolution for Approval of Appointment to
Blacksburg-Christiansburg-VPI Water Authority**

That the resolution reappointing Sherwood G. Wilson, Vice President for Administrative Services, as the University's representative to the Blacksburg-Christiansburg-VPI Water Authority for a four-year term through August 31, 2014, be approved. (Copy filed with the permanent minutes and marked Attachment F.)

* * * * *

As part of the Buildings and Grounds Committee report, the following resolution was moved by Mr. Fahl, seconded by Mr. Anzilotti, and approved unanimously.

Resolution for Approval of Town of Blacksburg Easement

That the resolution authorizing Virginia Tech to execute the easements to the Town of Blacksburg be approved. (Copy filed with the permanent minutes and marked Attachment G.)

* * * * *

As part of the Buildings and Grounds Committee report, the following resolution was moved by Mr. Fahl, seconded by Mr. Anzilotti, and approved unanimously.

Resolution for Approval of Virginia Tech Foundation, Inc. Easement

That the resolution authorizing Virginia Tech to execute the easement to the Virginia Tech Foundation, Inc. be approved. (Copy filed with the permanent minutes and marked Attachment H.)

* * * * *

As part of the Buildings and Grounds Committee report, the following resolution was moved by Mr. Fahl, seconded by Ms. Duke, and approved unanimously.

**Resolution Reaffirming Delegation to the Chief of Police Authority to
Adopt and Enforce Trespassing Regulations**

That the resolution reaffirming delegation of authority to the Chief of Police for enforcing trespassing violations be approved. (Copy filed with the permanent minutes and marked Attachment I.)

REPORT OF THE FINANCE AND AUDIT COMMITTEE

Rector Nolen called on Mr. Anzilotti for the report of the Finance and Audit Committee.
(Copy filed with the permanent minutes and marked Attachment J.)

As part of the Finance and Audit Committee report, the following resolution was moved by Mr. Anzilotti, seconded by Dr. Jamison, and approved unanimously.

Resolution for Approval of Potential Operating Budget and Capital Budget Initiatives for 2011-12

That the University administration be authorized to submit these budget initiatives to the Commonwealth for inclusion in the 2010-11 Executive Budget Amendments in accordance with state instructions and consistent with the initiatives contained herein.
(Copy filed with the permanent minutes and marked Attachment K.)

As part of the Finance and Audit Committee report, the following resolution was moved by Mr. Anzilotti, seconded by Dr. Jamison, and approved unanimously.

Resolution to Approve Year-to-Date Financial Performance Report (July 1, 2009 – June 30, 2010)

That the report of income and expenditures for the University Division and the Cooperation Extension/Agricultural Experiment Station Division for the period of July 1, 2009 through June 30, 2010 and the Capital Outlay report be accepted. (Copy filed with the permanent minutes and marked Attachment L.)

As part of the Finance and Audit Committee report, the following resolutions were moved by Mr. Anzilotti, seconded by Ms. Duke, and approved unanimously.

Resolution for Approval of 9(c) Debt Financing Parking Auxiliary Improvements

That the resolution authorizing the issuance of 9(c) bonds through the Treasury Board on behalf of the University for the Parking Auxiliary Improvements project be approved. (Copy filed with the permanent minutes and marked Attachment M.)

**Resolution for Approval of 9(c) Debt Financing
Academic and Student Programs Building**

That the resolution authorizing the issuance of 9(c) bonds through the Treasury Board on behalf of the University for the Academic and Student Programs project be approved. (Copy filed with the permanent minutes and marked Attachment M.)

As part of the Finance and Audit Committee report, the following resolution was moved by Mr. Anzilotti, seconded by Dr. Jamison, and approved unanimously.

**Resolution for Approval of 9(d) Debt Financing
Henderson Hall/Center for Creative Technologies
Academic and Student Programs Building**

That the resolution authorizing the issuance of 9(d) bonds through the Virginia College Building Authority on behalf of the University for the Henderson Hall/Center for Creative Technologies project and the Academic and Student Programs Building project be approved. (Copy filed with the permanent minutes and marked Attachment N.)

As part of the Finance and Audit Committee report, the following resolution was moved by Mr. Anzilotti, seconded by Ms. Dalton, and approved unanimously.

**Resolution to Reappoint University Commissioner to the Hotel
Roanoke Conference Center Commission**

That the resolution to reappoint the Vice President for Outreach and International Affairs as the university's representative on the Hotel Roanoke Conference Center Commission through June 30, 2014, be approved. (Copy filed with the permanent minutes and marked Attachment O.)

As part of the Finance and Audit Committee report, the following resolution was moved by Mr. Anzilotti, seconded by Ms. Dalton, and approved unanimously.

**Resolution for Approval of the Virginia Tech Technology Services
and Operations Corporation**

That the resolution authorizing, at the President's discretion, the establishment of the Virginia Tech Technology Services and Operations Corporation as a university-related corporation and the affiliation thereof with the University be approved. (Copy of the resolution and affiliation agreement filed with the permanent minutes and marked Attachment P.)

* * * * *

In regard to the Auditor of Public Accounts' (APA's) statewide reviews and special reports, Mr. Anzilotti reported that the APA has issued two statewide audit reports that reference or impact Virginia Tech: Review of Commonwealth Internal Audit Functions (March 2010) and Follow-up on Deferred Maintenance in the Commonwealth (December 2009). The APA statewide reviews included no specific recommendation to the university. In addition, the APA has issued several special reports including systems recommendations that may, if fully implemented, result in undesirable outcomes for the university. After receiving an overview of these special reports and potential impacts, the committee expressed concern about the potential cost to the university related to new systems implementation at the state level. A request was made by the committee that the university request a cost-benefit analysis from the state relating to new systems implementation or to conduct an internal cost analysis before the implementation of any statewide system. The committee did not feel that it could go forward without at least an understanding of the cost involved. Especially in situations where the university's systems would have to interface with a central statewide accounting system, there will be significant costs and effort required.

* * * * *

REPORT OF THE RESEARCH COMMITTEE

Rector Nolen called on Ms. Duke for the report of the Research Committee. (Copy filed with the permanent minutes and marked Attachment Q.)

* * * * *

As part of the Research Committee report, the following resolution was moved by Ms. Duke, seconded by Ms. Lowe, and approved unanimously.

Resolution to Approve Appointments to the Virginia Coal and Energy Research and Development Advisory Board

That J. Michael Onifer and Peter Su be appointed as members of the Advisory Board for 2010-2013; that Jerry Grantham and Lisa Johnson be appointed as members of the Advisory Board for 2010-2014; and that Jerry A. Bridges be reappointed as member of the Advisory Board for 2010-2013. (Copy filed with the permanent minutes and marked Attachment R.)

REPORT OF THE STUDENT AFFAIRS AND ATHLETICS COMMITTEE

Rector Nolen called on Ms. Dalton for the report of the Student Affairs and Athletics Committee. (Copy filed with the permanent minutes and marked Attachment S.)

PRESIDENT'S REPORT

President Steger introduced Dr. William T. Lewis, Sr., Virginia Tech's new Vice President for Diversity and Inclusion. He will officially assume his new role on September 7th

Report of Research and Development Disclosures

As part of the President's report, President Steger shared with the Board the Report of Research and Development Disclosures – for information only, no action needed. (Copy filed with the permanent minutes and marked Attachment T.)

As part of the President's report, the following resolutions were moved by Mr. Rocovich, seconded by Mr. Fahl, and approved unanimously.

Resolution of Appreciation Honoring Ben J. Davenport, Jr.

That the resolution recognizing Ben J. Davenport, Jr. for his service as Rector and a member of the Board of Visitors be approved. (Copy filed with the permanent minutes and marked Attachment U.)

Resolution of Appreciation Honoring John R. Lawson, II

That the resolution recognizing John R. Lawson, II for his service as Rector and a member of the Board of Visitors be approved. (Copy filed with the permanent minutes and marked Attachment U.)

* * * * *

Resolution of Appreciation Honoring James R. Smith

That the resolution recognizing James R. Smith for his service as a member of the Board of Visitors be approved. (Copy filed with the permanent minutes and marked Attachment U.)

* * * * *

Resolution of Appreciation Honoring Dr. Lori L. Wagner

That the resolution recognizing Dr. Lori L. Wagner for her service as a member of the Board of Visitors be approved. (Copy filed with the permanent minutes and marked Attachment U.)

* * * * *

ACC Governing Board Annual Certification

Dr. Steger brought the certificate to the attention of the Board. It was subsequently signed after the meeting by the Rector and the President and returned to the ACC. (Copy filed with the permanent minutes and marked Attachment V.)

* * * * *

Status Report on the Governor's Commission on Higher Education Reform, Innovation, and Investment

President Steger provided a status report on the Governor's Commission on Higher Education Reform, Innovation, and Investment of which he is a member. The Commission is made up of about 38 individuals from higher education, business, and the public sector across Virginia. The fundamental problem is that Virginia needs to have a robust economy in the 21st Century. In order to do that, and in order to sustain the generation of new companies, it is necessary to grow the number of college-educated individuals in the state. Today, about 41 percent of Virginia's population has a college education. Recent studies published indicate that at least 50 percent of the population must have a college education in order to be able to sustain the desired

level of growth and development. Governor McDonnell has announced that Virginia needs to create 100,000 additional degrees over the next several years, and President Steger completely supports that goal. The dilemma is that there is not sufficient state funding to achieve this goal. So, the essential task of the Commission is to try to find ways to continue to become more efficient, and to identify new approaches, particularly with regard to distance learning and looking at 2+2 combinations between the community college system and the universities, all of which will go together to try to increase the production of well-educated young men and women who are going to lead this commonwealth in the future. Specific to Virginia Tech, President Steger is focusing his energy on three areas of particular importance: 1) To continue the process of restructuring, giving the institution greater autonomy to manage its own affairs in order to realize savings and use those savings to reinvest in the core enterprise. This is a top priority. 2) To explore innovative ideas in distance learning to try to improve the accessibility of our students to courses in the summer and on campus during the regular academic year. 3) To continue to try to find ways to expand the flow of research dollars to Virginia Tech's laboratories and research facilities around the state. President Steger has shared these areas of focus with the Governor, as well as the chairman of the Commission and others. By September 10, the Commission expects to have some preliminary recommendations, which could be addressed in the upcoming session of the General Assembly.

* * * * *

As part of the President's report, the following resolution was moved by Ms. Duke, seconded by Mr. Fahl, and approved unanimously.

Resolution of Approval of Creating the Health Sciences Division

That the resolution authorizing the President to initiate the creation of a Health Sciences Division, to enter into an affiliation agreement with Carilion Clinic, Inc., and acknowledging that the creation and/or movement of units into the new Division is subject to all applicable accreditation, regulatory, and governmental approvals be approved.
(Copy filed with the permanent minutes and marked Attachment W.)

Presentation by Dr. Ed Murphy, CEO of Carilion Clinic, Inc.

President Steger introduced Dr. Ed Murphy. Leading a team of people from both organizations, they have worked together over the past two to three years to create the new Virginia Tech Carilion School of Medicine. Described by Dr. Steger as a highly regarded "thinker" in the field of health care delivery in the United States, Dr. Murphy was invited to address the Board of Visitors relative to his vision of the future of Carilion Clinic and the practice of medicine and medical education in general. The landscape is changing dramatically, which presents a unique opportunity to combine Carilion's assets with Virginia Tech's expertise and capabilities in engineering, computational sciences, etc. to make a significant contribution to health care in general and to medical research more specifically.

When Dr. Murphy finished speaking, Rector Nolen asked how the Board of Visitors could help to advance the medical school and research institute. Dr. Murphy responded that he is very much a results-oriented individual and is satisfied with the results thus far. Using a football metaphor, he compared this phase in the evolution of the medical school and research institute to half-time at a football game. In the end, it is not the score at half-time that matters. He advised of the need to remain attentive in order to fully deliver on the value that has been created.

Following Dr. Murphy's presentation, the discussion of the Health Sciences Division continued. President Steger emphasized that plans for the Division are not yet fully developed, but he brought forward the resolution today in order to get the Board's approval to proceed. He explained that as more of the state's budget must be allocated to medical costs, criminal justice, transportation, etc, the funds available for higher education will continue to decline. Thus, the university must become increasingly entrepreneurial and innovative to grow its resource base in order to sustain the momentum and maintain the quality of education for our students. President Steger asserted that it will be necessary to grow the university's research programs to about \$600 million per year in order to help rebuild the faculty that have been lost over the past two rounds of budget reductions. One path the university is pursuing is to identify the components of the national agenda in which Virginia Tech has expertise and pursue funding in those areas. Another path is to determine how Virginia Tech through its collaboration with Carilion can make a significant contribution to society as health care needs change with the shift in the nation's demography.

In response to questions by Mr. Rocovich and Dr. Jamison, Dr. Steger clarified that any funding that might be required to support the Division of Health Sciences would be incorporated as part of the university's comprehensive budget proposal that is submitted annually to the Board of Visitors for approval.

Dr. Jamison noted the university's announcement of the passing of Charlie Yates, the first African-American graduate of Virginia Tech. He asked that the administration prepare for the Board of Visitors an appropriate acknowledgement of the monumental impact that he has had on this campus. Rector Nolen said that this can be brought back to the next meeting. President Steger stated that he had directed the State flag to be flown at half-staff on campus to honor Dr. Yates on the day of his funeral service.

* * * * *

Motion to begin Closed Session

Ms. Duke moved that the Board convene in a closed meeting, pursuant to § 2.2-3711, Code of Virginia, as amended, for the purposes of discussing:

1. Appointment of faculty to Emeritus status, the consideration of individual salaries of faculty, consideration of Endowed Professors, review of departments where specific individuals' performance will be discussed, and consideration of personnel changes including appointments, resignations, tenure, and salary adjustments of specific employees and faculty leave approvals.
2. The status of current litigation and briefing on actual or probable litigation.
3. Special Awards.

all pursuant to the following subparts of 2.2-3711 (A), Code of Virginia, as amended, .1, .7, and .10

The motion was seconded by Mr. Fahl and passed unanimously.

Motion to Return to Open Session

Following the Closed Session, members of the press, students, and the public were invited to return to the meeting. Rector Nolen called the meeting to order and asked Ms. Duke to make the motion to return to open session.

Ms. Duke made the following motion:

WHEREAS, the Board of Visitors of Virginia Polytechnic Institute and State University has convened a closed meeting on this date pursuant to an affirmative recorded vote and in accordance with the provisions of The Virginia Freedom of Information Act; and

WHEREAS, Section 2.2-3712 of the Code of Virginia requires a certification by the Board of Visitors that such closed meeting was conducted in conformity with Virginia law;

NOW, THEREFORE, BE IT RESOLVED that the Board of Visitors of Virginia Polytechnic Institute and State University hereby certifies that, to the best of each member's knowledge, (i) only public business matters lawfully exempted from open meeting requirements by Virginia law were discussed in the closed meeting to which this certification resolution applies, and (ii) only such public business matters as were identified in the motion convening the closed meeting were heard, discussed or considered by the Board of Visitors.

The motion was seconded by Mr. Fahl and passed unanimously.

Upon motion by Mr. Rogers and second by Dr. Jamison, unanimous approval was given to the resolutions for approval of **Emeritus Status (49)**, as considered in Closed Session. (Copies filed with the permanent minutes and marked Attachment X.)

Upon motion by Mr. Fahl and second by Dr. Jamison, unanimous approval was given to the resolutions for approval of **Endowed Professorships and Fellowships (11)** as considered in Closed Session. (Copies filed with the permanent minutes and marked Attachment Y.)

Upon motion by Ms. Duke and second by Ms. Lowe, unanimous approval was given to the resolutions for approval of **Naming University Facilities (4)** as considered in Closed Session. (Copies filed with the permanent minutes and marked Attachment Z.)

Upon motion by Ms. Duke and second by Ms. Lowe, approval was given to the **Resolution for Ratification of Personnel Changes Report** as considered in Closed Session. (Copy filed with the permanent minutes and marked Attachment AA.) This item was reviewed by the Academic Affairs Committee and the Finance and Audit Committee.

Audit Report

No Action Required

Litigation Report

Not for Approval

Constituent Reports (No action required.)

- **Undergraduate Student Representative to the Board – Mr. Shane McCarty**
- **Graduate Student Representative to the Board – Mr. Deepu George**
- **Staff Representative to the Board – Ms. Maxine Lyons**
- **Faculty Representative to the Board – Dr. Michael Ellerbrock**
(Copies filed with the permanent minutes and marked Attachment BB.)

President Steger noted that all Board members were given a copy of the Common Book that every freshman is given. Barbara Kingsolver, the author of this year's book, *Animal, Vegetable, Miracle*, will be visiting campus during Sustainability Week and interacting with the students.

Several Board members expressed interest in having more opportunities for the full Board to interact with students. Rector Nolen responded that President Steger willingly adjusted the agenda to respond to his request for more exposure to the deans as a regular process. Rector Nolen asked that such ideas be sent to him several months in advance to enable him to discuss with President Steger and allow sufficient time for planning. Rector Nolen also added that at a future meeting this year the Board should visit the new Virginia Tech Carilion School of Medicine and Research Institute in Roanoke.

The dates for the next meeting are November 7-8, 2010, on the Virginia Tech Campus, Blacksburg, Virginia.

* * * * *

The meeting adjourned at 3:15 p.m.

George Nolen, Rector

Kim O'Rourke, Secretary

Committee Minutes

ACADEMIC AFFAIRS COMMITTEE

**Drillfield Conference Room
The Inn at Virginia Tech and Skelton Conference Center
8:30 a.m.**

August 30, 2010

Board Members Present:

Chair: Ms. Sandra Stiner Lowe

Members Present: Ms. Michele L. Duke, Mr. Deepu George, Graduate Student Representative, Dr. Mike Ellerbrock, Faculty Representative

Members Absent: Mr. William B. Holtzman

Guests:

Mr. Maxwell Awando, Ms. Alicia Cohen, Dr. Karen DePauw, Dr. John Dooley, Dr. Jack Finney, Dr. Bethany Flora, Ms. Francesca Galarraga, Ms. Jasmine Graham, Dr. Patricia Hyer, Dr. Hal Irvin, Ms. Mildred Johnson, Ms. Suzie Karlin, Dr. Anna LoMascolo, Dr. William Lewis, Mr. Perry Martin, Dr. Mark McNamee, Dr. Robin Pannenton, Dr. Ellen Plummer, Mr. William Pruitt, Ms. Silvia Ramos, Dr. Karen Eley Sanders, Ms. Susan Steeves, Mr. Tod Whitehurst, Dr. Robert Walters, Mr. Kirk Wehner, Dr. Daniel A. Wubah

CLOSED SESSION:

The committee approved a resolution to move into closed session to consider emeriti resolutions, endowed professorship and fellowship resolutions, and ratification of the personnel changes report.

All recommendations and resolutions were unanimously approved. The session was formally certified and the committee moved to open session.

OPEN SESSION:

1. Welcome.

Ms. Sandra Stiner Lowe, committee chair, welcomed committee members and guests. Ms. Lowe asked new committee members to introduce themselves. Earlier in the morning, committee members met with faculty members associated with the Center for the Arts and discussed interdisciplinary collaborations and signature programs.

2. Approval of Minutes.

A motion was made and passed unanimously to approve the June 7, 2010 minutes of the committee.

3. Report of Closed Session Action Items.

Actions taken in the committee's closed session were reported including 49 resolutions for emeriti status, resolutions for 8 endowed professorships and 3 fellowships, and ratification of the personnel changes report.

The resolutions presented to the committee were unanimously approved and forwarded to the full Board with recommendation for approval.

4. Provost's Update.

Dr. Mark McNamee, senior vice president and provost, introduced William Lewis, newly appointed vice president for diversity and inclusion who starts on September 1st. Dr. Lewis is the founding director of the Office of Institutional Diversity at Bridgewater State College in Massachusetts. He was the founding director of Diversity Initiatives for the Kelley School of Business at Indiana University. He holds a B.S. in Criminal Justice and an M.S.W. from Indiana University Purdue University at Indianapolis and a Ph.D. in Higher Education Administration from Indiana University, Bloomington.

Dr. McNamee thanked Dr. Karen Eley Sanders for her service as Interim Vice President for Diversity and Inclusion.

Dr. McNamee shared with the committee that Dr. Michael Friedlander, executive director of the Virginia Tech Carilion Research Institute, provided the full board with a presentation on the progress of the institute. The building is complete and Dr. Friedlander and his team are moving in.

The Virginia Tech Carilion School of Medicine began classes in early August with 42 students enrolled.

Dr. McNamee reminded committee members of the invitation to attend the annual reception that celebrates the promotion and tenure achievements of faculty member. The reception is scheduled for September 8th.

Each year, the Academic Affairs Committee reviews and establishes priority items for its agenda for the year. Dr. McNamee led a discussion on the agenda topics for the 2010 – 2011 year. Committee members expressed an interest in hearing further about academic assessment. In addition, committee members requested information on the progress towards Inclusive Excellence in University Honors, study abroad and undergraduate research. In addition, the on-going recruitment, retention and progress of a diverse faculty and staff is of interest to the committee. In Faculty Affairs, the committee requested the addition of promotions as well as awards and recognition to

the agenda of the committee. Over the course of the year, the committee will receive regular updates on the progress of the undergraduate task force.

5. Resolution to Make Permanent the Standing Research Committee of the Board of Visitors.

In June 2006, the Board of Visitors established the Research Committee with a stipulation that the Board would evaluate the committee in three years and determine whether it should remain a standing committee of the Board. The Research Committee concentrates on advancing the research mission and goals of the university and reviewing policies and plans related to the research function.

A resolution was made and passed unanimously to amend Article 1, Section 6g of the by-laws of the Board to make permanent the Research Committee.

6. Faculty Affairs.

a. Employment Climate Survey.

Dr. Hal Irvin, associate vice president for human resources, presented results from the Employment Climate Survey conducted in 2009 to gauge perceptions of the work climate. The survey was administered to staff, research faculty and administrative/professional (A/P) faculty. 5,449 employees were surveyed with a 45% response rate. Survey results include 91% of respondents stating that Virginia Tech is a good place to work. Areas needing attention include communications, performance planning and reviews, and broader understanding of the university's Principles of Community.

b. Administrative/Professional (A/P) Faculty Task Force Report.

Dr. Irvin also presented information on the A/P Task Force, which met during the 2009 – 2010 academic year and established priority areas. During the 2010-2011 year, an implementation team will focus on studying A/P faculty compensation and annual performance reviews and reappointment processes.

c. Resolution for Approval of the Faculty Handbook.

Dr. Jack Finney, associate provost for faculty affairs, introduced the resolution to affirm the Faculty Handbook. Of note this year is the reorganization of the Faculty Handbook to reflect recommendations made by the A/P Faculty Task Force. The handbook has been organized into sections that delineate policies applicable to all categories of faculty employees and sections that delineate policies applicable to A/P, special research, and other categories of faculty employees. In addition, the separate handbook for special research faculty is now incorporated into the current handbook.

A resolution was made and passed unanimously to affirm the August 2010 version of the Faculty Handbook.

7. Global Strategies.

Dr. John Dooley, vice president for outreach and international affairs, provided an overview of on-going international initiatives. In addition, Dr. Dooley, updated the committee on the Virginia Tech MARG Swarnabhoomi, India international campus which will offer master's and doctoral programs in engineering, basic and applied sciences, and technology with potential application to energy, nanoscience and nanotechnology, transportation, biotechnology and information.

8. Inclusive Excellence.

Dr. Karen Eley Sanders, interim vice president for diversity and inclusion updated the committee on Inclusive Excellence efforts. Access and Success efforts include the Presidential Scholarship Initiative, outreach to the Ron Brown Scholars, the Achievable Dream project, reaching out to veterans, and other efforts designed to advance undergraduate students. Education and Scholarship efforts include the Diversity Development Institute and workshops on the Principles of Community. Campus Climate and Intergroup Relations initiatives have involved the town of Blacksburg and Montgomery County Schools. Institutional Infrastructure efforts include the implementation of the Principles of Community Award in March of 2011, Multicultural Alumni Outreach and participation in the Virginia Diversity Officers in Higher Education association.

9. Academic Initiatives.

a. Undergraduate Education

Dr. Daniel Wubah, vice president and dean for undergraduate education, provided the committee with the 2010 projected enrollment for undergraduate students. 5,187 students accepted admission, the projected goal for the 2010 freshman class is 5,137 students.

Dr. Wubah provided information on the \$1.4M Howard Hughes Medical Institute Award received by Virginia Tech in July. The award will be used to encourage faculty to develop new ways to teach and inspire undergraduate students to engage in science and engineering research.

b. Graduate Education.

Dr. Karen DePauw, vice president and dean for graduate education, provided the committee with the 2010 projected enrollment for graduate students. The 6,943 graduate students include 4,050 master's students and 2,884 Ph.D. students.

Adjournment.

There being no further business, the meeting adjourned at 11:45.



2009 Virginia Tech Employment Climate Survey Results and AP Task Force Update

Hal Irvin, VT HR

August 2010 BOV Meeting

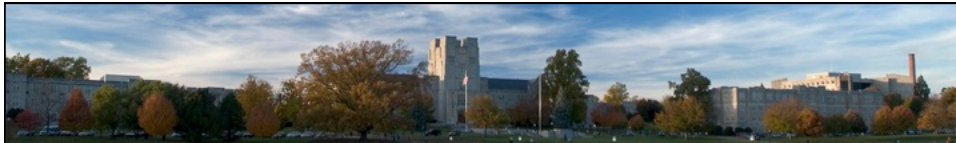


Agenda

- Survey Basics
- Results by Major Section
- The Ugly – Themes from Comments
- The Bad – Lowest Scoring Items
- The Good – Highest Scoring Items
- Follow Up Work to Date
- AP Task Force Update
- Appendices

2


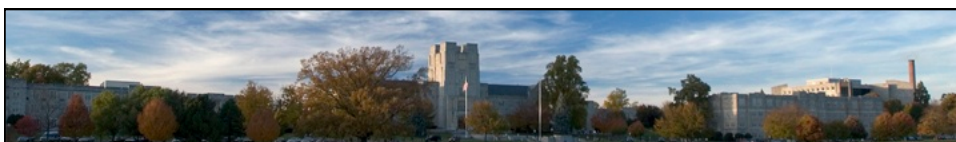




Survey Basics

- Survey purpose to gauge the perceptions of employees regarding the VT work climate
- Survey conducted by VT Center for Survey Research in Fall 09
- Distributed to 5,449 AP faculty, research faculty, and staff – not to teaching faculty
- 45% response rate with 2,473 respondents
- Plan to conduct survey every other year and include all salaried employees, including teaching faculty, next time


3





Survey Basics (cont.)

- Approximately 80 questions with a 1 to 4 rating scale
 - 1 is strongly disagree, 2 is somewhat disagree, 3 is somewhat agree, and 4 is strongly agree
- Two free form questions – one about diversity and one about ideas to improve climate: 171 pages of comments
- Means reported for highest and lowest scoring items
- Any mean less than a 3 (somewhat agree) would be less than a desired result

4







Response Rate by Employee Category

- AP faculty=58.2% (649/1,114)
- Research faculty=35.8% (220/615)
- Staff=43.1% (1,604/3,720)

5





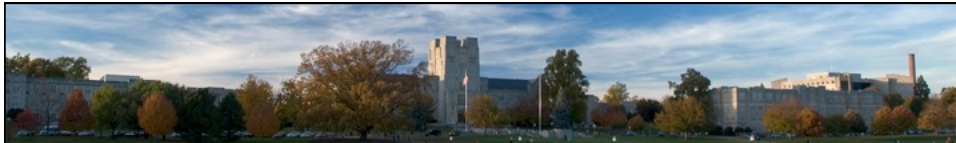
Rank Ordered Mean Results by Survey Section

Opinions about supervision (10 questions)	3.36
Opinions about VT Principles of Community – POC (6 questions)	3.32*
Opinions regarding resources (9 questions)	3.30
Opinions regarding diversity (13 questions)	3.28
Opinions regarding co-workers (11 questions)	3.23

*251 individuals (10.2%) did not complete 3 of the 6 questions in the section – not aware of POC

6







Rank Ordered Mean Results by Survey Section


Opinions about employee job satisfaction (9 questions)	3.15
Opinions about leadership (11 questions)	3.01
Opinions regarding communication (6 questions)	2.88

7

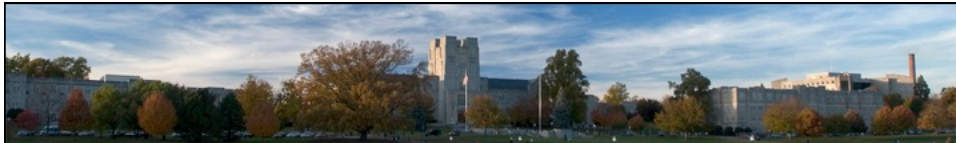
 VirginiaTech
Invent the Future



Word Cloud – General Comments




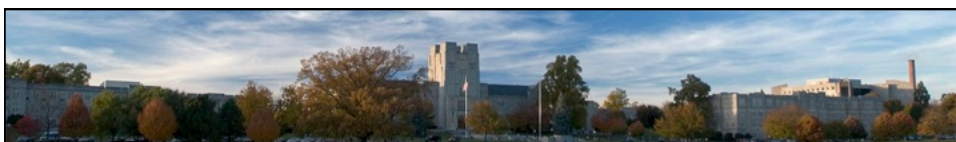
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The Ugly – Themes from Comments

- Frustration about a lack of communication about VT's budget situation
 - "During this time of economic uncertainty, I feel that more information should be shared in a timelier manner with the Virginia Tech community about how and why decisions are made"
 - "The biggest concern I have revolves around communication...I feel like communication is reactionary instead of proactive. There is the belief that the administration knows a lot more than they are sharing in all situations..."
 - "From the communications I've read from the administration, we get a lot of 'we're doing the best we can' but not a lot of concrete information"


9

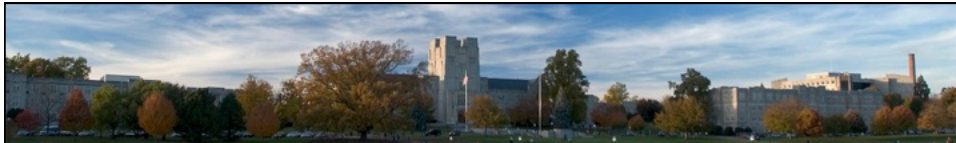



The Ugly – Themes from Comments

- Fear and concern about job loss
 - "With the impending job cuts, all employees are very concerned about our jobs. It seems we go from day to day without knowing anything definite and this creates low morale within the department."
- Resentment by staff of faculty – class system/special treatment
 - "The university still has a strong caste system. Faculty, even if obviously unproductive, are valued and protected more than the most productive staff members are."

10


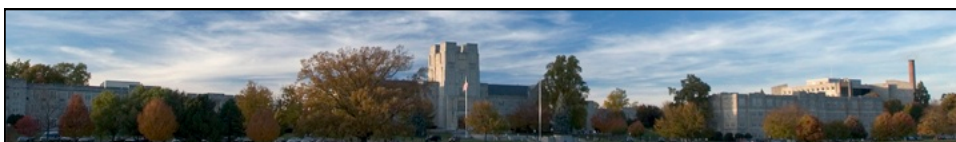




The Ugly – Themes from Comments

- Lack of positive consequences for high quality performance and lack of negative consequences for poor performance
 - “Good work is not rewarded and people would never get fired regardless of how badly they perform.”
 - “I have had consistently high performance reviews and words of praise and no monetary reward.”
 - “Hold non-performing employees accountable!”
 - “In this department , we have good workers and sorry workers. If you are a good worker, all you get is more work. The sorry workers are allowed to get by with nothing. All that happens is the management is turning good workers into sorry workers.”


11

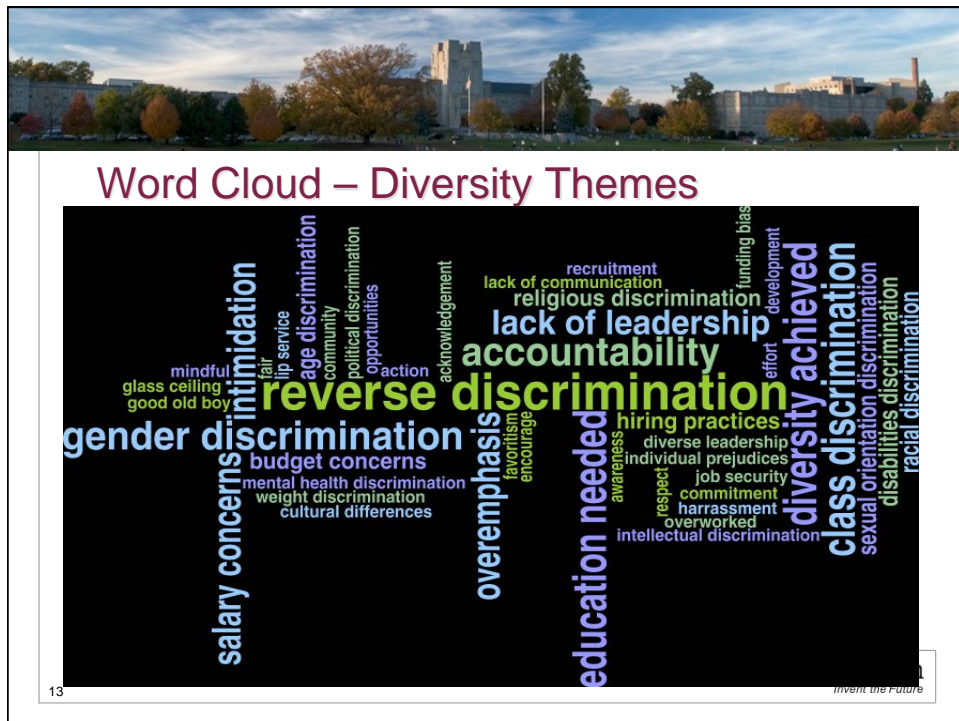



The Ugly – Themes from Comments

- Criticism of the competence of supervisors and institutional leadership
 - “Less politics and bureaucracy...”
 - “Whether supervisors will acknowledge it or not, there are always favorites, and the remaining employees are left flapping in the wind.”
 - “This department is run on personal feelings...”
 - “Burruss Hall still feels controlled by the ‘old boy network’.”
- Perceived lack of knowledge and need for development of supervisors
 - “We need supervisor accountability and training...”

12



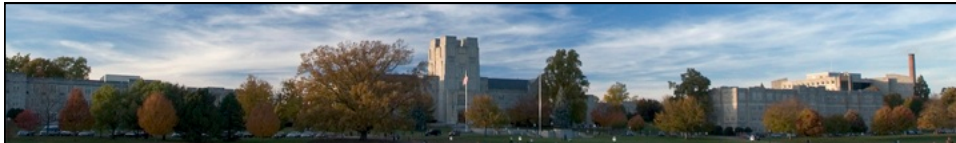


The Ugly – Themes from Comments

- Resentment of diversity efforts and resentment over perceived differential treatment based on status
 - “Regional prejudice seems to be the most acceptable prejudice on campus.”
 - “Whenever I hear about diversity at Virginia Tech, it seems to only center on African-Americans. That needs to change.”
 - “There should be accountability for discriminatory behavior at all levels.”

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The Ugly – Themes from Comments

- Concerns about gender equity with respect to pay and value of input
 - “Gender discrimination is present, both subtle and obvious”
 - “As a fairly new employee, I am struck by the male dominance at the university relative to other workplaces. I don’t sense this is deliberate, just the way it is.”

15

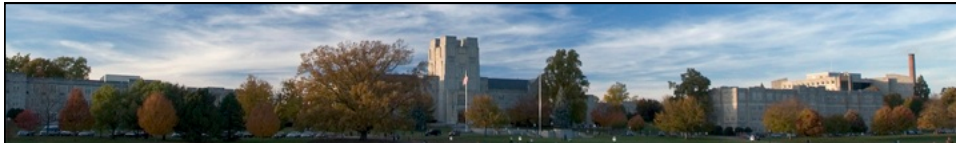



The Ugly – Themes from Comments

- Concerns from newly hired staff about a lack of acceptance/ support for change
 - “Maintaining the status quo and turf protection seem to be the operational themes in the upper management and that is unfortunate.”
 - “I am often frustrated with the general resistance to change that is so pervasive...”
 - “Much of the university runs on assumptions of how ‘it has always been done’...”

16


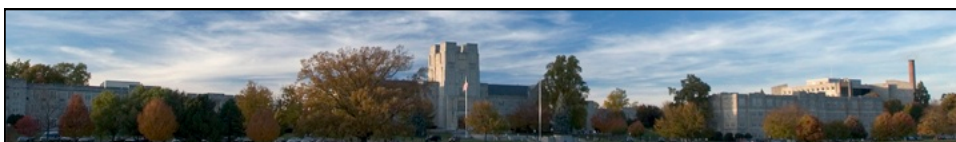




Some Good - In Spite of it All, A Good Place to Work

- VT is a good place to work is the 8th highest mean on the survey at 3.50
 - “Overall, I have thoroughly enjoyed my work experience at VT.”
 - “I have worked here a long time and have very much enjoyed my work with the students and my co-workers.”
 - “We are very fortunate to work at VT.”
 - “I love my job!”


17





VT is a Good Place to Work

- 91.3% either strongly (59.8%) or somewhat (31.5%) agreed that VT is a good place to work
- The Conference Board’s annual survey of employee job satisfaction released in January, 2010
 - Only 45% of American workers are satisfied with their work – the lowest figure since the survey started in 1987 – 84% of VT employees surveyed are satisfied with their work
 - Employee concerns nationally that their jobs are not interesting, incomes have not kept up with inflation, and increasing cost of health care eating into income

18






More Good

I have read, heard and/or seen insensitive or disparaging comments or materials in the workplace that were offensive to me	1.88
My department administration would be unlikely to intervene if discriminatory behavior occurred	1.92

The lowest means on the entire survey were the two items we want to be low (i.e. show a high level of disagreement)

19

Mean scores: 1 is strongly disagree, 2 is somewhat disagree, 3 is somewhat agree, and 4 is strongly agree

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The Bad – Lowest Ranked Means

Morale among employees at Virginia Tech is good	2.46
Virginia Tech rewards the efforts of employees who do outstanding work	2.49
Individuals in my department are made accountable for poor performance	2.61
I have opportunities for career growth or promotion at Virginia Tech	2.62
I am satisfied with the amount of input I have about major policy decisions in my dpt	2.68

20

Mean scores: 1 is strongly disagree, 2 is somewhat disagree, 3 is somewhat agree, and 4 is strongly agree

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The Bad – Lowest Ranked Means

My dpt has sufficient staffing to allow us to achieve our mission	2.71
People in my department are comfortable dealing with change	2.73
The rationale for important decisions that impact me at VT is communicated effectively	2.74
Conflict is resolved effectively in my dpt	2.78
I feel free to express my opinions in my job without worrying about negative results	2.82
I have confidence in the university's leadership	2.93

21

Mean scores: 1 is strongly disagree, 2 is somewhat disagree, 3 is somewhat agree, and 4 is strongly agree




The Good – Top Rank Ordered Means

Job performance reviewed in person @ least once a yr	3.68
I apply the VT Principles of Community in my work at VT	3.67
I have good relationships at VT with others outside my dpt	3.67
I have good relationships with co-workers	3.60
I have a good relationship with my supervisor	3.58

22

Mean scores: 1 is strongly disagree, 2 is somewhat disagree, 3 is somewhat agree, and 4 is strongly agree

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The Good – Top Rank Ordered Means

VT Principles of Community are important in maintaining a positive and productive VT work environment	3.51
People in my dpt are committed to doing quality work	3.51
VT is a good place to work	3.50
My supervisor is available to me when I have questions or need help	3.49
Tools and technologies I use help me in my work	3.49
My dpt has the talent necessary for quality work	3.49

23

Mean scores: 1 is strongly disagree, 2 is somewhat disagree, 3 is somewhat agree, and 4 is strongly agree

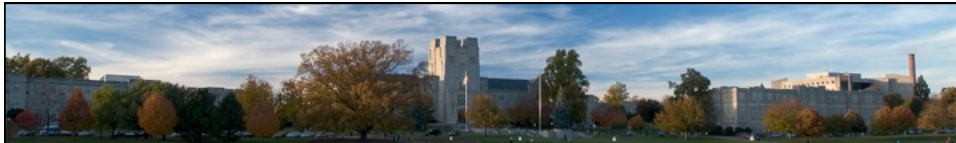


Follow Up Work to Date

- Presentation to President and direct reports
- Shared detailed results with every VP and dean
- Communicated overall results through governance and university committees
- Several divisions have conducted their own follow up work, either on their own or with the help of HR's University Organizational and Professional Development unit

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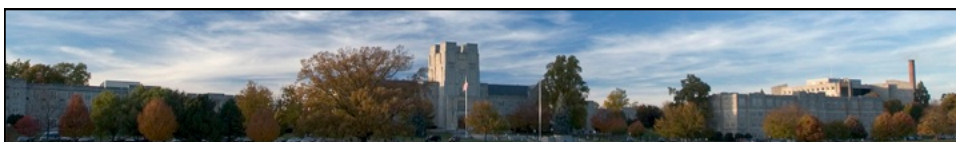
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AP Faculty Task Force

- President Steger formed an AP Faculty Task Force last year
 - To develop a transition plan for how Human Resources should best assume responsibility for “all aspects of AP policy administration and all aspects of AP human resources administration” as of July 1, 2010.
- Reason for change:
 - In January, 2009, a number of classified and university staff “converted” to AP (Administrative and Professional) faculty status bringing the number of AP faculty to almost 1,100.
 - Allows Office of the Provost to focus on teaching and research faculty.


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Focus of AP Faculty Task Force

- Performance management, compensation, employee relations, and recruitment
- In February, 2010, Equity and Access function (ADA Services, Compliance and Conflict Resolution, and Equity Initiatives) moved to HR from VP for Equity and Inclusion
 - As a part of the transition, we are still working on our recruitment efforts with a particular focus on diversity.
 - Search for Executive Director for Equity and Access underway

26




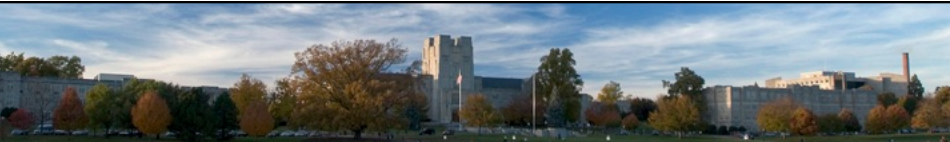


Adoption of Good Performance Management Practices for AP Faculty

- Responses to our 2009 climate survey indicate 10% of AP Faculty received no performance evaluations
- HR will be working with the campus to insure every AP faculty member has:
 - documented annual expectations;
 - a documented review;
 - and an annual conversation between the employee and manager about performance.
- Will follow up with a very brief annual survey of AP faculty to determine if these practices are in place

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Compensation Guidelines

- Compensation guidelines for AP faculty are not in place in all senior management areas or across the institution for similar AP jobs.
 - The Task Force recommended HR work with an AP Faculty Compensation Advisory Group to establish AP Faculty salary guidelines based on AP job descriptions.
 - Dr. Steger will establish the Advisory Group to work with the HR compensation team to insure completion of job descriptions and salary guidelines for all AP employees within a 24 month timeframe.
- Task Force members and all recommendations are in Appendix 2
 - Task Force recommendations approved


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Questions?

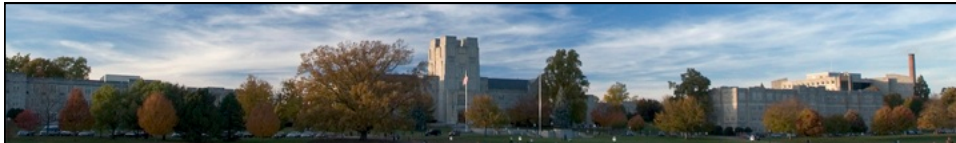
29



Appendix 1- Survey

30






Demographics of Respondents

- By race
 - 91% are White (n= 2,254) 88% in survey population
 - 4% are Black (n= 110) 5% in survey pop.
 - 3% are Asian (n = 62) 2% in survey pop.
 - 1% are mixed race (n= 21) less than 1% in survey pop.
 - 1% are other/no race reported (n= 26) 4% in survey pop.
- By gender
 - 62% are women (n=1,528) 55% in survey population
 - 38% are men (n=945) 45% in survey population

31




Characteristics of a Great Place to Work

- A great place to work® is one in which you "trust the people you work for, have pride in what you do, and enjoy the people you work with."
 - Copyright by the Great Places to Work Institute
- Includes five characteristics: **credibility, respect, fairness, pride, camaraderie**
 - **Credibility**
 - Communications are open and accessible
 - Competence in coordinating human and material resources
 - Integrity in carrying out vision with consistency

32






Five Characteristics of a Great Place to Work – Great Places to Work Institute

- **Respect**
 - Supporting professional development and showing appreciation
 - Collaboration with employees on relevant decisions
 - Caring for employees as individuals with personal lives
- **Fairness**
 - Equity - balanced treatment for all in terms of rewards
 - Impartiality - absence of favoritism in hiring and promotions
 - Justice - lack of discrimination and process for appeals


33





Five Characteristics of a Great Place to Work – Great Places to Work Institute

- **Pride**
 - In personal job, individual contributions
 - In work produced by one's team or work group
 - In the organization's products and standing in the community
- **Camaraderie**
 - Ability to be oneself
 - Socially friendly and welcoming atmosphere
 - Sense of "family" or "team"


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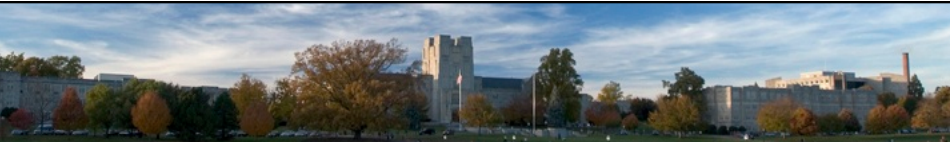




Appendix 2- AP Task Force

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AP Faculty Task Force Members

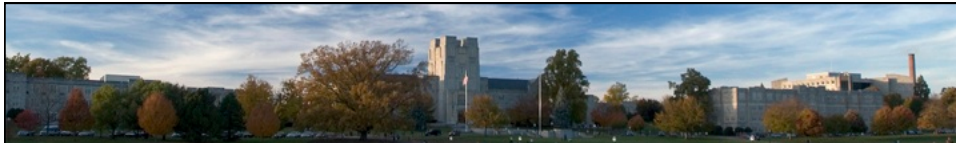
- Hal Irvin, Task Force Chair, Associate Vice President for Human Resources
- Rhonda Arsenault, Associate Vice President for Advancement Services, University Development
- Cynthia Bonner, Chief of Staff and Director of Administration, Student Affairs
- Martin Daniel, Director of Operations, College of Agriculture and Life Sciences
- Jack Finney, Associate Dean, College of Science and Representative, Commission on Faculty Affairs (now Associate Provost for Academic Administration)
- Kay Heidebreder, University Legal Counsel
- Pat Hyer, Associate Provost for Academic Administration, Office of the Provost
- Marilyn King, Senior Associate Director, Scholarships and Financial Aid, Chair, Commission on AP Faculty Affairs^[1]
- Sandra Muse, Senior Director for Administrative Services, Office of the Vice President for Research
- Kim O'Rourke, Chief of Staff and Secretary to the Board of Visitors, Office of the President
- Karen Sanders, Interim Vice President for Equity and Inclusion, Equity and Inclusion^[2]
- Jeb Stewart, Chief of Staff and Director of Planning and Administration, Information Technology
- Kirk Wehner, Executive Director of Total Compensation, Human Resources
- Lisa Wilkes, Assistant Vice President for Finance, Office of the Vice President for Finance and CFO

^[1] Frances Keene, Director of Judicial Affairs (Student Affairs), served on the Task Force as the CAPFA representative until her maternity leave in January, 2010.

^[2] Kevin McDonald served on the Task Force as Vice President for Equity and Inclusion until December, 2009. He started a new position as Chief Diversity Officer at Rochester Institute of Technology in January, 2010.

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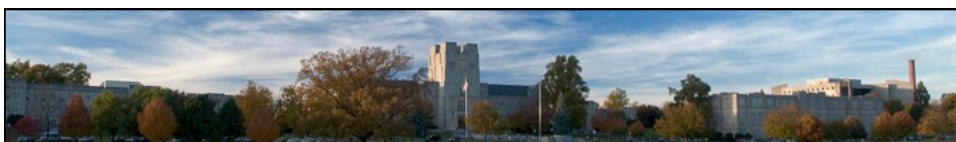

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Summary of AP Task Force Recommendations

- *Recommendation 1: Do not develop a separate AP faculty handbook. Reorganize the Faculty Handbook to make it easier for AP faculty to find the information that is relevant to their questions and needs. Completion date, September 2010.*
- *Recommendation 2: We recommend stopping the annual AP reappointment process, and placing the annual focus on an appropriate annual evaluation of AP faculty, after appropriate review and consideration by university governance. Completion date, July, 2011.*


37

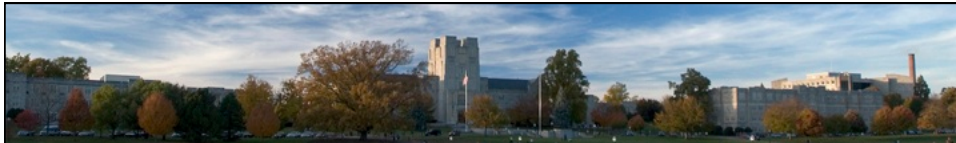



Summary of AP Task Force Recommendations

- *Recommendation 3: Rather than requiring the adoption of a standard performance management process across the campus, Human Resources should promote the adoption of good performance management practices across all senior management areas. Completion date, implementation of communication plan in August, 2010 + annual survey at completion of performance management cycle.*
- *Recommendation 4: The Task Force recommends HR work with an AP Faculty Compensation Advisory Group to establish AP Faculty salary guidelines based on AP job descriptions. The HR Compensation team should prepare a project plan for Advisory Group approval which insures completion of job descriptions and salary guidelines within a 24 month timeframe. Completion date, no later than June 30, 2012.*

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Summary of AP Task Force Recommendations

- *Recommendation 5: Develop a transition plan with the Associate Provost for Academic Administration and the HR Employee Relations unit, with a particular focus on the high priority items identified by the Task Force. Completion date, July, 2010.*
- *Recommendation 6: Take advantage of the transition between OEI and HR to review the hiring roles and responsibilities of hiring departments, HR, and the former Equal Opportunity and Affirmative Action group to insure Virginia Tech operates with a fair and service-oriented hiring process that meets departmental needs – pilot of new process to occur this calendar year. Completion date, no later than January, 2011.*

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International Programs Update
Academic Affairs Committee
Board of Visitors
August 30, 2010



Update: Virginia Tech, India



Virginia Tech, India






Vision

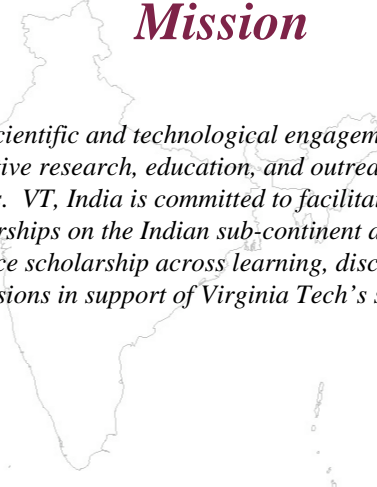

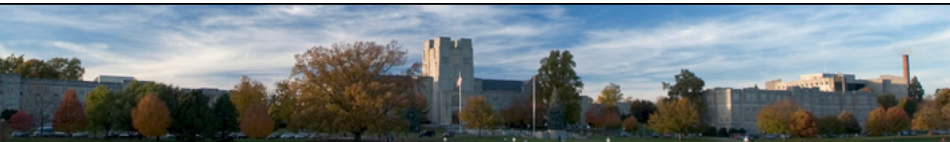
To establish a world-class center of integrated research, education, and outreach that uniquely contributes to the growing educational needs of the Indian society, while at the same time enhancing the scholarly pursuits and interests of Virginia Tech faculty, staff, and students. VT, India educational programs will focus on excellence in graduate education (MS and PhD). Programs will be supported by cutting edge research conducted in state-of-the-art laboratories and facilities.

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Mission

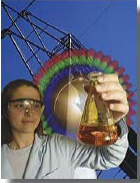

VT, India fosters scientific and technological engagement through an integrated model of collaborative research, education, and outreach to address global issues and opportunities. VT, India is committed to facilitating corporate/academic/institutional partnerships on the Indian sub-continent as well as within the United States to advance scholarship across learning, discovery and engagement dimensions in support of Virginia Tech's strategic plan.

Expected Outcomes


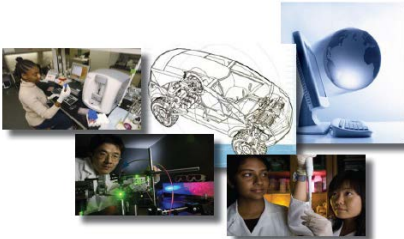
- a) Much needed masters and doctoral level qualified personnel for both the Indian sub-continent as well as US/Global needs.*
- b) Independent and joint research to meet scientific and technological challenges of the 21st century in the service of the global community.*
- c) Growing, dynamic and multiple educational and research partnerships with corporate/academic/institutional sectors.*
- d) Ongoing Indo-US exchange of masters and doctoral students and faculty.*
- e) Ongoing scientific, cultural and technological exchanges.*
- f) The transfer of science and technology to businesses and communities across India through service and outreach.*



What We Aspire to Do

Programs in engineering, basic and applied sciences, and technology with potential application to energy, nanoscience and nanotechnology, transportation, biotechnology and information technology.



Indian Partner: The MARG Group

- Based in Chennai (southeast India)
- Principal: GRK Reddy
- Reputable developer
- Recommended by members of the VT, India Advisory Board





Partnership Arrangement

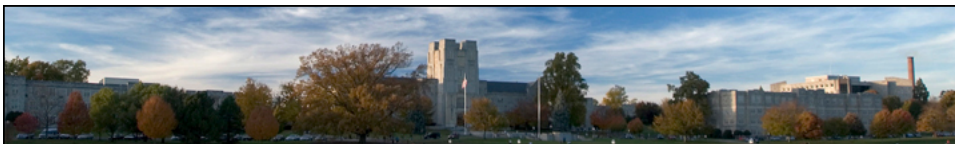
- ‘Virginia Tech MARG Swarnabhoomi, India’
- Establishment of a joint trust in India to hold assets:
 - Thirty acres of land
 - \$5 million for start-up
 - 70,000 square feet of classroom/laboratory space
- Creation of three Innovation Centers with strong collaboration with private industry:
 - ICTAS
 - VBI
 - VTTI

The VirginiaTech logo is in the bottom right corner.




Next Steps:

- Foreign universities bill in Indian parliament
- Program and curriculum development by participating colleges
- Final site selection
- Begin the process of hiring key personnel



Questions?





Growing and Sustaining a Diverse & Inclusive Environment *Office for Diversity & Inclusion*



Definition of Terms

Diversity

- Individual differences (personality, learning styles, and life experiences) and group/social differences (race/ethnicity, class, gender, sexual orientation, country of origin, ability, cultural, political, religious, or other affiliations) that can be engaged in the service of learning and working together

Inclusion

- Active, intentional, and ongoing engagement with diversity; the ways in which individuals might connect that increase one's awareness, content knowledge, cognitive sophistication, and emphatic understanding of the complex ways individuals interact within systems and institutions





Reminders & Updates

- Virginia Tech Diversity Strategic Plan endorsed by Board in March 2010
- ODI team members: VP, 4 A&P faculty, 5 classified staff, Faculty Fellow
- Diversity and Inclusion team has redoubled education, advocacy and outreach efforts


3



Inclusive Excellence

- Access & Success
- Campus Climate & Intergroup Relations
- Education & Scholarship
- Institutional Infrastructure

4





Access & Success: Presidential Scholarship Initiative, Class of 2013 (49)

- Average Cumulative GPA: 2.94
- GPA range: .67 – 3.97
- Average total hours earned: 29
- Hours earned range: 6 – 36
- Academic Standing: Good = 96% (47); First Suspension = 4% (2)


5




Access & Success: Presidential Scholarship Initiative, Class of 2014 (50)

- Average high school GPA=3.97; SAT=1205
- 72% first generation students; 46% single parent household
- 50% female; 50% male
- 18% Asian; 26% Black/African American; 20% Hispanic/Latino; 32% White; 4% Unknown

6





Access & Success: 2010/2011/ 2012/2013 Scholars (RBSP applicants)

Cohort	Gender		GPA Range	Average GPA	Average Hours Earned
	Female	Male			
2006	4	4	2.79-4.00	3.24	118
2007	6	2	1.78-3.58	2.80	86
2008	5	7	1.76-3.49	2.98	53
2009	6	15	1.08-3.86	2.93	25

ech
Future

7



Access & Success: Achievable Dream, Newport News

- 2 campus visits; 4 applicants for fall 2010; 1 student offered admission
- Partnered with Kaplan Test Prep to provide SAT support for 42 juniors
- Dreamers' SAT scores increased 70-240 points!
- SAT test prep incorporated into schedule for grades 10-11

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8



Access & Success: Veterans@VT

- ~230 student veterans
 - 170 undergraduate
 - 70 graduate/professional
- Veterans@VT website
- Veterans Support Office

9




Access & Success Faculty/Staff	Education & Scholarship
<ul style="list-style-type: none"> • Office of the Provost Future Faculty Initiative 	<ul style="list-style-type: none"> • Diversity Development Institute • Principles of Community Faculty Workshops with Center for Instructional Development and Educational Research (CIDER) • Diversity Lesson Plan for First Year Experience

10





Campus Climate & Intergroup Relations

- Principles of Community Reception with the Town of Blacksburg
- Principles of Community Speaker Series
- VT-Montgomery County Schools MLK, Jr. Essay & Poster Contest
- Actively Caring for People

11

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Institutional Infrastructure

- Principles of Community Awards, March 2011
- Multicultural Alumni Outreach
 - Black Alumni Scholarship Fund
 - Admissions “Ambassadors”
- Virginia Diversity Officers in Higher Education

12

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Questions?

13



RESOLUTION TO MAKE PERMANENT THE STANDING RESEARCH COMMITTEE OF THE BOARD OF VISITORS

WHEREAS, the by-laws of the Board of Visitors authorize the Board to organize itself into committees to facilitate its work; and,

WHEREAS, in 2001, the Board of Visitors established a Special Committee on Research in support of the overarching goal of the university's *Strategic Plan, 2001-06* for Virginia Tech to become one of the premier research universities in the nation; and,

WHEREAS, in alignment with reaffirmation of that goal in the updated *Strategic Plan, 2006-12*, the Board amended its by-laws on June 12, 2006, to establish a standing Research Committee charged with advancing the research mission and goals of the university and reviewing policies and plans related to the research function; and,

WHEREAS, the June 2006 resolution passed by the Board directed that the Research Committee be composed solely of the Rector, Vice-Rector, and chairs of all of the standing committees, including the chair of the Research Committee, who is appointed by the Rector; and,

WHEREAS, the Board desires to give the Rector authority to appoint the membership and chairs of all standing committees of the Board; and,

WHEREAS, the June 2006 resolution stipulated that the Board of Visitors would evaluate the Research Committee in three years and determine whether the Research Committee should remain a standing committee of the Board; and,

WHEREAS, the Board has determined that the standing Research Committee should be a permanent standing committee of the Board of Visitors;

NOW, THEREFORE, BE IT RESOLVED, that the Research Committee will be a permanent standing committee of the Board of Visitors and this action will be reflected in the Board's by-laws; and

BE IT FURTHER RESOLVED that the by-laws of the Board, Article 1, Section 6g, Research Committee, will be amended to read as follows:

The Research Committee concentrates on advancing the research mission and goals of the university and reviewing policies and plans related to the research function. ~~The Research Committee is composed solely of ex-officio members, as follows: the chairman of the Research Committee, Rector, Vice-Rector, and chairs of the other four standing committees. Three years following the date of creation of this committee (June 12, 2006), the Board will evaluate the Research Committee and~~

~~make a determination at that time (2009) as to whether the Research Committee will remain a standing committee of the Board.~~

RECOMMENDATION:

That the Board of Visitors' by-laws be amended as described above to make permanent the standing Research Committee and to give the Rector the authority to appoint the membership and chair of the Research Committee.

August 30, 2010

RESOLUTION TO RATIFY *FACULTY HANDBOOK* CHANGES FOR 2010

WHEREAS, the creation of policies governing the faculty of the university is the responsibility of the Board of Visitors, and each year the Board approves a number of such policies, most of which result in changes to the *Faculty Handbook*; and

WHEREAS, the *Faculty Handbook* serves as the ultimate authority for all personnel policies relating to faculty of the university, thus the *Faculty Handbook* is of critical importance and is frequently cited; and

WHEREAS, accordingly, the handbook is annually revised to incorporate new or amended policies and editorial updates to reflect occurrences such as changes in administrative titles or terminology, etc., and to correct errors; and

WHEREAS, to ensure that the handbook reflects the policies passed by the Board and that editorial changes are appropriate and accurate, the Board annually reviews and ratifies the revised edition of the *Faculty Handbook*; and

WHEREAS, the Administrative and Professional (A/P) Faculty Task Force recommended that the *Faculty Handbook* be reorganized to make clear those policies applicable to all faculty and those policies that address a specific category only, and that the separate handbook for special research faculty be incorporated into one consolidated, but reorganized *Faculty Handbook*; and

WHEREAS, President Steger accepted the recommendations of the task force concerning consolidation and reorganization of the handbook as well as other matters affecting A/P faculty;

NOW, THEREFORE, BE IT RESOLVED that the Board of Visitors of Virginia Polytechnic Institute and State University hereby affirms the August 2010 version of the *Faculty Handbook*, incorporating changes summarized in the attachment.

RECOMMENDATION:

That the August 2010 version of the *Faculty Handbook* be ratified by the Board of Visitors and made effective August 10, 2010.

August 30, 2010

OVERVIEW OF SIGNIFICANT REVISIONS AUGUST 2010 EDITION OF THE *FACULTY HANDBOOK*

Consolidation and Reorganization of the Handbook

- The two separate handbooks have been combined; material concerning the special research faculty is now included in chapter six.
- Chapter two, which contained the main employment related policies has been disaggregated into a chapter for policies applicable to all faculty and separate chapters for each major faculty group: tenured and tenure-track faculty (chapter three), faculty with continued appointment or continued-appointment track (chapter four), non-tenure-track instructional faculty (chapter five), special research faculty (chapter six), and administrative and professional faculty (chapter seven).
- Some material has been moved to different sections to facilitate the flow and/or visibility of the policies. For example, scholarly misconduct is now briefly referenced in chapter two and fully described in chapter eleven (research).
- The table of contents has been reformatted to improve usability and to highlight major topics and subsections.

General Editing

- Verb tenses throughout the handbook have been made more consistent, using the present tense wherever appropriate.
- Some text has been revised for better readability.
- Titles of officials, units, and terminology have been updated.

New or Revised Policies and Procedures

New or revised policies approved by the Board of Visitors or issued by administrative offices have been incorporated. Some material submitted for the SACS compliance review has also been incorporated. Substantive changes are noted below.

Chapter Two: Employment Policies and Procedures for All Faculty

- 2.2.2: Criminal background checks and driving record checks (administrative policy)
- 2.2.3: Statement “~~All new faculty appointments are provisional until approved by the board of visitors~~” replaced by longer statement reflecting delegation of authority by board for approval of certain new faculty appointment. The new statement reads: “The board of visitors holds the authority to approve all faculty appointments. The authority has been delegated to university officials for certain types of new appointments, generally including non-tenure positions and restricted appointments. Final approval by the board of visitors is required for new appointments of instructional and research faculty members on the tenure-track or continued appointment track, including those appointed with tenure; faculty-ranked athletic personnel; senior administrators (such as deans and vice presidents) and their direct reports; and administrative and professional faculty members reporting directly to the president and their direct reports.” Related changes also made in other sections of the handbook (changes approved by BOV).
- 2.2.4 Faculty credentials requirements and procedures (SACS).
- 2.2.8 Updated to reflect long-standing practice for appointment of vice presidents.

Appointment of Senior Vice President and Provost and Vice Presidents: When a vacancy occurs, the president determines the procedures that will be used for identifying qualified candidates, including the decision to engage a search firm and/or to appoint a university search or screening committee. Where the position involves considerable interaction with the academic faculty, significant engagement of faculty members in the search and/or interview process is desirable and expected. The board of visitors retains authority to approve appointments of all vice presidents. ~~When a vacancy occurs, the University Council serves as an advisory body to the president for identifying qualified candidates, advising on the candidates preferred for a campus visit, and evaluating candidates during campus visits. The president, in consultation with University Council, may appoint a search committee, primarily from council members, to carry out many of those responsibilities.~~

- 2.3.3 Summer appointments (incorporated changes related to federal contract compliance).
- 2.4.3.1 University safety and security policy (administrative policy).
- 2.4.1.1 Allegations of professional misconduct (moved text concerning allegations against A/P faculty members from section 1.7.3 to this section for greater visibility).
- 2.4.5 Policies on anti-discrimination and harassment (incorporated changes approved by BOV).
- 2.6.4 Annual leave (reference to policy 6200 on research extended appointments and holiday closing; both approved by BOV).
- 2.7 Change of duty station (renamed section and provided more descriptive language).
- 2.8.2 Resignation: Periods of notice for resignation for instructional faculty were inconsistent across types and have not been adhered to in practice. Minimum notice period now one full academic semester for those with teaching responsibilities.
- 2.8.3 Consolidated all references to non-reappointment.
- 2.8.4 Unclaimed personal property (administrative procedure).
- 2.9 Deleted statement: ~~Furlough may occur only in the case of reduction in force.~~ (Furlough may occur without a reduction in force.)
- 2.9.2 Reduction in force for program restructuring or discontinuance: Eliminated following sentence: ~~"In all of the above cases, however, departments or programs whose diversity would otherwise be threatened should consider affirmative action as additional grounds for decision making."~~ Sentence contradicts extant case law and is not legally supported.
- 2.10 Severance policy (included reference to approved severance policy adopted by BOV).
- 2.11 Consulting and outside employment (incorporated policy on outside employment approved by BOV); added statement that "Further conditions may apply for consulting by faculty members funded by sponsored projects" (reference to federal contract compliance requirements; more specific policy language to be developed).

- 2.13 Incorporated material from policy 6362 on continuing and professional education (administrative policy).

Chapters Three and Four:

Employment Policies and Procedures for Tenured and Tenure-Track (chapter three) and Continued Appointment and Continued-Appointment Track Faculty (chapter four)

- 3.5.4 + 4.6.4 Post-tenure review (deleted duplicative summary of steps for severe sanction and dismissal for cause; complete process descriptions follow in subsequent sections).
- 4.6.4 Post-Continued Appointment Review: Adapted post-tenure review section for tenured faculty for continued appointment faculty members. References to departmental and college committees changed to *division-level* and *university-level* committees to maintain two-level post-tenure review process. (There are no equivalent “department-level” committees for the library and extension faculty.)
- 3.6.3 + 4.7.3 Dismissal for cause: Revised clause in sentence, from “The following procedures apply to faculty members with tenure or continued appointment, ~~or in the case of involuntary termination of an instructional faculty member on a fixed-term regular appointment before the end of the term.~~” to “The following procedures apply to faculty members with tenure or continued appointment, *or for dismissal for cause of a tenure-track (or continued-appointment track) faculty member before the end of their current contract.*” (Policies related to dismissal for cause for non-tenure track instructional faculty, administrative and professional faculty, and for special research faculty were separately approved by BOV; hence this dismissal for cause process is not applicable to those faculty groups.)
- 3.9 + 4.10 Eliminated annual report to the Commission on Faculty Affairs documenting number of faculty on research assignment; original quota of slots by college was eliminated; report of college-level allocations no longer relevant.

Chapter Six: Employment Policies and Procedures for Special Research Faculty

- 6.1 + 6.13 Special research faculty appointments (added reference to newly approved material on federal contract compliance issues).
- 6.1 Clarified and consolidated description of approval processes for appointments
- 6.3 Added project management as example of responsibilities relevant to project associate ranks
- 6.4.4 Matrix of research ranks (updated material).
- 6.7.1 + 6.11 Clarified that restricted appointments and reappointments may be more than one year in length
- 6.15.3 Grievance procedure for special research faculty (corrected reference to Faculty Senate Review committee in case where grievant wants to pursue grievance but time limitations have lapsed).
- 6.15.5 Grievance procedure, particular concerns and definitions (deleted erroneous reference to a panel hearing, not relevant).

Chapter Seven: Employment Policies and Procedures for Administrative and Professional Faculty

- 7.2.3 Degree verification (incorporated new process for verifying highest degree for A/P faculty).
- 7.3.1 Periodic evaluation (incorporated more detailed description of periodic review process for senior administrators as documented in SACS compliance certification).
- 7.5 Teaching credit classes and overload compensation (updated reference to newly approved outside employment policy, provided in full in chapter 2).
- 7.6 Non-reappointment (deleted clause “Notice of non-reappointment, ~~or of the intention to recommend non-reappointment~~, is given in writing...”; university practice is to give formal written notice of non-reappointment).
- 7.6.4 Abolition of position (reference to severance benefits added)

Chapter Nine: Instruction-Related Programs and Policies

- 9.1 Assignment of Academic Responsibilities: Repeated expectation of availability two weeks before school starts and after commencement as stated in section 2.3.1
- 9.12 - 9.14 Support for instruction, curriculum, and student advising (updated material describing units supporting instruction and students)

Chapter Ten: Faculty Benefits Program

- Updated all sections as needed related to university and state benefits.
- Added requirement for 5% employee contribution to retirement programs for employees hired on or after July 1, 2010 (section 10.1.3).

Chapter Eleven: Research, Creative, and Scholarly Activities

- 11.1.7 Classified research (text updated).
- 11.2 Misconduct in research (moved from previous location in chapter 2).
- 11.3 Removal of a Principal Investigator (PI), Co-PI or Lead Investigator (moved from previous location in chapter 2).
- 11.4 Effort certification (incorporated newly approved policy by BOV).

Chapter Twelve: Other Policies, Procedures, and Information (material updated)

Committee Minutes

THE BUILDINGS AND GROUNDS COMMITTEE

**Solitude Room, Skelton Conference Center
10:00 a.m.**

August 30, 2010

Board Members Present: Mr. Douglas R. Fahl, Mr. John Rocovich

VPI&SU Staff: Ms. Rhonda Arsenault, Mr. Kevin Bishop, Mr. Bob Broyden, Ms. Vickie Chiocca, Mr. Denny Cochrane, Mr. Michael Coleman, Mr. Thim Corvin, Mr. David Dent, Ms. Angie De Soto, Ms. Lynn Eichhorn, Dr. Elizabeth Flanagan, Mr. Lance Franklin, Mr. Mark Gess, Mr. Monte Hager, Ms. Kay Heidbreder, Mr. Larry Hincker, Mr. Rick Hinson, Dr. Jennifer Hodgson, Mr. Hugh Latimer, Ms. Heidi McCoy, Mr. Jim McCoy, Ms. Bobbi Myers, Mr. Michael Mulhare, Mr. Fred Selby, Mr. Ken Smith, Dr. Charles W. Steger, Ms. Mary Grace Theodore, Mr. Ross Verbrugge, Dr. Sherwood Wilson

1. **Master Plan Overview Tour:** The Committee went on a driving tour of precincts included in the current campus master plan.
2. **Opening Remarks and Approval of Minutes of June 7, 2010:** The minutes of the June 7, 2010 meeting were unanimously approved.
- * 3. **Resolution for Appointment to the Regional 911 Emergency Communications Center:** The Committee recommended full Board approval of the appointment of Dr. Sherwood G. Wilson, Vice President for Administrative Services, as the University's representative to the Regional 9-1-1 Emergency Communications Authority effective immediately upon approval of the Regional 9-1-1 Emergency Communications Authority by the local governing boards.
- * 4. **Resolution for Appointments to Blacksburg-Christiansburg-VPI Water Authority:** The Committee recommended full Board approval of the reappointment of Dr. Sherwood G. Wilson as the University's representative to the Blacksburg-Christiansburg-VPI Water Authority.
- * 5. **Resolution for Town of Blacksburg Easement:** As a part of the Virginia Tech Corporate Research Center Phase II project, the Virginia Tech Foundation, Inc. and the Town of Blacksburg have requested that the University grant easements to the Town of Blacksburg for a sanitary sewer line and a water line on University property along Tech Center Drive to serve Phase II of the Virginia Tech Corporate Research Center. The Committee recommended full Board approval of the resolution authorizing the University to execute the easements.

- * **6. Resolution on Virginia Tech Foundation, Inc. Easement:** As a part of the Virginia Tech Corporate Research Center Phase II project, the Virginia Tech Foundation, Inc. has requested that Virginia Tech grant an easement for a communication line on University property along Tech Center Drive. This communication line conduit will serve Phase II of the Virginia Tech Corporate Research Center. The Committee recommended full Board approval of the resolution authorizing the University to execute the easement.
- * **7. Resolution Reaffirming Delegation to the Chief of Police the Authority to Adopt and Enforce Trespassing Regulations:** The Committee recommended full Board approval of the resolution that reaffirms delegation of authority to develop and enforce procedures in accordance with the provisions of the Code of Virginia to prevent trespassing upon the lands, buildings, or premises of Virginia Tech to the Chief of Police.
- 8. Design Preview on College of Veterinary Medicine Instruction Addition:** The College of Veterinary Medicine Instruction Addition will be an addition to the existing College of Veterinary Medicine building, located at the north side near the east main entry. This building addition will be a three story structure of approximately 24,000 SF containing teaching labs, lab support, faculty offices and a 40-seat classroom. To connect the addition's laboratory, classroom, office and commons functions with integrated operations in the adjacent existing facility, the new construction supplants the existing main building entry. A new prominent and transparent front entry leading through the addition will be created, including meeting and breakout space with a monumental stair within a flexible use concourse. An outdoor terrace covers a portion of the larger lowest floor and provides a communal space overlooking the oak grove, connected to the terraced landscaping. The addition's exterior façades complement and reflect the existing building's scale and massing, horizontal banding, ribbon windows and precast panels through the use of similar horizontally expressed precast, windows, and trim. The project has completed Schematic Design and construction will begin in spring 2011 and occupancy should occur in summer 2013.

The Committee expressed support for the design with the recommendation that Hokie Stone accents be added to the design and blend with the existing Veterinary Medicine facility, to create a transition away from the exposed aggregate pre-cast concrete to the more traditional design found on campus. This new structure will become the main entrance of Veterinary Medicine. The recommendation was also made that the large scupper on the south face of the retaining wall be eliminated and replaced with numerous smaller scuppers spaced along the entire span of the wall. Committee members recommended addressing the stormwater issues with newer methods that reduce maintenance. Mr. Fahl also requested that in the future the Committee be provided a tour of the building sites for design previews and reviews, especially if the project will

directly affect an existing building so that the Committee can better understand how the project will blend with existing architecture.

9. **Design Review for the National Institute of Aerospace Facility:** The Technology Research and Innovation Center will be situated on a 5.1 acre parcel in Hampton, Virginia. The project provides for new construction of a three story structure of approximately 60,000 SF containing designated labs, flex space labs, offices, and unfinished shell space with a building foot print of approximately 20,000 SF. This new building is planned to appropriately compliment the color and finishes of the existing National Institute of Aerospace building located across the street including a similar blending of two-color brick masonry. The exterior façade will compliment the design and massing of surrounding buildings while still creating an individual identity for this new building. The project is in the Schematic Design phase. Construction is planned to start in November 2010, and occupancy is planned in December 2011. The Committee approved the design.
10. **Introduction of University Building Official:** The Committee was introduced to Mr. Rick Hinson, the University Building Official, who was hired July 1, 2010. A formal University policy outlining the reporting relationship between the University Building Official and the Board, as well as the scope, responsibility and organizational structure of the new Building Official Office, will be presented at the November 2010 meeting for approval.
11. **Annual Report on University Sustainability Initiatives:** The Committee discussed highlights of the Office of Sustainability's 2010 Annual Report on Campus Sustainability. This annual report meets the requirement of the Virginia Tech Climate Action Commitment Resolution, Point 13: "The university will monitor energy use and GHG emissions as well as changing internal and external conditions, prepare an annual 'report card' showing progress towards targets, and periodically re-evaluate targets, making adjustments to targets as appropriate based on changing internal and external conditions and evolving technologies." This also fulfills a previous request by the Board to receive a report annually on sustainability efforts. In Fiscal Year 2009-10, Virginia Tech continued being recognized at both state and national levels for its sustainability leadership, receiving a Campus Sustainability Report Card 2010 overall grade of "B" from the Sustainable Endowments Institute (SEI) and placing third among top-scoring state agencies in the 2009 Virginia "Green Commonwealth Challenge". This was the second consecutive year the university's overall grade improved. Only 80 of 332 colleges and universities surveyed earned the distinction as a "Campus Sustainability Leader." Virginia Tech's Henderson Hall Renovation and Theatre 101 project was awarded US Green Building Council (USGBC) LEED Gold certification, achieving the goal of LEED Silver or better, and were the first buildings to receive LEED certification on campus and in Blacksburg. Virginia Tech achieved a 9.7% decrease in annual energy use from baseline year FY2007 (normalized for both campus gross square footage and

climate conditions), resulting from efficiency improvements and conservation efforts such as Air Handler Unit scheduled shutdown and space temperature setback programs. Finally, Lumenhaus, Virginia Tech's entry into the 2009 Solar Decathlon and 2010 Solar Decathlon Europe competitions, placed first in the June, 2010 European Solar Decathlon in Madrid, Spain.

12. **Capital Project Status Report:** The Committee received an update on the status of capital projects. Eleven projects are in the design phase, 3 projects are in the construction procurement process, 9 projects are under construction, and 4 projects are pending.

Mr. Fahl inquired on the status of the Signature Engineering Building project. The project is on the approved capital project list. A potential donor has asked that certain aspects of the exterior design be reconsidered. Dr. Wilson informed the committee that should substantial changes be made, the redesign will be provided to the Board for approval.

13. At the close of the meeting, Dr. Wilson made the Committee aware that the Campus Design Principles, approved at the June 2010 Board meeting, were recently updated to correct an inaccuracy in the Historical Overview section that referred to a resolution passed by the Board in the 1990s requiring Hokie Stone. Although it was the clear intent of the Board in the 1990s that Hokie Stone continue to be the predominant stone on campus buildings, an extensive search of Board minutes from 1980 to present day revealed that an official resolution requiring Hokie Stone was not passed by the Board. The following sentence was replaced:

"But Hokie Stone prevailed, and in the 1990s the Board of Visitors passed a resolution to ensure its continuation in all buildings constructed from that time forward."

The Principles now read:

"But Hokie Stone prevailed, and in the 1990's the Board of Visitors reaffirmed their desire for its continued usage in all buildings constructed from that time forward."

This item will be discussed again at the November meeting. The Committee asked that the references to Hokie Stone in the Campus Design Principles be highlighted for their review. Proposed revisions will be drafted and forwarded to Committee members prior to the November meeting.

There being no further business, the meeting adjourned at 11:40 am.

***Requires full Board approval.**

**Capital Project Information Summary
College of Veterinary Medicine Instruction Addition**

THE BUILDINGS AND GROUNDS COMMITTEE

August 30, 2010

Title of Project:

College of Veterinary Medicine Instruction Addition

Location:

The new construction will be an addition to the existing College of Veterinary Medicine building, located at the north side near the east main entry.

Current Project Status and Schedule:

The project has completed Schematic Design. Construction will begin in spring 2011 and occupancy should occur in summer 2013.

Project Description:

The building addition will be a three story structure of approximately 24,000 SF containing teaching labs, lab support, faculty offices and a 40-seat classroom.

Brief Program Description:

The building will contain one floor of surgery teaching labs and lab support with animal holding spaces; one floor of faculty office, classroom, breakout and meeting spaces; and one floor of faculty offices and conference space.

Contextual Issues and Design Intent:

To connect the addition's laboratory, classroom, office and commons functions with integrated operations in the adjacent existing facility, the new construction supplants the existing main building entry. A new prominent and transparent front entry leading through the addition is created, including meeting and breakout space with a monumental stair within a flexible use concourse. An outdoor terrace covers a portion of the larger lowest floor and provides a communal space overlooking the oak grove, connected to the terraced landscaping. The addition's exterior façades complement and reflect the existing building's scale and massing, horizontal banding, ribbon windows and precast panels through the use of similar horizontally expressed precast, windows, and trim.

Architect/Engineer:

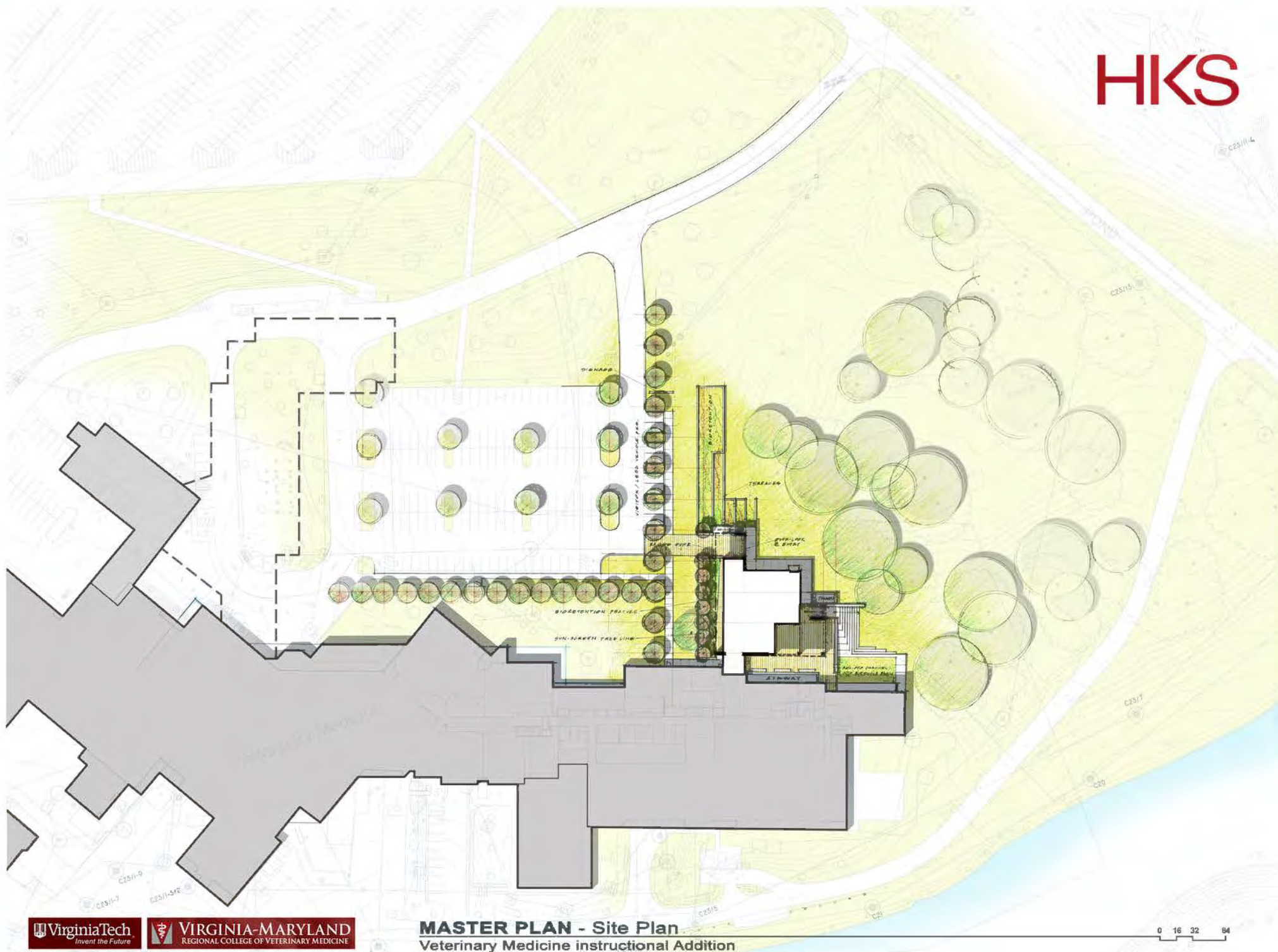
HKS

Construction Manager:

In selection process

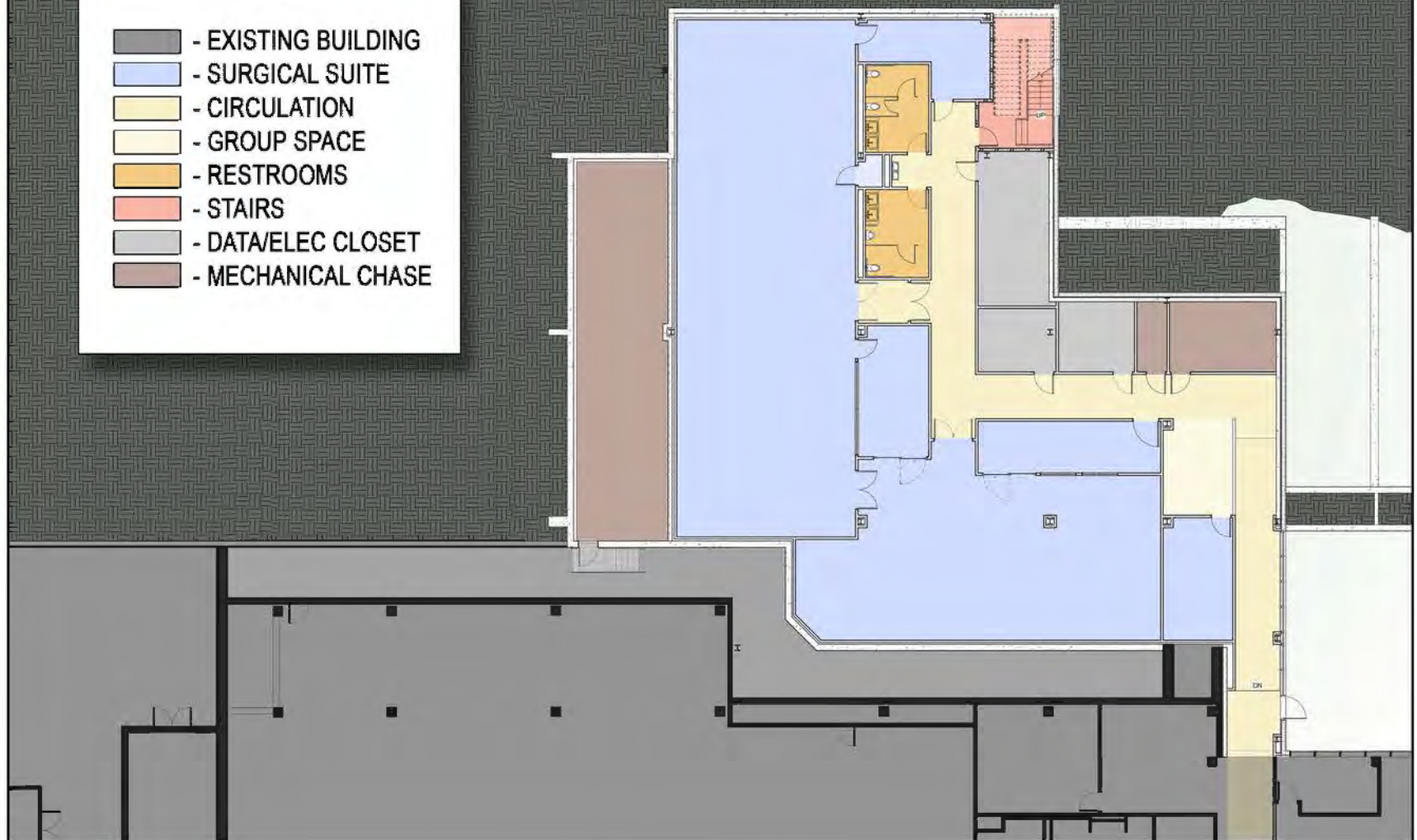
Project Status:

Budget: Project - \$14M; Construction - \$9.41M



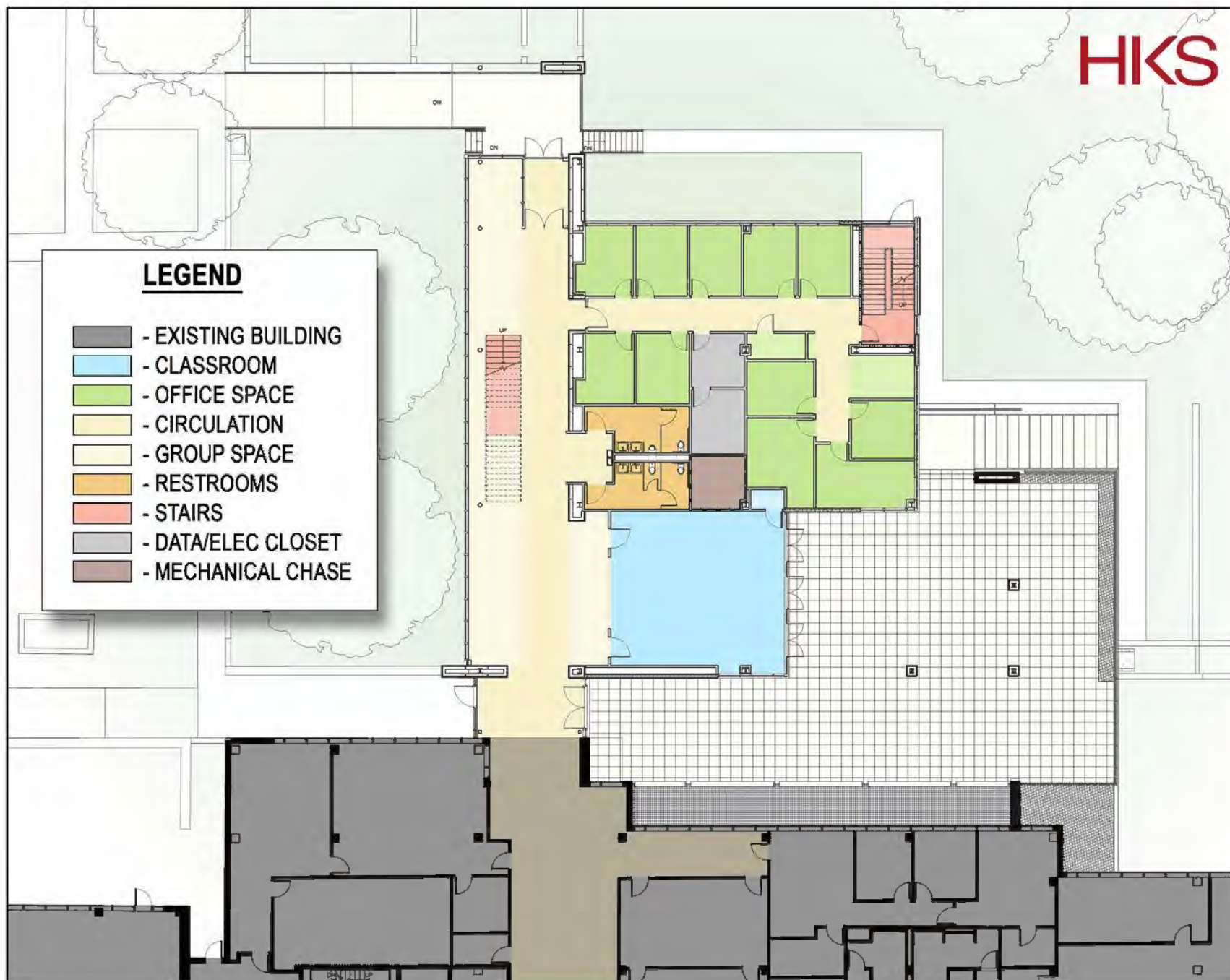
LEGEND

- EXISTING BUILDING
- SURGICAL SUITE
- CIRCULATION
- GROUP SPACE
- RESTROOMS
- STAIRS
- DATA/ELEC CLOSET
- MECHANICAL CHASE



LEGEND

- EXISTING BUILDING
- CLASSROOM
- OFFICE SPACE
- CIRCULATION
- GROUP SPACE
- RESTROOMS
- STAIRS
- DATA/ELEC CLOSET
- MECHANICAL CHASE



LEGEND

- EXISTING BUILDING
- OFFICE SPACE
- CIRCULATION
- GROUP SPACE
- RESTROOMS
- STAIRS
- DATA/ELEC CLOSET
- MECHANICAL CHASE



**Capital Project Information Summary
Technology Research and Innovation Center**

THE BUILDING AND GROUNDS COMMITTEE

August 30, 2010

Title of Project:

Technology Research and Innovation Center

Location:

The project is situated on a 5.1 acre parcel located on the northwest corner of Floyd Thompson Drive and Exploration Way in Hampton, Virginia.

Current Project Status and Schedule:

The project is in the Schematic Design phase. Construction is planned to start in November 2010 and occupancy is planned in December 2011.

Project Description:

The building will be a three story structure of approximately 60,000 SF containing designated labs, flex space labs, offices, and unfinished shell space with a building foot print of approximately 20,000 SF.

Brief Program Description:

The building will contain one floor of laboratories; one floor of flex lab spaces and unfinished shell space; and one floor of offices and open plan work stations.

Contextual Issues and Design Intent:

This new building is planned to appropriately compliment the color and finishes of the existing National Institute of Aerospace building located across the street with meaningful use and blending of brick masonry. The exterior façade will compliment the design and massing of surrounding buildings while still creating an individual identity for this new building.

Architect/Engineer:

Tymoff + Moss

Design/Build Contractor:

Concord Eastridge

Project Status:

Budget: Project - \$11.9M; Construction - \$9.6M

Cost/space: Project - \$198/GSF; Construction - \$160/GSF



Virginia Tech - National Institute of Aerospace Facility Hampton, Virginia

Project Team

Developer

General Contractor

Architect

Civil Engineer

MPE and Structural Engineer

Geotechnical Engineer

LEED Consultant

Concord Eastridge

Virtexco Corporation

Tymoff+Moss Architects

LandMark Design Group

AECOM

GET Solutions

2D Innovations

Building Facts

- 3 story; approx. 60,000 square feet
- Steel framed structure; steel stud exterior walls
- Exterior: predominantly brick; glass lobby; architectural metal panel infill; integral sunshades over exterior windows; single ply membrane roof
- First floor: 2 story lobby; lab spaces designed for maximum flexibility; loading dock and building services
- Second floor: lounge space; future offices and labs
- Third floor: Virginia Tech College of Engineering offices; Hampton Roads Technology Incubator spaces



Vicinity Plan

TYMOFF+MOSS ARCHITECTS



View from Traffic Circle



View of South side



View of East side

Views toward Site



Facing Southwest



Facing Southeast



Facing Northeast

Views out from Site

TYMOFF+MOSS ARCHITECTS



South Facade



West Facade



East Facade



North Facade

Building "A"

TYMOFF+MOSS ARCHITECTS



South Facade



West Facade



East Facade



North Facade

Building "B"

TYMOFF+MOSS ARCHITECTS



First Floor Plan

TYMOFF+MOSS ARCHITECTS



Second Floor Plan

TYMOFF-MOSS ARCHITECTS



Third Floor Plan

TYMOFF+MOSS ARCHITECTS

2010 Annual Report on Campus Sustainability at Virginia Tech



Presented by the Virginia Tech
Office of Sustainability

2010 Annual Report on Campus Sustainability at Virginia Tech

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Acknowledgements

The Office of Sustainability would like to sincerely thank all of the following people that helped in various ways to develop this report. Without your hard work and dedication to making our campus more sustainable, we would not be where we are today.

John Beach, Director of Utilities and Strategic Initiatives, Facilities Services
Erv Blythe, Vice President for Information Technology and Chief Information Officer
Kim Briele, Associate Director of Operations Engineering, Facilities Services
Rachael Budowle, Housing & Dining Services Sustainability Coordinator
Donna Cassell, Director, Career Services
Catherine Chambers, Manager of Printing Services, Facilities Services
Michael Coleman, Associate Vice President for Facilities Services
Chris Compton, Director of Property Operations, Inn at Virginia Tech and Skelton Conference Center
David Dent, Associate Director, Facilities Services, University Planning, Design, & Construction
John Dooley, Vice President for Outreach and International Affairs
Holli Drewry, Assistant Director of Communications & Marketing, Student Affairs
Debby Freed, Alternative Transportation Manager, Facilities Services
Matt Gart, Landscape Architect
Tim Gift, Associate Director for Facilities Management, Student Programs
Patrick Hilt, University Planning, Design & Construction, Facilities Services
Monica Hunter, Associate Director of Campus Programs, UUSA
Scott Hurst, University Architect
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Cathy Jacobs Director, Virginia Tech Work/Life Resources
Tom Kaloupek, Director of Materials Management, Purchasing
Fred Koziol, Operations Division Manager, Virginia Tech Services
Alex Kosnett, Student Intern
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Leon McClinton, Director, Residence Life
Jim McCoy, Chief of Staff, Facilities Services
Richard McCoy, Manager Parking Services, Facilities Services
Craig Moore, Site Development Manager, University Planning, Design, & Construction, Facilities Services
Byron Nichols, Associate Director Utility Systems, Facilities Services
Chris Piatt, Student Intern
John Randolph, Professor, Urban Affairs & Planning, School of Public & International Affairs
Gene Reed, Manager, Fleet Services, Facilities Services
Scott Reed, Senior Associate Director of Operations, UUSA
Katie Ridgeway, Comprehensive Waste Management Intern Team Captain
Wyatt Sasser, Director of Custodial Services, Facilities Services
Larry Smith, Associate Director of Mechanical/Electrical Systems, Facilities Services
Sarah Surak, Ph.D Candidate, Recycling Consultant
James Torgersen, Facilities Manager, Department of Athletics

Sincerely,

Denny Cochrane, Sustainability Programs Manager, Facilities Services

Angie De Soto, Campus Sustainability Planner, Facilities Services

Fred Selby, Energy Manager, Facilities Services

Executive Summary

The Virginia Tech Office of Sustainability is pleased to present the *2010 Annual Report on Campus Sustainability at Virginia Tech*. The purpose of this report is to provide a comprehensive status of implementation of the Virginia Tech Climate Action Commitment and Sustainability Plan (VTCAC&SP) and to highlight the accomplishments and breadth of sustainability programs at Virginia Tech. The creation of this report also meets the requirement of the Virginia Tech Climate Action Commitment Resolution, Point 13: "The university will monitor energy use and GHG emissions as well as changing internal and external conditions, *prepare an annual 'report card'* showing progress towards targets, and periodically reevaluate targets, making adjustments to targets as appropriate based on changing internal and external conditions and evolving technologies."

The numerous highlights from fiscal year 2010 (FY2010) are summarized below in order of their appearance in the report:

- ✦ President Steger highlighting Sustainability achievements in both his Virginia Tech Annual Report 2008-2009 Message from the President and the "Virginia Tech Year in Review, January 2010" video
- ✦ Creation of the of Director of Energy Initiatives position to lead the university's overall large-scale energy research initiatives
- ✦ 6.0% decrease from calendar year 2006 GHG emissions, normalized for both campus GSF and FTSE population
- ✦ 9.7% decrease from FY2007 annual energy use, normalized for both campus gross square footage (GSF) and climate conditions
- ✦ 10.0% decrease from FY2008 purchased electricity use
- ✦ February free cooling results at Central Chilled Water Plant and satellite chiller plants of 2,502,402 tons, or 91% of total demand
- ✦ Scheduled shutdown of approximately 172 Air Handler Units (AHU's) in 40 buildings and space temperature setback programs netting an estimated \$1.0 million in annual energy savings
- ✦ Virginia Tech's successful enrollment in PJM's Summer Capacity Demand Response Interruptible Load Reduction (ILR) program to receive \$162,000 for a 3 MW load reduction commitment
- ✦ Approved grant for a new solar photovoltaic (PV) installation on the new Perry Street parking garage
- ✦ Henderson Hall Renovation and Theatre 101 project being awarded US Green Building Council (USGBC) LEED Gold certification, achieving the goal of LEED Silver or better, and the first buildings to receive LEED certification on campus and in Blacksburg
- ✦ 36.5% recycling rate in calendar year 2009, already exceeding a recycle milestone rate of 35% by 2012
- ✦ Successful recycling events RecycleMania, Ytoss?, and Green Effect Game
- ✦ Successful introduction of composting to the Owens Hall and Dietrick Dining Facilities
- ✦ Facilities Services Department Custodial Services implementing a LEED-certified Green Cleaning Program and Housing and Dining Services Housekeeping Department being awarded JanPak Level III Clean Zone Certification
- ✦ First Eco-Olympics successfully being held on campus
- ✦ University Common Book Committee successfully incorporating environmental awareness into the common book process for the first time
- ✦ Fifty departments, representing 4,747 employees or two-thirds of the Blacksburg campus work force, participating in the Virginia Tech Green Campus Challenge survey
- ✦ More than 350,000 hours again being pledged and served by students, faculty and staff members, and alumni participating in VT-ENGAGE
- ✦ Virginia Tech again being designated one of the Best Workplaces for Commuters Race for Excellence and receiving a gold award for its Alternative Transportation programs in the Best Workplaces for Commuters Race to Excellence
- ✦ 48% campus alternative transportation use relative to 2009 baseline level of 45%
- ✦ Lumenhaus, Virginia Tech's entry into the 2009 Solar Decathlon and 2010 Solar Decathlon Europe competitions, placing first in the June, 2010 European Solar Decathlon in Madrid, Spain
- ✦ Virginia Tech receiving a Campus Sustainability Report Card 2010 overall grade of "B" from the Sustainable Endowments Institute (SEI), the second consecutive year the university's overall grade has improved
- ✦ SEI recognizing Virginia Tech as a "Campus Sustainability Leader"
- ✦ Virginia Tech placing third among top-scoring state agencies in this year's "Green Commonwealth Challenge"
- ✦ Virginia Tech being recognized by AASHE for their sustainability leadership

Virginia Tech's Climate Action Commitment & Sustainability Plan Implementation Progress

Point 1 – Leadership: “Virginia Tech will be a Leader in Campus Sustainability.”

Background

On April 25, 2008 Virginia Tech President Charles W. Steger charged the newly established Energy and Sustainability Committee with the important responsibility of “developing a Virginia Tech Climate Commitment and Sustainability Plan that is specific to Virginia Tech.” In addition, he directed the Committee to have the draft documents reviewed through the University Governance System, and to have the “Virginia Tech Climate Commitment” placed in resolution format presented to the University Council for action by the end of the 2009 Spring Semester.

The Energy and Sustainability Committee immediately created a Subcommittee consisting of 20 individuals from all facets of the university to conduct appropriate research and to prepare the drafts. The Commission on University Support reviewed and recommended the approval of all draft documentation in March 2009. On Earth Day, April 22, (less than one year from President Steger’s charge) the University Council recommended approval of “The Virginia Tech Climate Action Commitment Resolution” and accepted the accompanying Sustainability Plan. On June 1, 2009, at their regularly scheduled meeting, the Virginia Tech Board of Visitors unanimously approved the 14-point **“The Virginia Tech Climate Action Commitment Resolution”**¹ and accepted the accompanying **“Sustainability Plan”**² (VTCAC&SP). The Sustainability Plan is a living document and provides a way for the university to achieve the points in the VTCAC Resolution. The foundation of the policy is that **Virginia Tech is to become a leader in campus sustainability.**

Ongoing Leadership Support

President Steger continued to show university leadership’s ongoing support in FY2010 by highlighting sustainability achievements in both his Virginia Tech Annual Report **2008-2009 Message from the President**³ and the **“Virginia Tech Year in Review, January 2010”** video.⁴



“The university made huge strides in its effort to become “greener.” The Board of Visitors and the University Council approved the Virginia Tech Climate Action Commitment Resolution and accepting the accompanying Sustainability Plan. The plan calls for, among other things, pursuing LEED Silver certification or better for all new buildings and renovations, a 35 percent recycling rate by 2012, specific targets for reductions in greenhouse gas emissions, reductions in electric usage, and improvements in transportation efficiency.”

Dr. Charles W. Steger
President’s Message

2010 - A Campus Sustainability Leader

Virginia Tech is committed to becoming a national and international leader in campus sustainability. During Academic Year 2009-2010 the university received special sustainability leadership recognition.

First, the Sustainable Endowments Institute’s College Sustainability Report Card 2010 recognized Virginia Tech as a **“Campus Sustainability Leader”** for receiving an average rating of “A-” or better for the six campus operations categories. The Administration, Student Involvement, and Transportation categories received an “A” rating, and the Climate Change & Energy, Green Building, and Food & Recycling received a “B” rating. Only 80 of the 332 colleges and universities surveyed earned this distinction.⁵

¹ <http://www.facilities.vt.edu/sustainability/climateAction.pdf>

² <http://www.facilities.vt.edu/sustainability/sustPlan.pdf>

³ http://www.president.vt.edu/annual-reports/09-10_annual_report.pdf

⁴ http://www.reports.president.vt.edu/2009_year_in_review/

⁵ <http://www.greenreportcard.org/report-card-2010/awards/campus-sustainability-leaders>

Second, Virginia Tech was included in the 2010-2011 edition of Princeton Review's exclusive *"Guide to 286 Green Colleges."*⁶ The guide to 286 U.S. colleges and universities highlights schools that have demonstrated an "exemplary commitment to sustainability." Other Virginia institutions listed in this guide include the College of William and Mary, George Mason University, James Madison University, Radford University, University of Richmond, and the University of Virginia.

Third, Virginia Tech placed third in Virginia's **"Green Commonwealth Challenge"** and was the only higher education institution to finish in the top five.

Energy and Sustainability Committee

The Energy and Sustainability Committee (E&SC), established in 2007, is the University Governance System Committee charged "to review and provide advice to the University Administration on broad policy issues relating to the university's energy supply and use, and resource conservation." It consists of 19 members (6 administrators, 5 faculty, 4 staff, and 4 students)⁷. The E&SC met seven times during the Academic Year 2009-2010.⁸

The three E&SC primary goals for academic year 2009-2010 were:

1. **Revise University Policy 5505 "Campus Energy and Water" to incorporate requirements contained in former Governor Timothy Kaine's Executive Order 82 (2009), "Greening of State Government," effective June 10, 2009.** Status: The policy name was revised to read Policy 5505 "Campus Energy, Water, and Waste Reduction." Revision 2 to Policy 5505 was in the process of being finalized for submission to the approving authority (Vice President for Administrative Services) when current Governor Robert McDonnell issued Executive Order 19 (2010) effective July 1, 2010.⁹ While E.O. 19 (2010) contains many of the requirements in E.O. 82 (2009), the Committee anticipates having to modify Revision 2 to Policy 5505 this fall.
2. **Participate in the Governor's "Green Commonwealth Challenge" which was contained in E.O. 82 (2009).** Status: Complete. See "Point 13 – Annual Report Card", Section "Green Commonwealth Challenge" (p. 26).
3. **Develop and implement the "Virginia Tech Green Campus Challenge" Survey.** Status: Complete. See "Point 8 – Engagement", Section, "Green Campus Challenge" (p. 18).

Point 2 - Strategic Plan: "The university will represent the VTCAC&SP in the Virginia Tech Strategic Plan."

Virginia Tech Strategic Plan Mid-Term Review

The Virginia Tech University Strategic Plan is updated every six years to reaffirm the university's commitment to achieving excellence as a comprehensive, land-grant university that makes innovative contributions in learning, discovery, and engagement to the Commonwealth of Virginia, the nation, and the world. While the current 2006-2012 University Strategic Plan update did not specifically address sustainability issues per se, a 2009 mid-term review recommended the creation of a high-level position to strategically and pro-actively lead the university's overall large-scale energy initiatives effort as a top priority.¹⁰ As a result, a new position, **Director of Energy Initiatives** was created.

Point 3 - GHG Emissions Inventory: "Virginia Tech will establish a target for reduction of campus GHG emissions to 80% below 1990 emission level by 2050, and interim targets from 2006 emissions of 316,000 tons consistent with the Virginia Energy Plan, the Governor's Commission on Climate Change, the Town of Blacksburg, and the federal administration: for 2012, 295,000 tons (on path to 2025 target); for 2025, 255,000 tons (2000 emission level); and for 2050, 38,000 tons (80% below 1990 emission level)."

2006 Inventory

In 2007, students in Urban Affairs & Planning at Virginia Tech conducted a comprehensive energy and GHG inventory for the Town of Blacksburg and Virginia Tech¹¹ and determined total GHG emissions for calendar year 2006 to be **316,000 tons** of CO₂ equivalent. Although coal, natural gas and purchased electricity each represented approximately one-third of campus energy sources consumed in 2006, purchased electricity contributed the majority of emissions at 60%, with campus coal at 21%, natural gas at 8%, and commuting at 8%. The remaining emissions resulted from solid waste at 1%, water/wastewater at 0.9%, VT fleet at 0.6%, and VT aviation at 0.3%.

⁶ <http://www.princetonreview.com/green-guide.aspx>

⁷ http://www.facilities.vt.edu/sustainability/e_s_roster_10.pdf

⁸ http://www.facilities.vt.edu/sustainability/meeting_minutes_09-10.pdf

⁹ http://www.governor.virginia.gov/Issues/ExecutiveOrders/pdf/EO_19.pdf

¹⁰ http://www.provost.vt.edu/documents/provost_response_1_08_10.pdf

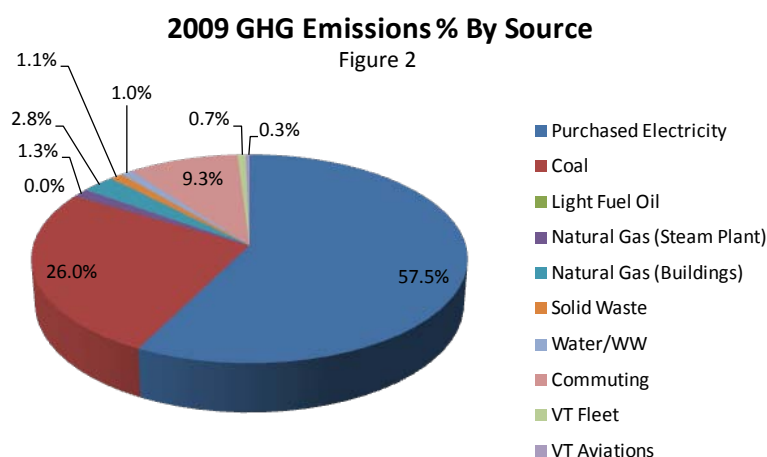
¹¹ http://www.facilities.vt.edu/sustainability/GHG_Emissions_Inventory.pdf

GHG Emissions Trend

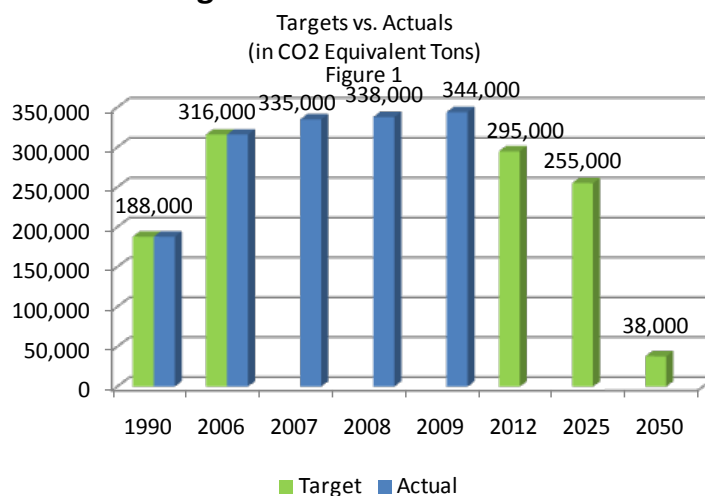
Figure 1 shows an increasing, but leveling, GHG emissions trend to date, including a slight increase of emissions in the 2009 calendar year over recent years to **344,000 tons**, an 83% increase from the original 1990 baseline and a 1.8% increase over 2008.

2009 Inventory and Analysis

The calendar year 2009 inventory result of 344,000 tons represents an increase of 28,000 tons, or 8.9% in total GHG emissions over the 316,000 tons from the 2006 inventory. One significant driver for the increase was the intentional maximizing of the campus Central Power Plant's coal-burning capability to meet budget commitments; however, this was for the most part offset by emissions reductions resulting from achieved reductions in 2009 campus energy usage. In 2006, coal accounted for 75.0% of total boiler fuel input on a per-Btu basis, while lower GHG-emitting natural gas accounted for 24.6% and fuel oil the remaining 0.4%. In 2009 however, coal Btu percentage of total boiler fuel input increased to **92.8%**, while natural gas decreased to only 6.2%, and fuel oil at the remaining 1.0%. For comparison purposes, on a per-Btu basis, coal-related GHG emissions are 85.4% greater than that of natural gas and 31.6% greater than that of fuel oil. Figure 2 shows that in 2009, purchased electricity continued to be by far the predominant GHG emissions category.



Virginia Tech GHG Emissions



Two additional factors contributed to the overall GHG emissions increase for 2009 over 2006 - campus gross square footage (GSF) and student population (FTSE); per Table 1 below, 2009 GHG emissions, when normalized for both campus GSF and FTSE population actually have been **reduced by 6.0%** since 2006. Regardless, the VTCAC&SP commits the university to **absolute GHG reductions**, which must be the continuing focus.

Table 1: 2009 vs. 2006 Emissions Normalized for GSF and FTSE

	2006	2009	% Change + or ()
Total Emissions (tons CO ₂ e)	316,000	344,000	+8.9%
Full-Time Student Equivalents (FTSE)	28,622	30,181	+5.4%
Emissions / FTSE	11.04	11.40	+3.2%
Campus GSF (M-GSF)	7,650,213	8,403,343	+9.8%
Emissions / 1,000 GSF	41.31	40.94	(0.9%)
Emissions / FTSE / 1,000,000 GSF	1.44	1.36	(6.0%)

Point 4 - GHG Emissions Reduction: “Virginia Tech will work toward these emission reduction targets through improved energy efficiency, reduction of energy waste, replacement of high-carbon fuels, and other measures identified in the VTCAC&SP.”

Energy Usage

Overall Usage Trends

Virginia Tech is a comprehensive, innovative research university with the largest full-time student population in Virginia. Its Blacksburg campus includes more than 138 buildings occupying more than 8.4 million gross square feet (GSF). During FY2010, the Virginia Tech campus consumed over **1.893 trillion Btu's** of coal, natural gas (Central Power Plant only), fuel oil and purchased electricity, representing a 1.23% increase over FY2009 and a 13.69% increase over FY2006. Figure 4 shows this steadily increasing overall consumption over the most recent five-year period. However, similar to the GHG emissions analysis, other factors must be considered.

Since FY2006, the Virginia Tech campus footprint has grown from 7,503,425 gross square feet (GSF) to 8,403,343 in FY2010, a 12% increase. Recent E&G building additions such as the **Institute For Critical Technologies & Applied Sciences (ICTAS) I** (99,411 GSF), **Life Sciences I** (71,799 GSF) and **Bishop-Favrao Hall** (31,651 GSF) are state-of-the-art research facilities and therefore inherently energy-intensive. New fully-air conditioned auxiliaries additions including **New Hall West** residence (92,800 GSF), **Hahn-Hurst Basketball Practice Facility** (52,944 GSF) and **Football Locker Room** (42,145 GSF) have also added significant electrical load to the campus. **ICTAS II** (42,190 GSF) is currently under construction with project completion scheduled for December 2010.

The winter of 2009-2010 was one of the coldest and most severe in recent Blacksburg history. The eastern United States encountered winter storms almost weekly during the months of December, January and February. Through FY2010, Blacksburg experienced **5,260 Heating Degree Days** (HDD's, a quantitative index used to reflect climate severity, calculated by subtracting mean daily temperature from a 65°F balance temperature and summing only positive values over an entire year), a 3.16% increase over FY2009 and a 11.99% increase over FY2006.

Normalizing campus energy use for both building GSF and annual HDD's, figure 5 instead shows a steadily decreasing energy consumption trend over the previous three years since energy conservation efforts began in earnest and a **9.67% reduction** in FY2010 over FY2007.

Energy Fuel Source Trends

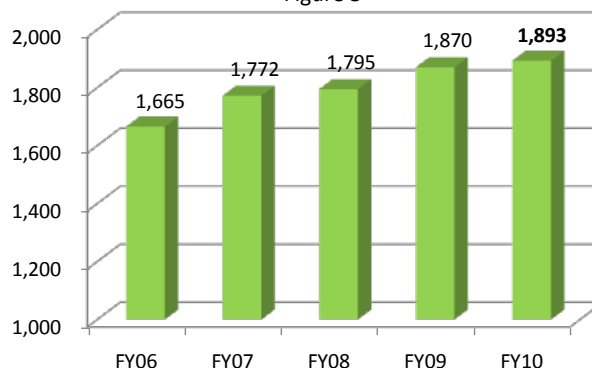
Virginia is a net exporter of coal, and coal mining continues to be a significant economic driver of the Southwest Virginia economy. Virginia Tech's Central Power Plant, which provides district steam for heating and process needs to the majority of campus buildings, reflects that fact with its 200,000 pounds per hour of coal-fired steam generating capacity.

For FY2010, natural gas and fuel oil continued to cost significantly more on a per-Btu basis than coal. With the university facing multi-million dollar reductions in its FY2010 operating budget, Facilities Services opted beginning in FY2009 to maximize coal-firing steam generation for the immediate future, coupled with continued energy conservation and efficiency improvement efforts. Figure 6 shows the resultant increase in per-Btu coal consumption over the most recent three year period relative to natural gas and fuel oil. Figure 7 provides a detailed energy fuel source percentage per-Btu breakdown for FY2010. While the campus currently relies heavily on coal as a cost-effective fuel source, it does so in an environmentally-responsible manner and in full compliance with all existing state and federal regulations.

Campus Energy Use*

Coal, Oil, Natural Gas, Purchased Electricity
(In Billions Btu's)

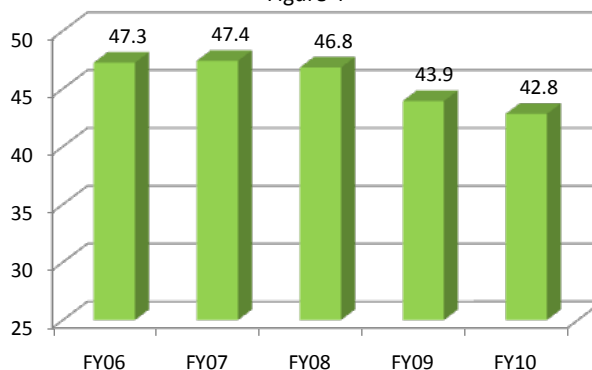
Figure 3



Campus Energy Use* - Normalized

Normalized to Building GSF and Heating Degree Days
(In Btu's per GSF per HDD)

Figure 4



* Numbers do not include unmetered natural gas to individual building package boilers; FY2010 coal, oil, and natural gas numbers based on projected 12-month usage

By comparison, American Electric Power's (AEP) electrical generation capacity by fuel source in 2009 was coal at 66%, natural gas/oil at 22%, nuclear at 6%, and hydro/pumped storage/renewable at 6%.¹²

Purchased Electricity Reduction

Figures 6 and 8 also show a continuing decrease in annual purchased electricity use resulting from conservation efforts combined with a slight increase in self-generation at the Central Power Plant. Both results support VTCAC&SP goals to "Reduce purchased electricity by 10% from 2008 by 2012" and "Increase steam plant electric generating capacity." FY2010's purchased electricity use of 169,110 MWh's represents a **10.0% decrease** over FY08's 187,807 MWh's.

Virginia Tech Policy 5505

Virginia Tech Policy 5505, *Campus Energy and Water*, continues to provide the foundation for the university's goal to "achieve the highest standards in energy/water usage with consideration of the impact on environmental quality and economic performance."¹³ Policy 5505 contains procedures for Efficiency and Conservation, Facility Design, Building Operation and Maintenance, Transportation, Billing, Point of Contact, Energy and Sustainability Committee, University Departments and Regulatory Agency Contracts, and Implementation and Compliance.

Chilled Water Supply Optimization

In July 2009 the **Chilled Water Infrastructure Master Plan Study** was completed. The study recommended consolidation of Virginia Tech's existing combination of district and decentralized/stand-alone chilled water networks into a total of five regional center chilled water production plants, joined to an interconnected distribution network. The five regional plants would consist of: (1) the existing Central Chilled Water Plant, renamed the North Chiller Plant (NCP); (2) an expanded Dietrick Chilled Water Plant (DCP); (3) a new Perry Street Chilled Water Plant servicing the Northwest (NWCP); (4) a new Northeast Academic Core Chilled Water Plant (NECP); and (5) a new Southwest / Life Sciences District Chilled Water Plant (SWCP). The project proposed \$46 million in present value savings 30-year life cycle over the current stand-alone chiller expansion approach. Currently, design of new Southwest Chiller Plant is underway, with a Construction Manager at-Risk having been selected and a request for construction funding having been submitted to the state; construction is anticipated to begin once construction funding is appropriated by the state. In addition, chilled water sourcing for planned new construction projects such as the Academic & Student Affairs Building and Performing Arts Center will be considered in view of this master plan.

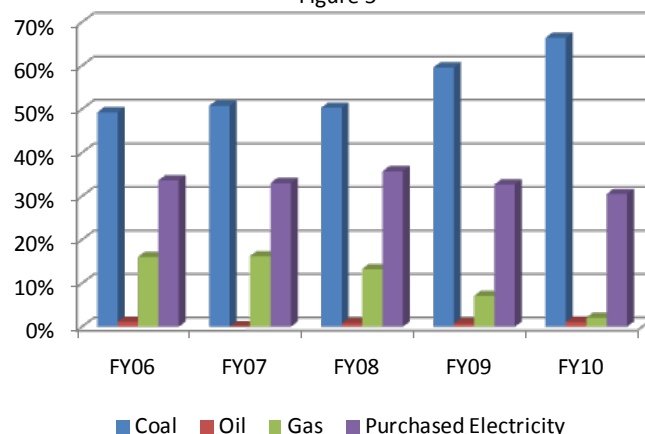
¹² <http://www.nxtbook.com/nxtbooks/aep/accountability2010/#/34>

¹³ <http://www.policies.vt.edu/5505.pdf>

Campus Energy Use*

By Percent Energy Source

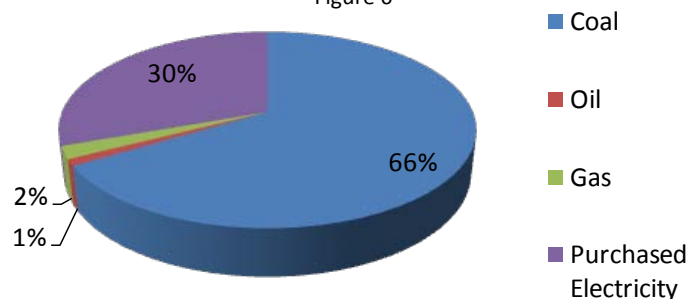
Figure 5



Campus Energy Use*

By Percent Energy Source - FY2010

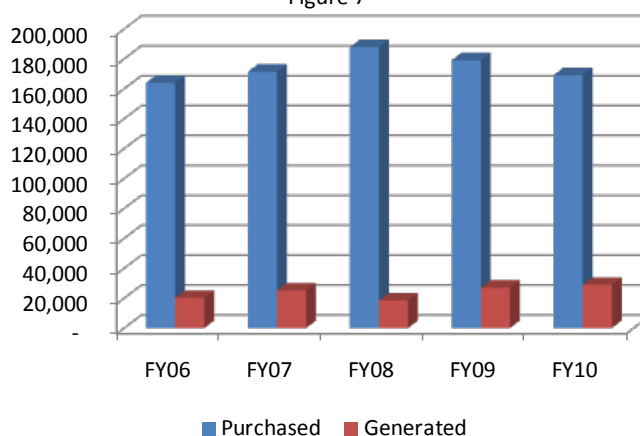
Figure 6



Campus Electricity Use

Purchased vs. Self-Generation (in MWh's)

Figure 7



* Numbers do not include unmetered natural gas to individual building package boilers; FY2010 coal, oil, and natural gas numbers based on projected 12-month usage

During the 2009-2010 winter, Virginia Tech utilities personnel took advantage of the cold temperatures to maximize **free cooling** opportunities at the Central Chilled Water Plant and satellite chiller plants. Free cooling uses the colder cooling tower condensing water to create the refrigeration cycle with no energy having to be expended in the chiller's compressor. Free cooling-related record keeping began on January 15, 2010. Results for the 2nd half of January were 543,067 tons from free cooling, or 54% of total chilled water tonnage demand. Results for February were **2,502,402 tons** of free cooling, or **91%** of total demand. Free cooling season ended in early March and will resume this winter.

Air Handler Unit Shutdowns

Beginning in May 2009 procedures were implemented to shut down campus air handling units (AHU's) during unoccupied periods, primarily third shift on weekdays and extended hours on weekends. Since the program's inception in May, 2009, AHUs have been gradually added to the shutdown list. Approximately 172 AHU's in 40 buildings have been included. Preliminary calculations show an estimated savings of **\$181,500** for the 2009 cooling season due to reductions in electricity and chilled water usage.

For the first time, beginning in the fall of 2009, the University aggressively pursued AHU shutdowns during holiday and break periods. Preliminary calculations show an estimated combined electrical and steam savings for Thanksgiving Break and Winter Break periods as **\$372,470**.

In addition to resuming cooling season scheduled HVAC shutdowns in May, the number of summer scheduled buildings was increased from 25 in 2009 to approximately 50 in 2010; also, the number of scheduled-off hours was increased from 72 hours per week to approximately 80 hours per week. Most recently, building owners from 11 buildings identified areas mostly unoccupied during the summer in their buildings, allowing 38 AHU's to be shut down during peak demand periods and reducing summer billed demand by an average of 766 kW. Total AHU-related estimated annual savings are **\$700,000**.

Space Temperature Setbacks

Space temperature setpoints adjustments back to 68 degrees for the heating season and 74 degrees for the cooling season implemented campus-wide in December, 2008 continued throughout FY2010, for an estimated **\$300,000** annual savings.

Electrical Demand Response

Electric demand response refers to large energy users reducing or shifting their electric demand during periods of unusually high aggregate electric demand and/or wholesale electricity prices. The U.S EPA recognizes electrical demand response as one of several "cost-effective strategies for reducing peak electric demand, achieving air quality benefits, and contributing to electric supply reliability."¹⁴ PJM Interconnection (PJM), the regional transmission organization (RTO) that manages the high-voltage electric grid and wholesale electricity market serving Virginia, 12 other states and the District of Columbia, currently offers two types of demand response programs to Virginia customers.

Virginia Department of Mines, Minerals and Energy (DMME) has selected EnergyConnect, Inc., a third-party Curtailment Service Provider to administer PJM's demand response programs in the Commonwealth. During FY2010 EnergyConnect enrolled Virginia Tech in both PJM's **Summer Capacity Demand Response Interruptible Load Reduction (ILR)** and **Economic Demand Response** programs. For the ILR program, Virginia Tech committed to a 3MW demand reduction in the event of a significant grid event in exchange for a **\$162,000 benefit** to be paid during FY2011. As a requirement for the enrollment process, Virginia Tech successfully demonstrated a one hour-long 3MW load reduction test on June 24. EnergyConnect also enrolled Virginia Tech in PJM's Economic Demand Response program effective July 1, 2010, which will compensate the university when it electively reduces energy consumption during select hours when wholesale electricity rates are high. To facilitate Virginia Tech's participation, Siemens and EnergyConnect have partnered to develop a web-based interface utilizing the existing Siemens Building Automation System (BAS) that will provide EnergyConnect with real-time demand data originating from Virginia Tech Electrical Services (VTES). Although a detailed demand reduction plan has yet to developed, July's wholesale electricity rates exceeding \$0.20/kWh on several occasions demonstrate the financial potential that exists with this program.

Alternative and Renewable Energy Sources

While renewable energy sources are not currently used, approval for the funding of a new solar **photovoltaic (PV) installation** on the new parking garage was announced on Earth Day, April 22. The PV system will tentatively generate approximately **148,000 kWh/year**, cost an estimated \$1.3 million, and will provide approximately 14.1% of the total energy needs of the structure. The system will physically cover approximately 12,440 ft² or 14% of the top deck.

Preliminary discussions have taken place this year between the Virginia Tech Office of Sustainability, utilities staff, and faculty from the College of Engineering's Department of Mining & Minerals Engineering to explore the application potential of dewatered coal fines from abandoned waste coal slurry ponds as a fuel source for Virginia Tech coal boilers, either alone, or in combination with biomass (switchgrass).

¹⁴ http://www.epa.gov/statelocalclimate/documents/pdf/hedd_clean_energy_options.pdf

Point 5 - Office of Sustainability: “Virginia Tech will establish an Office of Sustainability to: a.) Coordinate programs for campus sustainability; b.) Oversee implementation of the VTCAC&SP; c.) Monitor annual electricity and other energy use and GHG emissions, and d.) Working with faculty and departments, manage a campus-wide student internship and undergraduate research program using the campus as a sustainability laboratory.”

Office of Sustainability

The Office of Sustainability was established in 2009 under the Facilities Services Department and serves as an information clearing-house, coordinating continuous discussion between the various administrative units, administrators, facility infrastructure and operational groups, and students. Currently, the Office of Sustainability currently consists of six full-time employees: Sustainability Program Manager; Energy Manager; Campus Sustainability Planner; Graduate Assistant; and two Green Team Coordinators. In addition, numerous staff and faculty employees and both paid and unpaid student interns campus-wide support sustainability initiatives as liaisons, coordinators of specific sustainability programs, or leaders of departmental curriculum efforts.

The Office of Sustainability established a student sustainability internship program in 2009 and the program continues to grow each semester. During FY10 interns focused on implementation of the VTCAC&SP and coordination of student sustainability education and worked on projects involving Comprehensive Waste Management, Annual Report Data Collection and Graphic Design, Attitudes and Awareness Assessment, and Electronic Media Strategies.

Office of Sustainability Website

The Office of Sustainability website¹⁵ was created to be the central clearinghouse for Virginia Tech sustainability-related news and information. It is updated regularly and provides current status on ongoing sustainability initiatives, activities and events. The website provides a venue for viewers to communicate with Office of Sustainability staff on initiatives, ask questions about programs, and submit new project ideas. Interns spent time this spring identifying Office of Sustainability website best practices and made recommendations for improvements that will be incorporated into a major website update planned for the following academic year.



Point 6 – LEED Certification: “Virginia Tech will pursue LEED Silver certification or better and exceed ASHRAE 90.1 2004 energy performance by 35% (ASHRAE 90.1 2007 by 30%) for all new buildings and major renovations. Capital budgets should account for future energy price, cost of building operation, return on investment, and environmental benefits of achieving this level of performance.”

Henderson Hall Renovation and Theatre 101 Addition Project

The Henderson Hall Renovation and Theatre 101 Addition projects were awarded the US Green Building Council (USGBC) LEED (Leadership in Energy and Environmental Design) **Gold certification** on February 5, 2010 for their sustainable energy use, lighting, water and material use as well as incorporating a variety of other sustainable strategies.



LEED Gold-Certified Henderson Hall Renovation



President Steger Delivering an Earth Day 2010 Message in Front of the New LEED Gold-Certified Theater 101 Addition

¹⁵ <http://www.facilities.vt.edu/sustainability/>

The buildings are the first to receive LEED certification on campus and in Blacksburg. President Steger unveiled a US Green Building Council LEED Gold Rating Plaque for each building during an Earth Day 2010 Celebration Ceremony on April 22.

Virginia Green Program

The “Virginia Green” program¹⁶ works to reduce the environmental impacts of Virginia's Tourism Industry. It is run as a partnership between the Virginia Department of Environmental Quality, the Virginia Tourism Corporation and the Virginia Hospitality and Tourism Association. The Inn at Virginia Tech is certified as “Virginia Green Lodging” facility and the Skelton Conference Center is certified as a “Virginia Green Conference Center.”

Future LEED Projects

The university currently has 11 additional projects totaling over 1 million GSF currently registered with the USGBC, with six currently under construction and five in the design phase:

Buildings Under Construction (581,855 GSF):

ICTAS II (42,000 GSF)
 Ambler Johnston Residence Hall Renovation (272,000 GSF)
 Academic and Student Affairs Building (91,200 GSF)¹⁷
 Visitors and Undergraduate Admissions Center (18,155 GSF)
 Football Locker Room Addition (38,500 GSF)
 Center for the Arts (120,000 GSF)¹⁸

Buildings In Design Phase (422,000 GSF):

Signature Engineering Building (160,000 GSF)
 Virginia Bioinformatics Institute Addition (50,000 GSF)
 Human and Agricultural Biosciences Building (92,000 GSF)
 Davidson Hall Chemistry Renovation (50,000 GSF)
 Myers Lawson School of Construction Phases II and III (70,000 GSF)

Point 7 - Energy Efficiency: *“Virginia Tech will improve electricity and heating efficiency of campus facilities and their operations, including the heating and cooling infrastructure and operation, lighting efficiency, controls and operation, and equipment efficiency and controls.”*

Lighting Retrofits and Occupancy Sensors

Further large-scale progress on lighting upgrades was minimal during FY2010 due to budgetary constraints and was limited primarily to new construction and building renovation projects. Projects to retrofit or replace fixtures in Engel and Roberson Halls were completed in spring 2010, while other projects remain on hold due to unavailability of funds. The Sterrett Facilities Center lighting conversions are being completed as spaces are renovated. Similarly new installations of occupancy sensors are on hold pending funding availability.

ESCO Performance Contracting

In January, Pepco Energy Services (Pepco), selected to be the Phase 1 Energy Services Company (ESCO) for Virginia Tech submitted their Technical Audit to the university. The Technical Audit verified and expanded upon the savings of the “Back of the Envelope Proposal” submitted in March, 2009 for six initial campus buildings (Central Power Plant, Cassell Coliseum, Dietrick Hall, Pritchard Hall, McBryde Hall, and Hahn Hall-South). The Technical Audit also provides a basis for an energy performance contract with a detailed and specific scope of work with measurable and verifiable energy and water savings.

Pepco proposed \$11.7 million of Energy Conservation Measures (ECM), with \$0.88 million in annual energy savings totaling over \$19 million over the 15-year contract term, a 21.1% guaranteed reduction in energy and a 8.3% reduction in water consumption. Environmentally, the proposed ECM's in total would reduce annual GHG emissions by approximately 4,514 tons. Facilities staff has reviewed the list and will recommend eliminating some of the lowest-return ECM's for a revised \$8.7 million Phase 1 ESCO project with projected annual savings of \$0.83 million for a 10.5-year simple payback; a presentation for final review is currently under development.



McBryde Hall



Pritchard Hall



Cassell
Coliseum



Dietrick Hall



Hahn (South)
Hall



Central
Power Plant

¹⁶ <http://www.deq.state.va.us/p2/viriniagree/>

¹⁷ http://www.pdc.facilities.vt.edu/mediawiki/index.php/File:Acad_Stu_Afrs_Aug_09_Page_1.jpg

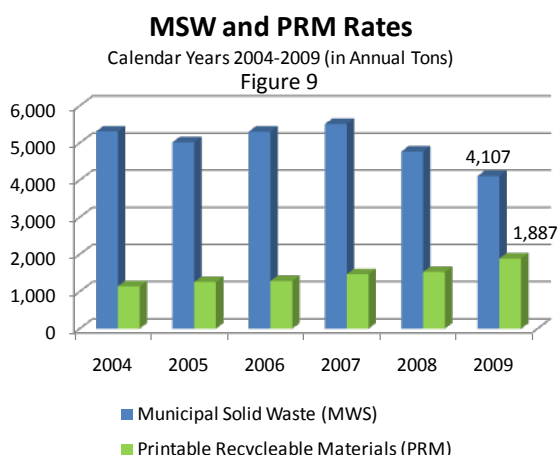
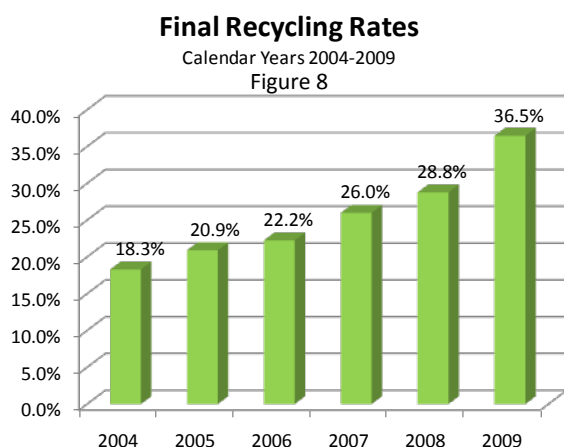
¹⁸ <http://www.vtnews.vt.edu/articles/2010/06/2010-477.html>

Point 8 - Waste Minimization: “The university will adopt at least 4 reduction measures in the Waste Minimization component of the national RecycleMania competition. Virginia Tech Recycling will adopt a goal of 35% recycle rate by 2012 and 50% by 2025.

Recycling

Waste and Recycling Trends

Having achieved a 2009 recycling rate of **36.5%**, Virginia Tech has already exceeded its recycle milestone rate of 35% by 2012 and is on pace to meet or exceed its 50% recycle rate goal by 2025. Figures 8 and 9 show continuing favorable rate trends in overall recycling increase, municipal solid waste (MSW) reduction, and printable recyclable materials (PRM) increase.



In addition, more than 10,300 tons of new construction and demolition waste for capital and renovation projects was diverted at a rate of **75.8%**.

RecycleMania Competition

For the fourth consecutive year, Virginia Tech successfully participated alongside of more than 600 colleges and universities nationwide in the 2010 RecycleMania tournament. University highlights included a **6.6% increase** in cumulative recycling rate, a **7.3% increase** in pounds of recycled material, and a **4.7% decrease** in pounds of trash generated. Additionally, Food Service composting pounds tripled and waste generation significantly lowered as the result of Dining Services’ recycling efforts. In general the university ranked in the middle of the pack when compared to institutions within the ACC and the Commonwealth of Virginia in all categories. Results are available on the RecycleMania website.¹⁹

Ytoss?

The YMCA at Virginia Tech, Virginia Tech's Office of Sustainability, the Department of Residence Life, the Town of Blacksburg and other campus and community-based organizations again partnered for this year's Ytoss? event²⁰. The program is a recycling event that collects gently-used items students often “toss” during move-out, including TVs, electronics, microwaves, refrigerators, furniture, rugs, clothing, hutches, and fans. Non-refrigerated foods, paper products, and laundry detergent are collected and donated to a local food bank. This year, **9.86 tons** of materials were diverted from the landfill and the program received the University Student Leadership Award for “**Outstanding Achievement by an Organization**” in April 2010. Ytoss? not only reduces move-out related dumping fees it provides a substantial fundraising opportunity for the YMCA at Virginia Tech’s leadership development programs.

Waste Management Planning

Virginia Tech is one of the five jurisdictional members of the Montgomery Regional Solid Waste Authority (MRSWA). During Academic Year 2009-2010 the university participated in the comprehensive process of updating the “MRSWA Solid Waste Management Plan.”²¹ The plan was approved by the Board of Directors on March 18, 2010.

¹⁹ <http://www.recyclemaniacs.org/Index.htm>

²⁰ http://www.facilities.vt.edu/sustainability/ytoss_2010_summary.pdf

²¹ http://www.mrswa.com/assets/MRSWA_SWMP.pdf

In the past, Virginia Tech trash and recycling were managed by several independent departments. In January, a Waste Management Taskforce was formed to begin development of a **Comprehensive Waste Management Plan**. The plan will document current waste management practices and consolidate currently decentralized policies for managing trash, recyclables, and special materials such as construction debris, compostable material, and special events waste. The plan will outline short-term, medium-term and long-term university waste reduction goals and will be updated on an annual basis or as needed.

This past year, a diverse, undergraduate student intern team collected waste and recycling data in 50 buildings across campus. Following the team's analysis of current bin locations, location efficiency, signage needs, and overall contamination issues, recommended best approaches to managing waste and recycling for each building were submitted in a detailed report (copies of this report are available through the Office of Sustainability.) The intern team's recommendations will be incorporated in the Comprehensive Waste Management Plan.

Recycling at Hokie Home Football Games

At Virginia Tech's 2009 football season home opener with Marshall, the SGA Sustainability Committee and the Environmental Coalition partnered to conduct a **waste audit** in the tailgating parking lots and determined that approximately 50% of the items placed in trash containers during the game were recyclable. Tailgaters cited reasons for lack of recycling such as (1) not enough recycling receptacles available, (2) receptacles not in central enough locations, and (3) not knowing recycling was available. Student leaders are spearheading an effort to develop an in-stadium and tailgating recycling and fan engagement program for 2010 home football games.

The SGA and Athletic Department designated the Virginia Tech-Nebraska game on September 19, 2009, as the first **Green Effect Game**. The SGA, along with nearly 150 student volunteers visited all designated parking lots encouraging tailgaters and fans to recycle and to distribute recycling bags. As the result, there was an estimated **70% increase** in recycled material collected at the Green Effect Game over the 1.05 tons of recycled material collected during the previous Saturday's Virginia Tech-Marshall game. The 2010 Green Effect Game will be the Virginia Tech – East Carolina game on September 18 and will be the kickoff event for Sustainability Week 2010.

Food and Dining

The Farms and Fields Project and Local Foods

The Farms and Fields Project first opened in Owens Food Court in January of 2008 to provide sustainable, organic and local options. In addition, local products are being integrated into other Dining Centers. A Dining Services-run garden has been expanded to one acre of vegetable production and produce generated will be used in Farms and Fields and other dining facilities on campus. To further integrate local foods into the offerings in dining facilities, Homestead Creamery, a family-owned business in southwest Virginia, meats and ice creams are available in multiple locations.

Dining Services incorporated its own sustainability campaign into New Student Orientation meals. A display was placed in D2 for orientation breakfast and dinner, reaching all incoming students and their families during their first meal. The display highlighted composting efforts at the dining facility, the Dining Services Garden harvest present at the meal (local and sustainably managed produce), and the ability to reserve a reusable bottle for use in the fall through the "Plant the Seed for Sustainability Campaign." Additional signage and tablecards were posted throughout the facility.



A life-sized water bottle display greets visitors from the Pritchard-side entrance, letting them know that "every drop counts" to Virginia Tech Dining.

Composting

Dining Services completed a highly successful composting pilot program at their Southgate Food Processing Facility and expanded composting to the Owens Hall Dining Facility at the beginning of the 2009 Fall Semester. Composting was introduced to the Dietrick Dining Hall this summer with the goal of having composting at all on-campus dining facilities in the near future. Poplar Manor Enterprises (PME) in Riner, Virginia, the first composting facility in the region, composted **131 tons** of Virginia Tech's dining hall waste in calendar year 2009. Pre-consumer food scraps for 100% of meals prepared on campus are now composted.

Waste Recycling, Reduction, Diversion and Donation

Dining Services has initiated a variety of initiatives in dining halls to reduce food waste, including encouraging the use of reusable dishware and conducting a food waste audit. Dining Services initiated tray-less dining in "all you care to eat" facilities - Shultz and D2 - in 2008 following a successful test week in April during which trays were removed from the D2 dining center. The pilot study resulted in approximately a **30% reduction in food waste**, or the equivalent of **1,546 pounds of food**.²² Additionally, Dining Services is developing a comprehensive waste tracking system for employees to assess and adjust overproduction, prep, and other waste to more effectively reduce, donate, and divert food waste. This program will be piloted in summer and fall 2010. Dining Services is working on providing recycling for mixed paper and commingled containers to customers in all dining centers and equipping kitchens with recycling receptacles for staff use. Dining Services has selected a specific reusable bottle design that meets all food service standards for use in a la carte dining facilities for free water and discounted fountain drinks. The bottle was piloted during Earth Week 2010 and was made available for reservation during New Student Orientation.

A food donation initiative began during the 2009 spring semester and was expanded during the 2009 fall semester. Edible un-eaten food is currently being diverted from trashcans in the dining halls to the local non-profit organization Feeding America. All grab-n-go and individually packaged items not sold within the time period for quality standards yet still safe for consumption are donated daily. Dining Services additionally piloted "hot food diversion" this year in the D2 facility. Plans are to expand this type of diversion throughout dining centers on campus.

Campus Landscape and Grounds

Tree Canopy

The Arbor Day Foundation selected Virginia Tech for "Tree Campus USA" Status in 2008 and subsequently approved its yearly application for recertification. As of April 22, 2010, 252 trees had been planted this fiscal year (153 of them planted by students) with a goal to increase the canopy by at least 100 trees per year. The Department of Horticulture's Urban Horticulture Center provided 74 native trees that were planted by student volunteers during the Earth Week 2010 tree planting event and 54 trees planted by students during the 2009 Sustainability Week Planting. Individual classes planted the remainder of the student trees.

Stormwater Management

Low impact development (LID) design is being incorporated into all new building and parking projects. Past projects utilizing LID techniques include the bioretention filters at New Residence Hall, Henderson Hall and Theater 101. Future projects incorporating LID into stormwater management (SWM), include West End, Visitors and Undergraduate Admissions Center, and Academic & Student Affairs Building. A team of interns is helping to develop individual project Hydrologic and Hydraulic models, which will then be incorporated into a comprehensive model. A goal of 60% of the campus modeled by October 2010 has been set.



Students show that teamwork is key when planting trees to increase the campus carbon sink.

Point 9 – Procurement: *“Virginia Tech will require purchase of Energy Star rated equipment, maximum practicable recycled-content paper, and other low life-cycle cost products, with exceptions for special uses.”*

Purchasing Policies and Practices

Sustainability product purchase guidelines to support Environmentally Preferable Purchasing (EPP) are currently under development. Upon the approval of the latest revisions of Policy 5505, Virginia Tech will require that all purchases of equipment for which Energy Star ratings are established must meet Energy Star ratings unless specific use of the product requires otherwise. This policy will also require that all purchases of copy paper contain a minimum of 30% post consumer waste (PCW) content.

Green Cleaning

In January 2010, Custodial Services, within the Facilities Services Department, implemented a **Green Cleaning Program**. The LEED-certified cleaning program was approved for the Henderson project and will be standard for future projects. Chemical dispensing systems have been installed in close to 50% of the E&G buildings on campus with Custodial Services planning to install more each quarter. Equipment now being used and purchased is more sustainable. Three Nobles floor scrubbers that do not use cleaning

²² <http://www.vtnews.vt.edu/articles/2008/06/2008-421.html>

chemicals but instead convert ordinary tap water into a powerful cleaning agent instead of have been purchased. In addition, floor cleaning practices now use micro fiber mops and cloths to increase efficiency and reduce waste and upright vacuums are highly energy efficient.

In May 2010, for their Green Cleaning initiatives, the Housing and Dining Services Housekeeping Department was awarded the **JanPak Level III Clean Zone Certification**, the first such certification awarded in a university setting²³. This program is made available through JanPak Janitorial Solutions and is a unique certification program designed to create a healthier environment through the implementation of sustainable cleaning products, systems and programs.

Point 10 – Campus Engagement: *“Virginia Tech will engage students, faculty and staff through education and involvement to reduce consumption of energy, water, and materials in academic and research buildings, dining and residence halls, and other facilities.”*

Engaging Students

Student Involvement and Organizations

Numerous student organizations currently either focus on campus sustainability or have a working group within their organization that works on sustainability issues. Examples include Beyond Coal at Virginia Tech, Soil and Water Conservation Society, Environmental Coalition, Student Government Association, Mountain Justice Blacksburg, SUSTAIN (themed housing), Office of Sustainability Green Team, Virginia Tech Sustainable Food Corps, Poverty Awareness Coalition for Equality, YMCA Student Programs / YToss?, Residential Hall Federation, and Young Democrats.

New and Transfer Student Orientation

The Office of Sustainability participated in 2009 orientation events for both new and transfer students. The office manned a booth at the orientation’s Hokie Resource Fair, prepared and distributed four separate handouts about various sustainability topics, and led an information session for all orientation leaders.

The Office of Sustainability also participated with a booth at **Gobblerfest 2009**, the annual welcome festival for students, staff, faculty and community members. The Office of Sustainability was one of over 370 student organizations, businesses, non-profits, and Virginia Tech departments to participate and the event was attended by more than 18,000 students and community members.

Eco-Olympics

The first **Eco-Olympics** was held this spring from March 29 through April 30. Eco-Olympics focuses on reducing energy consumption and engaging students to develop sustainable behaviors. Residence Halls receive points by having the lowest per-capita energy consumption and by participating in various events throughout the month-long competition. On-campus housing buildings are separated into five categories to help normalize the data: large, medium, small, air-conditioned, and Oak Lane. The Eco-Olympics website²⁴ is updated every week during the competition to show point totals, kWh consumed, and GHG emission reductions for students to track their hall’s weekly progress. A winner is declared in each of the five categories and a Grand Champion is selected based on overall effort at the end of the month. The event kicked off with Earth Hour 2010, where Virginia Tech joined communities across the world to turn off all non-essential lighting for one hour as a show of support for climate change action.

Congratulations to the 2010 Eco-Olympics Winners:

- ✦ Grand Champion: West Ambler Johnson (Large category)
- ✦ Medium: O’Shaughnessy
- ✦ Small: Hillcrest
- ✦ AC: New Hall West
- ✦ Oak Lane: Tri Delta

Dr. Leon McClinton, Director of Residence Life, (second from left) with the award winners and event organizers. Congratulations to West Ambler Johnston Residence Hall for being our “Grand Champion.”



²³ <http://www.janpak.com/story.aspx?sid=27&pid=1&id=9>

²⁴ <http://www.housing.vt.edu/saveenergy/>

Earth Week 2010

The Environmental Coalition student organization organized *Earth Week 2010* this spring with workshops, live music, guest speakers, displays and roundtable discussions.

The Common Book Project

The University Common Book Committee²⁵ successfully incorporated environmental awareness into the common book process for the first time by selecting Daniel Goleman's *Ecological Intelligence* for academic year 2009-2010. In conjunction with the university selection, the Blacksburg Town Council also selected Goleman's book as the first ever "Town Common Book." Dr. Goleman gave the keynote address for Sustainability Week 2009, and had the opportunity to meet with students and participate in the Sustainability Week 2009 Kickoff Ceremony. Dr. Mary Ann Lewis, Director, First Year Experience, recently announced that Barbara Kingsolver's *Animal, Vegetable, Miracle* has been selected as the University Common Book for academic year 2010-2011²⁶ and that Kingsolver is scheduled to speak on campus this fall.

Engaging Faculty and Staff

Green Campus Challenge

The Virginia Tech Green Campus Challenge²⁷ (GCC) was an online survey launched in March 2010 by the Energy and Sustainability Committee as an education, assessment, and encouragement campaign to campus departments with ten employees or more. The survey was modeled after the Green Commonwealth Challenge issued to all Virginia state agencies and institutions in 2009. **Fifty departments participated in the challenge representing 4,747 employees, or two-thirds of the Blacksburg campus work force.** Special congratulations go to Facilities Services, Materials Science and Engineering, Military Affairs/Corps of Cadets, and University Scholarships and Financial Aid for being the four departments achieving the highest point totals. As a show of his support for the GCC, President Steger will be inviting a representative from each of those departments to join him in the President's Suite for a home football game this fall. Full survey results can be viewed online.²⁸ As a result of the Green Campus Challenge, most departments now have green policies:

- **74%** to shut down computers at night, **88%** to turn off lights at COB; **94%** to encourage recycling
- **86%** to print/copy on both sides of 30% recycled paper; **90%** to use electronic media rather than print
- **76%** encourage carpooling to meetings, all use teleconferencing (saving 21,000 VMT/mo), **34%** have flex-work policy, **60%** have telecommuting policy (saving combined 2,050 commuter days/mo)
- **80%** identified a Green Campus Representative to keep the green campus dialogue alive

Green Jobs Training Programs

In January 2010 a **\$3.8 million** project for Green Jobs training was funded by the Department of Labor as part of the American Recovery and Reinvestment Act (ARRA). Virginia Tech is one of 7 regional partners pioneering this effort to revive Virginia's economy and train and employ citizens throughout the Commonwealth in green jobs. The **CREATES** (Construction, Retrofitting, and Energy-Efficiency Assessment, Training and Employment Systems) Program provides free training through an "Energy Training Partnership" grant, in green construction, retrofit and energy efficiency industries to unemployed, dislocated and incumbent workers.

Engaging Community

Community Service

"Ut Prosim, *That I May Serve*" has been the university's motto and mission of service since 1896, and community service continues to be vitally important to the Virginia Tech community. The mission of VT-ENGAGE,²⁹ the central community service entity for the university, is to "encourage everyone everywhere to do volunteer work as a way to give back to the community." Virginia Tech students, faculty, and staff are encouraged to perform as much community service per year as possible, both on campus and their respective communities. Additionally, VT-ENGAGE and Virginia Tech have proudly partnered with the Montgomery, Radford, and Floyd United Way to serve the volunteer needs of local communities. **In the 2009-2010 academic year, 350,000 hours of community service were pledged³⁰.**

²⁵ <http://www.commonbook.vt.edu/>

²⁶ <http://www.vtnews.vt.edu/articles/2010/06/2010-535.html>

²⁷ <http://www.vtnews.vt.edu/articles/2010/06/2010-470.html>

²⁸ http://www.facilities.vt.edu/sustainability/vt_green_campus.pdf, http://www.facilities.vt.edu/sustainability/gcc_results.pdf

²⁹ <http://www.engage.vt.edu/>

³⁰ <http://www.vtmagazine.vt.edu/spring09/feature1.html>

One Big Day. One Big Thanks

Every spring thousands of students, faculty and staff come together on a Saturday to complete hundreds of community service projects throughout Blacksburg, Christiansburg and the New River Valley. With 5,700 participants in 2009 and more than 7,000 participants and over 900 jobs in 2010, the **Big Event**³¹ is Virginia Tech's largest service event. Started in 2002, it is a student-run community service effort through the Student Government Association that has grown into one of the largest events of its kind in the nation.

Sustainability Week

Virginia Tech and the Town of Blacksburg continue to work together on many sustainability endeavors. A "green partnership" was formed between these two parties and a local citizens group, Sustainable Blacksburg,³² to begin sponsoring a week of events focused on sustainability. **Sustainability Week**³³ began in October 2007 and has become a highly successful, annual event. Throughout the week, Virginia Tech is able to work with local community groups such as the Blacksburg Farmers Market and local schools through events that entertain, educate, and highlight sustainability programs and practices. Sustainability Week ends with the annual Community Sustainability Fair featuring local vendors, children's activities, demonstrations, and much more.



Virginia Tech President Dr. Charles Steger delivering a message at the Sustainability Week 2009 Kickoff Ceremony held at The Inn at Virginia Tech and Skelton Conference Center's

Catawba Sustainability Center

The Catawba Sustainability Center continues to be a community partnership initiative of the Office of Outreach and International Affairs at Virginia Tech Roanoke. The center, a 377-acre farm in Roanoke County and former dairy for the adjacent Catawba Hospital is a living classroom and facility to support development of more sustainable rural communities and "green" job opportunities and provides education and outreach opportunities, a landcare enterprise incubator that includes training, and community engagement activities.³⁴ Virginia Tech faculty and students, representatives of the Virginia Department of Conservation & Recreation, and community members are working together to develop a 50-year conceptual plan for the site³⁵. Initial activities included an informal dinner in April, and a follow-up stakeholder planning workshop for the site held in May.

Engaging Peers

The Association for the Advancement of Sustainability in Higher Education (AASHE)

In 2008, Virginia Tech became a member of AASHE³⁶ and has renewed its membership every year since. AASHE's mission is to empower higher education to lead in sustainability transformation by providing resources, professional development, and a network of support to enable institutions of higher education to model and advance sustainability in everything they do, from governance and operations to education and research. AASHE is a member-driven, independent 501(c)(3). As part of its active engagement in AASHE, Virginia Tech became a Charter Participant in the AASHE STARS (Sustainability Tracking, Assessment, and Rating System) Program and has sent a representative to its conferences each year. AASHE membership benefits are listed under the Office of Sustainability website.³⁷

Inter-Campus Collaboration on Sustainability

The Office of Sustainability partners with other campuses on sustainability issues in several ways. *First*, office members participate in the "**Green schools listserv**"³⁸, a discussion list focused on sustainable campus operations and devoted to the exchange of ideas, support, and technical information. *Second*, Virginia Tech is a part of the **Virginia Sustainability in Higher Education Consortium**³⁹ where office members can interact with, and learn from other sustainability offices across the Commonwealth. By creating a network of Virginia-specific higher education sustainability professionals, colleges and universities in Virginia can leverage the experiences of others, share resources, build networks of subject matter experts from both within and outside their respective institutions, and form partnerships in research and education. Other Consortium members include George Mason University, James Madison University, Radford University, Virginia Commonwealth University, and the University of Virginia. *Third*, webinars and conference calls are scheduled regularly to discuss different challenges of sustainability in higher education.

³¹ <http://www.vtbigevent.org/index.php>

³² <http://www.sustainableblacksburg.org/>

³³ <http://www.recycle.vt.edu/sustain/>

³⁴ <http://www.landcarecentral.org/References/EngagementMatters-CSC-LandcareIncubator.pdf>

³⁵ [http://www.vtrc.vt.edu/May2010Newslette\(Rev\).pdf](http://www.vtrc.vt.edu/May2010Newslette(Rev).pdf)

³⁶ <http://www.aashe.org/about>

³⁷ <http://www.facilities.vt.edu/sustainability/aashe.asp>

³⁸ <http://www.aashe.org/lists/lists.php>

³⁹ http://groups.google.com/group/VASHE_Consortium?hl=en

Engagement Communication

Media-Based Communication

In addition to the Office of Sustainability website, sustainability-related news and information is communicated to student, staff and faculty, and the community through numerous electronic and printed venues. Both the **Collegiate Times**, the officially-recognized, student-run newspaper serving Virginia Tech since 1903 and **The Roanoke Times** with its local *New River Valley Current* section have featured sustainability-related articles in both their printed newspaper and online editions. Recent articles highlighted Virginia Tech's improving its Sustainability Endowments Institute 2010 report card grade from a "B-" to a "B",⁴⁰ Virginia Tech's vanpool and Alternative Transportation programs⁴¹ and Virginia Tech finishing third in former Governor Tim Kaine's "Green Commonwealth Challenge."⁴²

A section of the **Virginia Tech Magazine Fall 2009 Edition** was dedicated to highlighting the Hokies's efforts to green campus⁴³ and highlighted the Board of Visitor's approval of the VTCAC Resolution. Additionally, one page of the home football game program was dedicated to letting Hokie football fans know that recycling at games is important and alerted them to the "Green Effect" football game.



Cover photo of Hahn Horticulture Garden by Kim Peterson



2009 Home Football Program Ad

Virginia Tech sustainability activities and accomplishments were also featured in the following:

- ✦ Virginia Tech Annual Report 2008-2009 containing the article "Green Gaining Ground at University"
- ✦ President Steger featured sustainability in his "Virginia Tech in Review January 2010" highlight video.
- ✦ Sustainability-related articles in Virginia Tech News Daily E-mail sent to faculty and staff employees daily
- ✦ *Metro Magazine* featured Virginia Tech's Alternative Transportation program⁴⁴
- ✦ A recent Arbor Day Foundation article recognized Virginia Tech as one of twenty-nine colleges and universities to receive re-accreditation in 2009 for "Tree Campus USA" status⁴⁵

Point 11 – Transportation: "Virginia Tech will improve transportation energy efficiency on campus through parking, fleet, and alternative transportation policies. Alternative transportation use will increase from the current level of 45%, to a goal of 52% in 2015, and 60% in 2020."

Nationally-Recognized Leader

Virginia Tech has again been designated one of the **Best Workplaces for Commuters**⁴⁶ and continues to be nationally recognized for its outstanding Alternative Transportation Programs. Virginia Tech was one of three higher education institutions in the nation to receive a gold award for its Alternative Transportation programs in the **Best Workplaces for Commuters Race to Excellence** in December 2009.⁴⁷ For the **Green Commonwealth Challenge**, Virginia Tech was recognized for its many employees using alternative commuting to get to campus. It is estimated that the University's **Carpool and Bike, Bus, and Walk (BB&W)** programs are reducing GHG emissions by approximately 2,531



⁴⁰ <http://www.collegiatetimes.com/stories/14702/university-improves-sustainability-grade>

⁴¹ <http://www.roanoke.com/news/nrv/wb/254007>

⁴² <http://www.roanoke.com/news/nrv/wb/231401>

⁴³ <http://www.vtmagazine.vt.edu/fall09/index.html>

⁴⁴ <http://www.metro-magazine.com/News/Story/2009/11/Virginia-Tech-honored-for-sustainability-practices.aspx>

⁴⁵ <http://www.arborday.org/media/pressreleases/pressrelease.cfm?id=205>

⁴⁶ <http://www.bestworkplaces.org/>

⁴⁷ <http://www.vtnews.vt.edu/articles/2010/01/2010-18.html>

metric tons per year and saving its employees approximately \$839,777 per year in gasoline costs.

Virginia Tech Parking and Fleet Services

In response to the VTCAC&SP, Virginia Tech Parking Services has reduced their fleet of fossil fuel-powered pickup trucks by four. They currently have one T-3 electric personal transport which costs between 4 and 5 cents per day to operate and plan to purchase 2 Kubota utility vehicles this summer.

Fleet Services, as the result of their "Green Fleet" initiative,⁴⁸ has replaced 9 of its 11 Ford Crown Victorias with 32 MPG-rated Chevrolet Cobalts, with the goal to eventually replace all eleven. Additionally, five Honda Insights, hybrid vehicles with an estimated 40-43 MPG, have been added to the fleet. Beginning this year, a 10% biodiesel mix will be used from April through September and a 5% biodiesel mix will be used from October through March. To date, over 15,655 gallons of biodiesel have been used in campus fleet vehicles.

Alternative Transportation Program

At the end of FY2010, campus alternative transportation use was at **48%**, relative to the 2009 baseline level of 45% and 2015 goal of 52% and 2020 goal of 60%. Virginia Tech gauges the level of participation as a ratio of number of permits sold to number of resident students, commuter/graduate students, and employees. Breaking down the total by category, resident students were at a 63% usage rate, commuter/graduate students at a 48% usage rate, and employees at a 30% usage rate.

Local and Regional Public Transit

Locally, the Virginia Tech community utilizes the **Blacksburg Transit** (BT) bus system, which averages 2.95 million passengers per year. Blacksburg Transit received federal and state funding in fiscal year 2010 to purchase seven 40-foot and two 60-foot hybrid diesel-electric buses which will be in operation starting fall 2010.⁴⁹ BT has also invested in Intelligent Transportation System technologies, which allow collected information to be shared with customers to improve their overall experience while riding BT.

To commute to and from Roanoke, community members have access to the **Smart Way bus**⁵⁰, which offers free Wi-Fi to enable passengers to work while commuting in a more sustainable manner. Smart Way buses transport more than 64,000 passengers each year. Virginia Tech faculty, staff, and students also have access to discounted monthly passes.⁵¹ During academic year 2009-2010, Smart Way Bus introduced a larger, 57-seat motor coach manufactured by Motor Coach Industries (MCI) to replace their current fleet of 32-seat buses.⁵²

Commuter Alternatives Program (CAP)

The Commuter Alternatives Program (CAP)⁵³ oversees university permit-based Carpool Programs and the Bike, Bus & Walk (BB&W) program. Carpool programs exist for both students and Faculty/Staff.⁵⁴ Virginia Tech is a Workplace member of RIDE Solutions⁵⁵, a regional ridesharing program, which makes these programs possible. Beginning in the fall 2010 session, a new \$15 registration fee will help offset rising administrative and maintenance costs and will also be used to improve campus infrastructure such as bike racks and crosswalk enhancements.

Vanpool Program

A vanpool program⁵⁶ is also available for full-time, permanent employees for commuting purposes. There are three operational vanpools commuting from Pulaski County, Roanoke, and West Virginia. In addition, a VT Rideboard will be available this fall to help Virginia Tech students find rides for trips, breaks, and anywhere else. The Home Ride⁵⁷ of Virginia program is still available.

⁴⁸ <http://www.facilities.vt.edu/tcs/fleet/greenfleet.asp>

⁴⁹ <http://www.collegiatetimes.com/stories/15611/hybrid-buses-look-to-save-bt-money>

⁵⁰ <http://www.smartwaybus.com/>

⁵¹ <http://www.facilities.vt.edu/tcs/passes.asp>

⁵² <http://www.vtnews.vt.edu/articles/2009/12/2009-946.html>

⁵³ <http://www.facilities.vt.edu/tcs/alternative/cap.asp>

⁵⁴ <http://www.facilities.vt.edu/tcs/alternative/cap.asp#carpool>

⁵⁵ <http://www.ridesolutions.org/index.asp>

⁵⁶ <http://www.facilities.vt.edu/tcs/alternative/van.asp>

⁵⁷ <http://www.homeride.com/>

U Car Share

U Car Share⁵⁸, a subsidiary of the U-Haul company program on campus provides a sustainable alternative to car ownership. U Car Share provides 24 hours a day, 7 days a week availability of a car to students, staff and faculty. Members pay only for what they use in one low hourly rate with U Car Share covering all fuel, insurance, and maintenance costs. Virginia Tech's Transportation and Campus Services and U Car Share recently announced a new departmental billing option that will allow university departmental employees to rent vehicles for official university business and have the cost billed back to their departments via Hokie Mart.⁵⁹ U Car Share has provided six EPA SmartWay certified vehicles including two hybrids.

Bicycles

Virginia Tech Policy 5005 "Bicycle and Personal Transportation Devices"⁶⁰ was passed in June 2009 and establishes responsibilities and procedures to ensure pedestrian safety, proper vehicular operation, and enforcement of bicycles, skateboards, in-line skates, roller skates, mopeds, motor scooters and electronic personal assistance mobility devices on campus, as well as parking regulations.

Transportation and Campus Services at Virginia Tech has been awarded funding through TEA-21 Enhancement grants for a bicycle pathways project called the "Hokie Bikeways."⁶¹

Telecommuting and Flexible Work Options

Flexible Work Options (FWO)⁶² provide alternatives to the traditional "8-to-5" workday, the standard workweek, or the traditional workplace. FWO can help employees balance work and personal responsibilities, while meeting business needs and objectives. Since telecommuting or flexing one day per week can decrease emissions by up to 20% per employee participating in the program, this can have a substantial positive impact on commuting emissions as well. Applicable University policies are Policy 4325, Alternate Worksite and Telework, updated December 2008 and Policy 4300, Hours of Work, Section 2.4, updated October 2008. Accompanying guidelines and agreement forms have been developed and are now available on the Work Resources website⁶³ for more convenient online submission.

Currently, there are 26 teleworkers and 21 employees working alternative schedules, with nine utilizing both options at the same time. Participation is expected to increase as publicity and outreach to employees increase.

Point 12 - Academic Programs: *"The university will create and support a virtual Virginia Tech School of Sustainability or similar mechanism to coordinate, develop, and communicate related instructional, research, and outreach academic programs."*

Curriculum

Special Advisor on Academic Sustainability Programs

In May 2009, in response to the VTCAC&SP plan recommendation to establish a Senior Fellow for Sustainability Programs or comparable position to develop and coordinate academic instruction, research, and outreach sustainability programs, Provost Mark McNamee appointed Professor John Randolph (Urban Affairs and Planning, School of Public and International Affairs, College of Architecture and Urban Studies) as his **Special Advisor on Academic Sustainability Programs**. Dr. Randolph has since established an ad hoc committee from across the eight academic colleges to develop sustainability-focused curricula, and has formed five work groups related to VTCAC&SP plan implementation: (1) New sustainability-related degree in CNR; (2) College survey of sustainability-related academic programs; (3) Cross-college and interdisciplinary sustainability programs; (4) sustainability literacy; and (5) Website for the Virtual School of Sustainability.

College of Natural Resources and Environment

Virginia Tech's Board of Visitors approved at its June 2010 meeting re-naming the College of Natural Resources as the College of Natural Resources **and Environment** to more accurately reflect Virginia Tech's broad-based programs and increasing emphasis on sustainability initiatives⁶⁴. The College's programs are ranked among the top three in North America by its peer institutions. The

⁵⁸ <https://www.ucarshare.com/secure/Home.aspx>

⁵⁹ http://www.vtnews.vt.edu/campus_notices/campusnotice.php?item=3052

⁶⁰ <http://www.policies.vt.edu/5005.pdf>

⁶¹ <http://www.facilities.vt.edu/tcs/alternative/>

⁶² http://www.worklife.vt.edu/alt_work_opt/index.html

⁶³ http://www.worklife.vt.edu/alt_work_opt/index.html

⁶⁴ <http://www.vtnews.vt.edu/articles/2010/06/2010-489.html>

College also recently announced an expansion of its graduate-level programs in the National Capital Region to focus on leadership for sustainability, including a new first of its kind **Executive Master of Natural Resources degree**⁶⁵.

Earth Sustainability Program

Virginia Tech's Earth Sustainability (ES) course series was recently named as one of two 2009 University Exemplary Department Award winners.⁶⁶ Presented annually since 1994, the University Exemplary Department Award recognizes the work of departments or programs that enhance the teaching and learning environment for students and faculty. This year, the awards were presented to departments and programs that effectively linked research and scholarship with teaching, with particular emphasis on innovative undergraduate programs. The series is part of the newly emerging "Living in the 21st Century" program, designed to integrate the goals of the university's Curriculum for Liberal Education in an interdisciplinary theme-based learning experience. Students work together as a group and in learning communities of 25-30 students, each facilitated by a faculty member.

Green Engineering Minor

Green Engineering, first offered in Spring 2009, focuses on design of materials, processes, systems, and devices while minimizing overall environmental impact, including energy utilization and waste production, throughout the entire life cycle of a product or process, from initial extraction of raw materials used in manufacture to ultimate disposal of materials that cannot be reused or recycled at the end of the useful life of a product. Approximately 200 students are pursuing the minor currently, and an estimated 50 students received the minor in Spring 2010.

Research

Director of Energy Initiatives

Following a 2009 mid-term review of the current 2006-2012 University Strategic Plan, the Provost's Response and Action Plan⁶⁷ recognized an area of special need involving the overall energy agenda for the university; "the increased emphasis by federal, state and special agencies (such as the Tobacco Commission) on large-scale energy initiatives requires us to be as strategic and pro-active as possible in promoting a clear, effective energy research strategy. The creation of a high-level position to lead the overall effort, in partnership with the institutes and the colleges, is a top priority."

As a result, the position of **Director of Energy Initiatives** was created with specific job responsibilities to serve as a central resource for energy-related initiatives within the university, promote areas of energy-related research expertise to outside constituencies, be aware of research opportunities focusing on energy and related fields and develop mechanisms to bring these opportunities to the Virginia Tech research faculty, and work with ICTAS and other stakeholders and researchers in the university to promote and coordinate multidisciplinary and interdisciplinary energy-related research efforts and policy initiatives. While this position will report directly to the Director of the Institute for Critical Technology and Applied Science, the incumbent will assume a strong liaison role with the Vice President for Research.

Virginia Tech Wins 2010 European Solar Decathlon Competition

In June, 2010 Lumenhaus, Virginia Tech's entry into the 2009 Solar Decathlon and 2010 Solar Decathlon Europe competitions, **placed first in the European Solar Decathlon** in Madrid, Spain.⁶⁸ Lumenhaus bested entries from 16 university teams from seven countries on three continents. A team of faculty, undergraduate, and graduate students from four Virginia Tech colleges — the College of Architecture and Urban Studies, the College of Engineering, the Pamplin College of Business, and the College of Liberal Arts and Human Sciences, designed and built the 100% solar house. The zero-energy home, inspired by architect Mies Van Der Rohe's Farnsworth House, has north and south walls that are all glass to maximize exposure to natural daylight and incorporates movable screens, recyclable materials and extremely efficient lighting.



The Virginia Tech Lumenhaus at the 2010 Solar Decathlon Europe

⁶⁵ <http://www.vtnews.vt.edu/articles/2010/06/2010-457.html>

⁶⁶ <http://www.vtnews.vt.edu/articles/2009/12/2009-910.html>

⁶⁷ http://www.provost.vt.edu/documents/provost_response_1_08_10.pdf

⁶⁸ <http://www.vtnews.vt.edu/articles/2010/06/062910-caus-lumenhauswins.html>

Prior to the European competition, Lumenhaus was exhibited in Times Square in New York City in January and was featured on ABC's Good Morning America.

Green500 Supercomputer List

Since its 2007 debut, the Green500 Supercomputer List, founded by Virginia Tech's Associate Professor Wu Feng of the Departments of Computer Science and Electrical & Computer Engineering, College of Engineering⁶⁹ has ranked the energy efficiency of the world's 500 fastest performing supercomputers. The most recent sixth edition of the Green500 List shows continuing improvement in energy efficiency among the world's fastest supercomputers.

EcoCAR Challenge

The Hybrid Electric Vehicle Team of Virginia Tech⁷⁰ (HEVT) continues to provide students with the opportunity to research, develop, and build usable hybrid, plug-in hybrid, full-electric and alternative fuel vehicles. HEVT is currently participating in the 2008 – 2011 international "EcoCAR: The NeXt Challenge Advanced Vehicle Technology Competition Series" sponsored by General Motors and the U.S. Department of Energy, to redesign the power train of a stock, conventional vehicle in order to reduce petroleum energy use and greenhouse gas emissions, while still maintaining safety and consumer acceptability. HEVT recently took second place in the international EcoCAR Challenge, a three-year design competition that seeks to inspire science and engineering students to build more energy-efficient "green" automobiles. HEVT's EcoCar can be seen in action on a youtube.com MotorWeek video.⁷¹

Smart Grid Information Clearinghouse

In 2009, Virginia Tech was awarded a \$1.25 million five-year contract by the U.S. Department of Energy (DOE) to develop, manage, and maintain a public Smart Grid Information Clearinghouse (SGIC) Web portal that encourages use of electricity in an environmentally responsible way.⁷² The SGIC portal will be designed to serve as a repository for public smart grid information and to direct its users to other pertinent sources or databases for additional data, case studies, etc. It will facilitate direct sharing and dissemination of smart grid information among various stakeholders on knowledge gained, lessons learned, and best practices.

Virginia Tech announced recently it has posted a beta version of the Smart Grid Information Clearinghouse (SGIC) Web portal to invite comments and suggestions on usability from both consumers and the smart grid community⁷³, with the full version of the site expected to be released this fall.



Blacksburg Wind and Solar Project



Blacksburg Wind & Solar Power⁷⁴ received a \$15,000 Community Action Grant from Virginia Tech's Office of the Vice President for Research on April 1, 2009 and installed a 640 watt residential/small-business scale wind turbine and 1,050 watt solar array at the YMCA Center at 1000 North Main Street, less than 0.5 miles from the Virginia Tech campus, to investigate the feasibility of wind energy in an urban environment and to serve as an educational tool about alternative energy sources.⁷⁵



⁶⁹ <http://www.vtnews.vt.edu/articles/2009/11/2009-797.html>

⁷⁰ <http://www.me.vt.edu/hevt/>

⁷¹ <http://www.youtube.com/user/Motorweek#p/search/0/9Pa6ckOw4fc>

⁷² <http://www.vtnews.vt.edu/articles/2009/10/2009-801.html>

⁷³ <http://www.vtnews.vt.edu/articles/2010/07/070710-ncr-smartgrid.html>

⁷⁴ <http://www.blacksburgwindpower.com/index.php>

⁷⁵ <http://www.roanoke.com/news/nrv/wb/243943>

Student Research Projects

Many student research projects address sustainability directly. Some examples of these are described below.

Graduate students in Economic Development helped green businesses emerge in nearby Floyd County. The class of eight students conducted a market analysis of Floyd County's assets and then worked to determine what business opportunities might be the best fit. Considering startup costs, needed labor skills, employment possibilities, and community input, the class recommended the following four green businesses: (1) a wood pellet manufacturing facility; (2) a micro dairy; (3) a flooring and countertops manufacturing facility; and (4) a "sustainable living" training-and-education center.

To renew interest in the possibilities of passenger rail travel, four senior industrial design lab teams developed high-speed train concepts. The designs were required to comply with the Americans with Disabilities Act, use a locomotive design based on an operational engine, accommodate 250 to 350 passengers, and be used as a signature vehicle for the proposed Southeast High Speed Rail Corridor from Richmond, Virginia to Charlotte, North Carolina, and Atlanta, Georgia. The students were invited to present their high-speed passenger train designs to the American Public Transportation Association's annual meeting in Chicago in June 2009.



One of the passenger rail concept designs developed by students

A team of undergraduate students from Virginia Tech's Department of Biological Systems Engineering in the College of Agriculture and Life Sciences and the College of Engineering was one of 14 teams to win an Environmental Protection Agency (EPA) P3 Award at the 6th Annual National Sustainable Design Expo⁷⁶. Virginia Tech's award-winning design developed a combined riparian zone with a stream denitrifying biofilm, for nitrate reduction in aquatic ecosystems. The team was awarded \$75,000, which will be used to further refine the design and to implement a pilot-scale model at Stroubles Creek in Blacksburg.

Point 13 – Annual Report Card: *"The university will monitor energy use and GHG emissions as well as changing internal and external conditions, prepare an annual 'report card' showing progress towards targets, and periodically re-evaluate targets, making adjustments to targets as appropriate based on changing internal and external conditions and evolving technologies."*

Internal Assessment and Accountability

This report, "2010 Annual Report on Campus Sustainability at Virginia Tech", authored by the Office of Sustainability is the first of future reports to provide a comprehensive status of implementation of the VTCAC&SP and to highlight the accomplishments and breadth of sustainability programs at Virginia Tech. The creation of this report also is intended to meet the requirement of an "annual 'report card'" in Point 13 above.

In addition, the Office of Sustainability has created a spreadsheet report to track the implementation of the proposed actions and measures listed in the VTCAC&SP for the Immediate Phase (2009-2012).⁷⁷ The spreadsheet is organized into the following six categories in order: Administrative Structure and Governance, Facilities Infrastructure, Facilities Operations, Transportation, Behavior and Campus Life, and Academic Programs. Following each action/measure is a brief description, the current status and contact information. The report will be updated on a quarterly basis and will be utilized in the VTCAC Annual Report.

College Sustainability Report Card

The Sustainable Endowments Institute (SEI) released its Campus Sustainability Report Card 2010 on October 7, 2009, and Virginia Tech received an overall grade of "B",⁷⁸ the second consecutive year the university's overall grade has improved. The university received an "A" in the Administration, Student Involvement, Transportation, and Investment Priorities categories, and received a "B" in the Climate Change & Energy Category, Food and Recycling, and Green Building categories. Furthermore, SEI recognized Virginia Tech as a "Campus Sustainability Leader" for receiving an average grade of "A-" or better in the six campus operations categories (Administration, Climate Change & Energy, Food & Recycling, Green Building, Student Involvement, and Transportation). Only eighty of the 332 surveyed institutions earned this distinction.⁷⁹ Virginia Tech's one-page summary report card may be viewed online.⁸⁰

⁷⁶ http://www.epa.gov/p3/project_websites/2010/2010awardwinners.html

⁷⁷ <http://www.facilities.vt.edu/sustainability/vtcac.pdf>

⁷⁸ <http://www.facilities.vt.edu/sustainability/>

⁷⁹ <http://www.greenreportcard.org/report-card-2010/awards/campus-sustainability-leaders>

⁸⁰ <http://www.greenreportcard.org/report-card-2010/schools/virginia-polytechnic-institute-and-state-univ>

Green Commonwealth Challenge

Virginia Tech placed **third** among top-scoring state agencies in former Gov. Tim Kaine's "Green Commonwealth Challenge" and was the only college and university represented in the top five.⁸¹ The challenge was part of Kaine's "Renew Virginia" energy conservation and sustainability initiative stemming from Executive Order 82 and called on state agencies to increase recycling and energy conservation and decrease carbon emissions from driving. Employees from the top three agencies were awarded a day off.

Shooting for the STARS.

The AASHE Sustainability Tracking Assessment and Rating System (STARS) is a transparent, self-reporting framework for colleges and universities to gauge relative progress toward sustainability.⁸² Institutions earn points in three main categories: Education & Research; Operations; and Planning, Administration & Engagement. Each of these categories includes subcategories such as Purchasing, Curriculum, Energy, and Human Resources. Virginia Tech earned recognition from AASHE for their leadership in sustainability by registering as a STARS charter participant this spring and will be submitting for a rating this winter.



Point 14 – Funding: *“With regard to all the items in this resolution, major personnel and investment decisions, including capital projects, associated with implementing the VTCAC&SP will be based on a joint review of costs and benefits by university financial and facilities staff and be subject to availability of funds. Virginia Tech will provide funding to support sustainability programs through a variety of sources, which might include savings from reduced electricity and energy fuels, E&G funds, loans, a Green Development Fund from private sources, and a student Green Fee.”*

Green Development Fund

The VTCAC&SP recommended the establishment of a Green Development Fund for campus sustainability and other endowment funds for academic sustainability programs. The idea is to provide donors with an opportunity to support sustainability programs and investment in campus sustainability. The Office of Sustainability has had preliminary discussions with University Development representatives and the initiative appears promising. The Office of Sustainability will prepare and advance a draft proposal to be forwarded through the Associate Vice President for Facilities Services and the Vice President for Administrative Services for consideration.

Pilot Program for the Green RFP

The Office of Budget and Financial Planning, in partnership with the Office of Sustainability, has created a pilot program to solicit and respond to proposals from recognized student organizations that will help to advance the VTCAC&SP. The purpose of this pilot program is to determine if this can be an effective strategy to understand and respond to student priorities in the area of sustainability. The intent of this process is to direct a variety of existing university financial resources to sustainability initiatives each year in order to accomplish the intended impact of a so called “Student Green Fee” but without requiring an additional increase in the fees charged to students. This approach acknowledges the complexity of the institutions regulated funding structure, the cross-cutting nature of sustainability, and the institutional wide interest in sustainability.

⁸¹ <http://www.vtnews.vt.edu/articles/2010/01/2010-14.html>

⁸² <http://stars.aashe.org/>

Conclusion and Future Steps

In conclusion, the Office of Sustainability would like to acknowledge the time and efforts expended by many over the past year. Implementation of the VTCAC&SP is a team effort, and the Office wishes to thank those individuals who contributed to initial implementation steps as well as the preparation of this document. The past year indeed has seen much accomplished in all facets of initial sustainability implementation at Virginia Tech. However, much work lies ahead.

Specific focus areas of implementation of the VTCAC&SP for the coming year and listed by Virginia Tech Climate Action Commitment Resolution key point:

Point 1 – Leadership

- ✦ Strive to improve Virginia Tech's overall rating on the Sustainable Endowments Institute's College Sustainability Report Card 2011. The Campus Survey, the Dining Survey, the Endowment Survey, and eight Student Surveys were completed and submitted to SEI by July 21, 2010. Results are expected to be released in September 2010.
- ✦ The Energy and Sustainability Committee will seek to obtain approval of Revision 2 to University Policy 5505 "Campus Energy, Water, and Waste Reduction" that incorporates the requirements contained in Virginia Governor Robert McDonnell's Executive Order 19 (2010).
- ✦ The Office of Sustainability, in coordination with appropriate university activities, will coordinate the preparation and submission of our AASHE "STARS" program documentation.
- ✦ Continue to promote Virginia Tech's sustainability achievements in local, state, and national publications.

Point 2 - Strategic Plan

- ✦ The Office of the Vice President for Research will select the new Director of Energy Initiatives.

Point 3 - GHG Emissions Inventory

- ✦ Conduct a comprehensive GHG emissions inventory at the conclusion of calendar year 2010.

Point 4 - GHG Emissions Reduction

- ✦ While maximization of coal-fired steam capability will continue to be required in the interim for budgetary reasons, continue to offset and reduce overall GHG emissions through increased coal-boiler efficiency and steam demand reductions.
- ✦ Continue reducing purchased electricity (the highest per-Btu GHG-emitting energy source) through aggressive space temperature setbacks, continued expansion of AHU shutdown program, and maximization of onsite electrical self-generation.
- ✦ Continue implementation of the 2009 Chilled Water Master Plan Study and associated action items by providing district chilled water to the new Academic and Student Affairs and Performing Arts Center buildings if feasible and by completing the design of new Southwest Chiller Plant.
- ✦ Continue to develop a working partnership with Virginia Tech College of Engineering's Department of Mining & Minerals Engineering faculty to explore environmentally-friendlier fuel alternatives for Virginia Tech boilers such as dewatered coal fines from abandoned waste coal slurry ponds and biomass, as well as more sustainable solutions for boiler ash disposal.
- ✦ Actively participate in PJM's Economic Demand Response programs; develop demand response strategies involving occupancy-based HVAC equipment shutdowns, chilled water temperature reset, and lighting and plug load reductions.

Point 5 - Office of Sustainability

- ✦ Continue to implement all tasks in Point #5 of the VTCAC Resolution.
- ✦ Expand the VTCAC&SP "Status Report" spreadsheet to include actions and measures listed for the "midterm phase (2013-2025)."
- ✦ Enhance the Office of Sustainability Website.
- ✦ Coordinate and submit the AASHE "STARS" program documentation.
- ✦ Coordinate the implementation of the "Student Organization Sustainability Initiative (Green Request for Proposal) Pilot Program with the Office of Budget and Financial Planning.
- ✦ Complete the Virginia Tech Comprehensive Waste Management Plan.
- ✦ Expand Student Intern sustainability opportunities.

Point 6 - LEED Certification

- ✦ The university has 11 capital projects registered with the U.S Green Building Council (USGBC) with six under construction and five in the design phase. The Football Locker Room Addition and ICTAS-II are scheduled for completion this fall and provide excellent opportunities for ceremonies and celebration.

Point 7 - Energy Efficiency

- ✦ Continue to implement energy-efficient lighting fixture, lamp, and control technologies in buildings as funds become available.
- ✦ Continue to pursue advancement of the ESCO Project process; seek to obtain funding for Phase I Project ECM's and begin scope development for a Phase II project.

Point 8 - Waste Minimization

- ✦ Complete the Comprehensive Waste Management Plan.
- ✦ Increase our overall Recycling Rate for Calendar Year 2010.
- ✦ Expand our overall composting program and introduce composting at additional on-campus dining facilities.
- ✦ Continue participation in Recyclemania 2011 with the goal to increase traditional recycling materials and composting figures, while simultaneously decreasing municipal solid waste.
- ✦ Adopt additional reduction measures in the Waste Management component of the nation Recyclemania nation competition.
- ✦ Continue to improve our Y-Toss? Program and increase volunteer participation.

Point 9 – Procurement

- ✦ Seek approval of Revision 2 to University Policy 5505 “Campus Energy, Water, and Waste Reduction” which includes provisions for purchasing Energy Star rated equipment, the use of recycled paper content, and other efficiency and conservation requirements.

Point 10 - Campus Engagement

- ✦ The Office of Sustainability will continue to support university student programs to include New Student Orientation, Gobblerfest 2010, student sustainability organizations and events, Sustainability Week 2010, Eco-Olympics, Recyclemania 2011, and Earth Week 2011.
- ✦ Seek to expand implementation of sustainability initiatives within the Virginia Tech Department of Athletics.
- ✦ Continue to promote and participate in sustainability communications using internal and external sources.

Point 11 – Transportation

- ✦ Virginia Tech's Fleet Services and Parking Services will continue to implement improvements with its vehicle fleet and personal transport.
- ✦ The University's award winning Alternative Transportation Program is nationally recognized and consistently strives to improve its excellence. The program will continue to increase the current alternative transportation usage toward the goal of 52% by 2015.

Point 12 - Academic Programs

- ✦ Continue to support the Special Advisor to the Provost on Academic Sustainability Programs in a variety of sustainability initiatives.
- ✦ Promote the use of university facilities as a learning laboratory for teaching and research.
- ✦ Explore collaborative sustainability opportunities with university teaching, research, and administrative faculty & staff, and students.
- ✦ Establish a Virtual School of Sustainability website as a portal to Virginia Tech academic programs related to sustainability, with links to college and department programs and content related to and profiles of campus sustainability programs.

Point 13 - Annual Report Card

- ✦ Enhance and expand the Annual Report Card format and content.
- ✦ Develop a single-page comprehensive scorecard containing metrics for key sustainability initiatives, threshold/target/stretch goals for each metric, and current progress against goals for each metric; update on a quarterly basis at minimum.

Point 14 – Funding

- ✦ Advance discussion on the establishment of a Green Development Fund.
- ✦ Implement the Student Organization Sustainability Initiatives (Green RFP) Pilot Program.

Capital Outlay Project Status Report
BUILDINGS AND GROUNDS COMMITTEE

August 30, 2010

PROJECTS BEING DESIGNED

1. Campus Heat Plant - \$28,750,000 (60% GF and 40% NGF)

This project provides planning authorization for the design of new heating and cooling infrastructure to serve the various areas of campus.

A/E: Affiliated Engineers, Inc. – Chapel Hill, NC

Status: Project split into various design and construction packages. Remaining bid packages include North Campus Distribution Piping and Coal Storage Enclosure.

2. Academic and Student Affairs Building - \$45,153,000 (100% NGF)

This 77,500 GSF project will include a new dining facility, academic instruction areas, and other student space in a four or five-story building.

A/E: Burt Hill Kosar Rittleman Associates – Washington, D.C.

Construction Manager: Skanska USA Building, Inc. – Durham, NC

Status: Final Construction Drawings are nearing completion. An initial GMP contract for site work, foundations and structural steel has been awarded and work on site has begun.

3. Center for the Arts - \$93,993,000 (30% GF and 70% NGF)

This project includes construction of a new 92,000 GSF Performance Hall with a 1,300-seat auditorium, as well as a Visual Arts Gallery. It also includes the renovation of Shultz Hall for Creative Technologies and support spaces.

A/E: Snohetta AS – New York, NY with STV Group, Inc. – Douglassville, PA

Construction Manager: Holder Construction Company – Charlotte, NC

Status: Final Construction Drawings are nearing completion. An initial GMP contract for soil modification has been awarded and work on site has begun.

4. Signature Engineering Building – \$6,433,580 (21% GF and 79% NGF)

This project provides a new 153,800 GSF state-of-the-art, technology enhanced flagship building for the College of Engineering.

A/E: Zimmer Gunsul Frasca Architects LLP – Washington, DC

Construction Manager: Gilbane Building Company – Durham, NC

Status: Only design funding has been allocated at this time and Construction Drawings are underway. Pending construction activities are predicated on the state's schedule for allocating construction funding.

5. Human and Agricultural Biosciences Building I - \$4,140,000 (50% GF and 50% NGF)

This project provides for a new 92,500 GSF advanced agricultural research laboratory facility.

A/E: Lord, Aeck & Sargent, Inc. – Atlanta, GA

Construction Manager: Skanska USA Building, Inc. – Durham, NC

Status: Only design funding has been allocated at this time and Construction Drawings are underway. Pending construction activities are predicated on the state's schedule for allocating construction funding.

6. Chiller Plant I - \$980,000 (50% GF and 50% NGF)

This project provides for additions and improvements to the campus chilled water infrastructure, including an 18,600 GSF chiller plant in the SW section of campus.

A/E: Burns and Roe Service Corporation – Virginia Beach, VA

Construction Manager: The Whiting-Turner Contracting Co. – Charlotte, NC

Status: Only design funding has been allocated at this time and Preliminary Design is underway. Pending construction activities are predicated on the state's schedule for allocating construction funding.

7. Agriculture Program Relocation, Phases I and II - \$1,000,000 (100% NGF)

This project provides for a feasibility study to relocate the current lactating, non-lactating, and bovine palpation herds to Kentland Farm.

A/E: Hanbury Evans Wright Vlattas + Company – Norfolk, VA

Contractor: TBD

Status: Pre-planning/programming is underway.

8. North Chiller Plant - \$3,800,000 (100% NGF)

This project is to construct a 17,500 GSF shell building to house the chilled water infrastructure needed for the Prices Fork Lot precinct development.

Criteria Consultant: Trefz Engineering - Horsham, PA
Design/Builder: TBD

Status: Criteria development is underway. A design and construction schedule will be developed once the scope of work is fully defined.

9. Vet Med Instructional Addition - \$1,400,000 (100% NGF)

This project provides for the planning of additional instructional space to provide adequate classrooms, to relieve overcrowding of the existing facility. The proposed project will address space accommodation needs with new classrooms and teaching labs, and faculty spaces.

A/E: HKS, Inc. – Richmond, VA
Construction Manager: TBD

Status: Schematic Design and CM procurement are underway. Construction is tentatively scheduled to begin in the Spring of 2012 with Substantial Completion occurring in the Summer of 2013.

10. Phase IV of Oak Lane Community - \$23,500,000 (100% NGF)

This project constructs five new houses and infrastructure improvements east of the Oak Lane adjacent to the golf course.

A/E (Infrastructure Evaluation): Thompson + Litton – Radford, VA
Contractor (Infrastructure Improvements): TBD
PPEA Team (Houses): TBD

Status: A consultant proposal to evaluate the existing infrastructure is being reviewed. Infrastructure improvements, which are dependent upon the number of houses being constructed in the initial phase, will be scheduled once the scope of the needed improvements is determined.

11. Technology Research and Innovation Center - \$11, 896,644 (100% GF)

The project constructs a 60,000 GSF facility in Hampton, VA for the National Institute of Aerospace. The facility includes designated labs, flex space labs, offices, and unfinished shell space with a building foot print of approximately 20,000 SF.

PPEA Team: Concord Eastridge – Arlington, VA

Construction Manager: Alpha Corporation – Hampton Roads, VA

Status: Design is underway. Construction is anticipated to start in November 2010 with Substantial Completion anticipated in December 2011.

CONSTRUCTION PROCUREMENT

1. Infectious Disease Research Facility (Vet Med Addition)

Branch & Associates, Inc. GMP	\$ 6,648,316
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2. Academic and Student Affairs Building

Skanska USA Building, Inc GMP #1 (Site/Foundation/Steel Package)	\$ 11,420,897
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3. Center for the Arts

Holder Construction Company GMP #1 (Soil Modification Package)	\$ 1,502,715
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PROJECTS UNDER CONSTRUCTION

1. Virginia Tech – Carilion Medical School and Research Institute - \$62,500,000 (94% GF and 6% NGF)

This project constructs a new medical school and research institute adjacent to the Carilion complex in Roanoke.

PPEA Team: Carilion Clinic, – Roanoke, VA
Hayes, Seay, Mattern & Mattern, Inc., - Roanoke, VA
Skanska USA Building, Inc. – Durham, NC

Status: Portions of the facility have been occupied. Substantial Completion for the remainder of the facility is scheduled for December 2010.

2. Parking Structure - \$26,000,000 (100% NGF)

This project will provide a 1400 space parking structure in the Perry Street lot.

Criteria Consultant: DESMAN Associates – Vienna, VA
Design/Builder: Rentenbach Constructors – Greensboro, NC

Status: The contractual Substantial Completion date was July 27, 2010. While portions of the parking structure are available for use, Substantial Completion of the entire facility is not anticipated until October 2010. Delay damages will be assessed as provided for in the contract documents.

3. ICTAS – II - \$35,000,000 (50% GF and 50% NGF)

This project provides a 42,190 GSF facility which includes state-of-the-art research facilities with highly specialized research laboratories, which will support multi-disciplinary research areas including bio-nanotechnology, bio-materials, communications technology, and sensor technology.

A/E: SmithGroup – Washington, D.C.
Construction Manager: Skanska USA Building, Inc – Durham, NC

Status: Construction is underway with Substantial Completion anticipated in December 2010.

4. Ambler Johnston Hall - Improve Residence and Dining Halls – \$72,113,670 (100% NGF)

This project will provide complete renovations to Ambler Johnston Hall (272,000 GSF) including replacement of building systems and addition of air conditioning. The project is envisioned to improve the sense of community by adding corridor

day-lighting and an attractive entrance area. The project will be completed in multiple phases.

A/E: Clark Nexsen – Charlotte, NC

Construction Manager: Barton Malow Company – Charlottesville, VA

Status: Construction of Phase I is underway and Substantial Completion is scheduled for July 2011. Phase II will begin construction in May 2011 with Substantial Completion scheduled for July 2012.

5. Football Locker Room Addition - \$16,118,658 (100% NGF)

This project constructs a 38,500 GSF locker room facility addition to house a new football locker room, a player's lounge, and an administrative area to serve the Athletics Department.

Criteria Consultant: Sportplan Studio – Kansas City, MO

Design Build Team: Barton Malow Company – Charlottesville, VA

Status: Construction is underway with Substantial Completion scheduled for August 2010.

6. McComas Hall - Additional Recreation, Counseling and Clinical Space - \$12,845,385 (100% NGF)

This project will expand McComas Hall by approximately 27,000 GSF to meet the growing demand for student recreation/exercise space for the university.

A/E: Hughes Group Architects – Sterling, VA

Construction Manager: The Whiting-Turner Contracting Co. – Charlotte, NC

Status: Construction is underway with Substantial Completion scheduled in September 2010.

7. Materials Management Facility - \$3,500,000 (100% GF)

This project will construct a 7,500 GSF facility to manage, store, and process hazardous waste for disposal.

A/E: Wiley & Wilson - Lynchburg, VA

Contractor: G&H Contracting, Inc. – Salem, VA

Status: Construction is underway with Substantial Completion scheduled for September 2010.

8. Visitors and Undergraduate Admissions Center - \$10,500,000 (100% NGF)

This project will construct an 18,155 GSF facility to accommodate the growing needs of visitors to the campus and university admissions office.

A/E: Glavè & Holmes Associates – Richmond, VA

Construction Manager: BE&K Building Group – Charlotte, NC

Status: Construction is underway with Substantial Completion scheduled for June 2011.

9. Infectious Disease Research Facility - \$9,300,000 (33% GF and 67% NGF)

This project will construct a 15,800 GSF facility to accommodate infectious disease research laboratory space (60%), lab office space and support areas (40%).

A/E: CUH2A Architecture, Engineering, Planning – Bethesda, MD

Construction Manager: Branch & Associates, Inc. – Roanoke, VA

Status: Construction is underway with Substantial Completion anticipated in October 2011.

PROJECTS ON HOLD

1. VBI Addition Facility - \$2,400,000 (100% NGF)

This project provides for the planning of a 51,500 building addition that will include office space for faculty, researchers, research associates, and support personnel and associated conference and meeting space for growing Virginia Bioinformatics Institute (VBI) departments.

A/E: Perkins + Will – Charlotte, NC

Construction Manager: Skanska USA Building Inc. – Durham, NC

Status: Working Drawings are complete. A fund source for construction has not yet been identified.

2. Geosciences Building & Discovery Center - Sciences Research Laboratory - I (93,300 GSF) – CM @ Risk

This project will include a combination of offices, class laboratories, research offices and laboratories, and graduate student space that will be used to house a number of departments and programs for the College of Science. A significant portion of the building is envisioned to house the Department of Geosciences. The other focus of the building program envisions an expansion of the nano-science research field.

A/E (Programming Only): CUH2A Architecture, Engineering, Planning – Bethesda, MD

A/E: Payette/E. Verner Johnson – Boston, MA

Status: A program and site confirmation study has been completed. The project has been placed on hold until further direction from College.

3. Renovate Davidson Hall - \$2,256,000 (67% GF and 33% NGF)

This project provides for the demolition of the deteriorated center and rear sections of Davidson Hall and builds back approximately 45,000 GSF.

A/E: Einhorn Yafee Prescott – Washington, DC

Construction Manager: Barton Malow Company – Charlottesville, VA

Status: Design work has been suspended at 90% Construction Drawings. Final design and pending construction activities are predicated on the state's schedule for allocating construction funding.

4. Owens and West End Market Food Courts - \$5,000,000 (100% NGF)

This project constructs a seating addition with modifications to the West End Market and renovates the Dining/Food Service areas of Owens Hall.

A/E: Clark Nexsen – Charlotte, NC

Construction Manager: Branch & Associates, Inc. – Roanoke, VA

Status: The authorized project scope is being reevaluated.

**RESOLUTION ON APPOINTMENT TO THE
REGIONAL 9-1-1 EMERGENCY COMMUNICATIONS AUTHORITY**

WHEREAS, the Board of Visitors of Virginia Polytechnic Institute and State University at its August 31, 2009 meeting approved the university's participation in the establishment of a regional 9-1-1 emergency communications authority, conditioned upon the approvals of the local governing boards of the Town of Blacksburg, the Town of Christiansburg, and the County of Montgomery and conditioned upon the General Assembly's passing legislation permitting the formation of the anticipated Authority; and

WHEREAS, the Virginia General Assembly approved legislation known as the "New River Valley Emergency Communications Regional Authority Act" permitting the formation of the Authority; and

WHEREAS, the local governing boards of the Town of Blacksburg, the Town of Christiansburg, and the County of Montgomery need to approve the establishment of a regional 9-1-1 emergency communications authority; and

WHEREAS, the Act provides for the appointment of five persons, one from each participating political subdivision of the Authority, with the fifth member jointly appointed by the unanimous approval of the participating political subdivisions; and

WHEREAS, the Act provides that the appointments be staggered; and

WHEREAS, the terms of appointments of the initial members shall be staggered terms to be selected by lot by the members of the Authority at its initial meetings; and

WHEREAS, pursuant to the Act, the Board of Visitors of Virginia Polytechnic Institute and State University appoints Sherwood G. Wilson, Vice President for Administrative Services, to the Authority as the university's representative for the term selected by the Board members at its initial meeting;

NOW, THEREFORE, BE IT RESOLVED, that Sherwood G. Wilson, Vice President for Administrative Services, be appointed as the University's representative to the Regional 9-1-1 Emergency Communications Authority effective immediately upon approval of the regional 9-1-1 emergency communications authority by the local governing boards.

RECOMMENDATION:

That the above resolution recommending Sherwood G. Wilson, Vice President for Administrative Services, be appointed as the University's representative to the Regional 9-1-1 Emergency Communications Authority be approved.

August 30, 2010

**RESOLUTION ON APPOINTMENT TO THE
BLACKSBURG-CHRISTIANSBURG-VPI
WATER AUTHORITY**

WHEREAS, the Blacksburg-Christiansburg-VPI Water Authority (the Authority) consists of five directors who are responsible for the management and operation of the Authority. One director is appointed by each of the political subdivisions, and the other two directors are appointed jointly by the Virginia Tech Board of Visitors and the Town Councils; and

WHEREAS, the Board of Visitors approved the appointment of Sherwood G. Wilson, the Vice President for Administrative Services, as the university's representative to the Authority on June 1, 2009 to serve for a one-year term expiring August 31, 2010;

NOW, THEREFORE, BE IT RESOLVED, that Sherwood G. Wilson be reappointed as the university's representative to the Blacksburg-Christiansburg-VPI Water Authority for a four-year term expiring August 31, 2014.

RECOMMENDATION:

That the above resolution reappointing Sherwood G. Wilson, Vice President for Administrative Services, as the University's representative to the Blacksburg-Christiansburg-VPI Water Authority through August 31, 2014 be approved.

August 30, 2010

RESOLUTION ON TOWN OF BLACKSBURG EASEMENT

WHEREAS, as a part of the Virginia Tech Corporate Research Center Phase II project, the Virginia Tech Foundation and the Town of Blacksburg have requested that Virginia Tech grant easements to the Town of Blacksburg for a sanitary sewer line and a water line on University property along Tech Center Drive; and

WHEREAS, these easements provide for the installation, operation, and maintenance of a sanitary sewer line and a water line which will serve Phase II of the Virginia Tech Corporate Research Center; and

WHEREAS, the 20' wide sanitary sewer easement is approximately 615.65 feet long and contains approximately 0.2827 acre of real property and the 20' wide water line is approximately 372.88 feet long and contains approximately 0.1710 acre of real property and both easements are more particularly described on a drawing prepared by the Altizer, Hodges & Varney, Inc. dated July 15, 2010; and

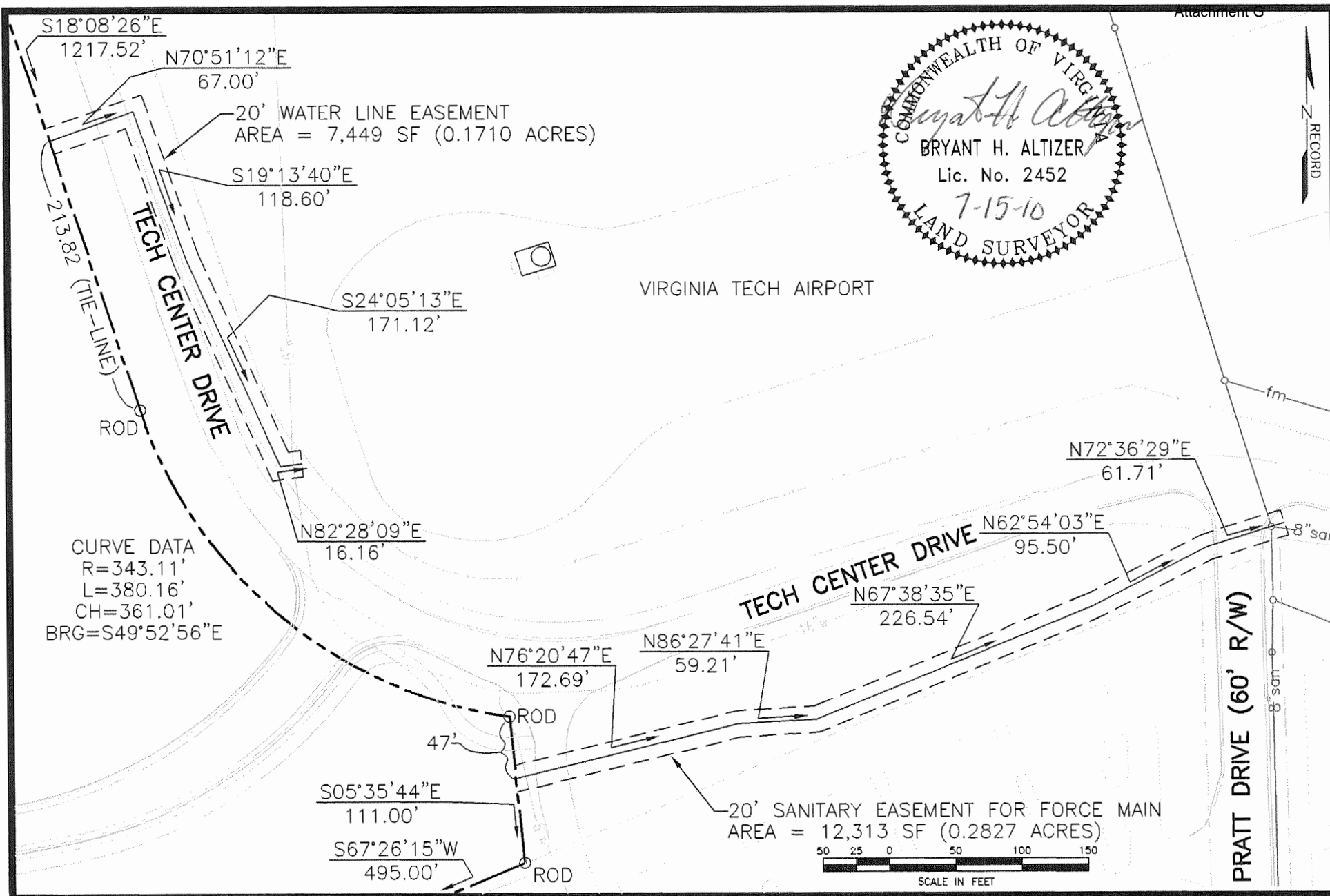
WHEREAS, Virginia Polytechnic Institute and State University desires to grant said easements to the Town of Blacksburg;

NOW, THEREFORE, BE IT RESOLVED, that the University be authorized to execute the easements to the Town of Blacksburg in accordance with Section 23-38.88 of the Code of Virginia (1950), as amended.

RECOMMENDATION:

That the above resolution authorizing Virginia Tech to execute the easements to the Town of Blacksburg be approved.

August 30, 2010



Altizer, Hodges, & Varney, Inc. - Consulting Engineers & Surveyors



20 Midway Plaza Drive, Suite 200, Christiansburg, VA 24073
Phone: 540-382-9410, Fax: 540-382-9492
Email: ahv@ahv-inc.com Webpage: www.ahv-inc.com

DATE : 15 JUL 2010
SCALE : AS SHOWN
DESIGNED: BHA
PROJECT : 2009088

WATER & SEWER EASEMENT
TO THE TOWN OF BLACKSBURG
PRICE'S FORK MAGISTERIAL DISTRICT
MONTGOMERY COUNTY, VIRGINIA

RESOLUTION ON VIRGINIA TECH FOUNDATION EASEMENT

WHEREAS, as a part of the Virginia Tech Corporate Research Center Phase II project, the Virginia Tech Foundation, Inc. has requested that Virginia Tech grant an easement for a communication line on University property along Tech Center Drive; and

WHEREAS, this easement provides for the installation, operation, and maintenance of a communication line conduit which will serve Phase II of the Virginia Tech Corporate Research Center; and

WHEREAS, the 15' wide communication conduit easement is approximately 612.24 feet long and contains approximately 0.2108 acre of real property and is more particularly described on a drawing prepared by the Altizer, Hodges & Varney, Inc. dated July 15, 2010; and

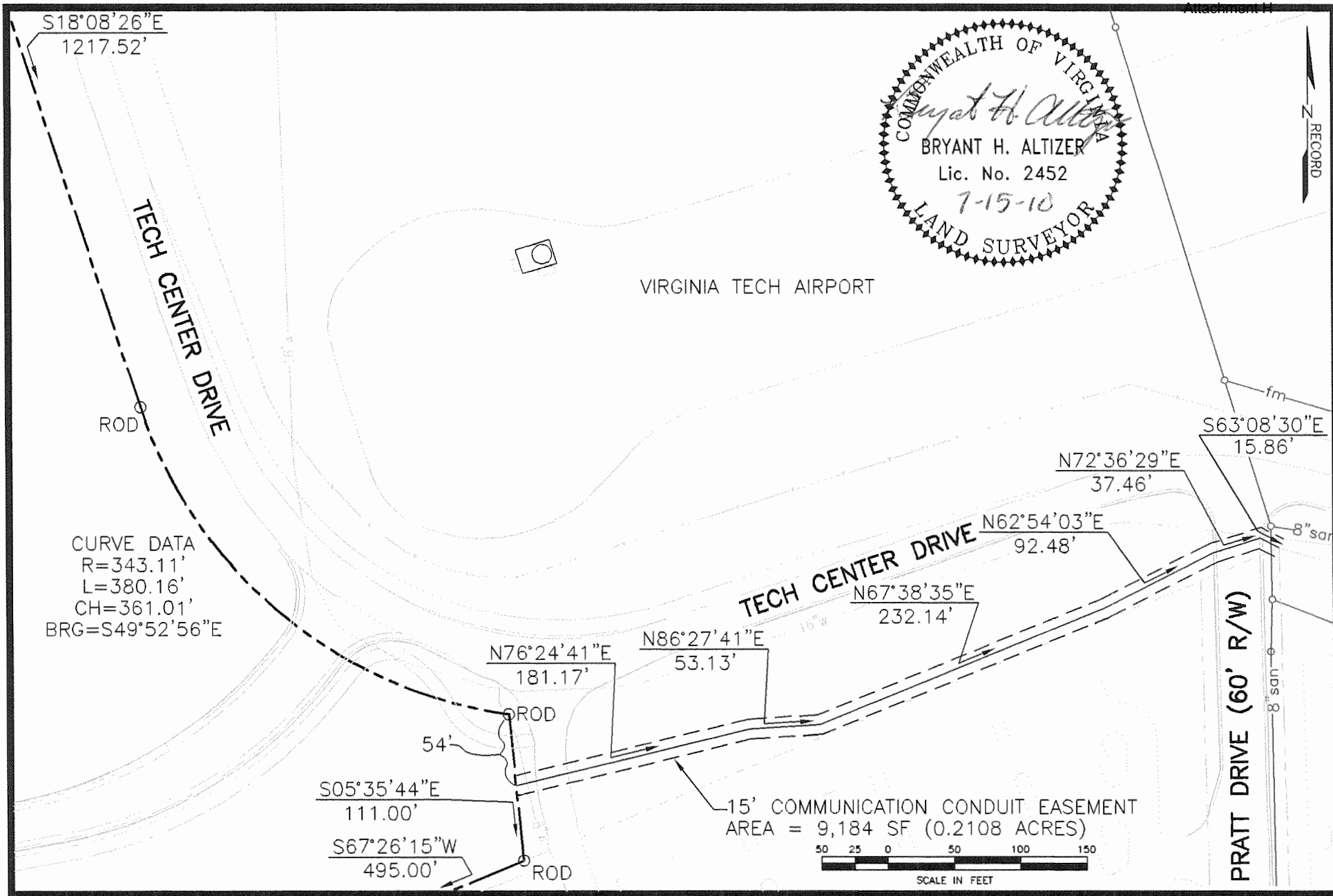
WHEREAS, Virginia Polytechnic Institute and State University desires to grant said easement to the Virginia Tech Foundation;

NOW, THEREFORE, BE IT RESOLVED, that the University be authorized to execute the easement to the Virginia Tech Foundation in accordance with Section 23-38.88 of the Code of Virginia (1950), as amended.

RECOMMENDATION:

That the above resolution authorizing Virginia Tech to execute the easement to the Virginia Tech Foundation be approved.

August 30, 2010



Altizer, Hodges, & Varney, Inc. - Consulting Engineers & Surveyors
 20 Midway Plaza Drive, Suite 200, Christiansburg, VA 24073
 Phone: 540-382-9410, Fax: 540-382-9492
 Email: ahv@ahv-inc.com Webpage: www.ahv-inc.com

DATE : 15 JUL 2010
 SCALE : AS SHOWN
 DESIGNED: BHA
 PROJECT : 2009088

COMMUNICATIONS EASEMENT
 TO THE VIRGINIA TECH FOUNDATION
 PRICE'S FORK MAGISTERIAL DISTRICT
 MONTGOMERY COUNTY, VIRGINIA

**RESOLUTION ON REAFFIRMATION OF AUTHORITY TO THE CHIEF OF POLICE
TO ADOPT AND ENFORCE TRESPASSING REGULATIONS**

WHEREAS, pursuant to §23-234, Code of Virginia, as amended, the campus police are authorized to exercise the powers and duties conferred by law upon police officers of cities, towns, or counties, and

WHEREAS, pursuant to §15.2-1717.1, Code of Virginia, as amended, this Board of Visitors may delegate to the campus police the authority to forbid another from trespassing on the lands, buildings, or premises of Virginia Polytechnic Institute and State University, and

WHEREAS, the Board of Visitors desires to reaffirm its delegation to the Chief of Police the responsibility for enforcing trespassing violations.

THEREFORE, be it resolved that the Board of Visitors reaffirm its delegation to the Chief of Police the authority to develop and enforce procedures in accordance with the provisions of the Code of Virginia, to prevent trespassing upon the lands, buildings, or premises of Virginia Polytechnic Institute and State University.

RECOMMENDATION:

That the above resolution reaffirming delegation of authority to the Chief of Police the responsibility for enforcing trespassing violations be approved.

August 30, 2010

Committee Minutes

FINANCE AND AUDIT COMMITTEE

**Duck Pond Room, The Inn at Virginia Tech
8:30 a.m.**

August 30, 2010

Finance Closed Session

Board Members Present: Mr. Michael Anzilotti, Dr. Calvin Jamison, Mr. Michael Quillen, Mr. Paul Rogers

VPI & SU Staff: Ms. Kay Heidbreder, Ms. Sharon Kurek, Mr. M. Dwight Shelton, Jr.

1. Motion for Closed Session

- * 2. **Ratification of Personnel Changes Report:** The Committee met in Closed Session to review and take action on the quarterly personnel changes report.

Finance Open Session

Board Members Present: Mr. Michael Anzilotti, Dr. Calvin Jamison, Ms. Maxine Lyons – Staff Representative, Mr. George Nolen, Mr. Michael Quillen, Mr. Paul Rogers

VPI & SU Staff: Mr. Erv Blythe, Mr. Allen Campbell, Mr. Al Cooper, Mr. John Cusimano, Mr. Marc DeBonis, Mr. Corey Earles, Mr. Michael Flora, Ms. Debbie Fulton, Ms. Natalie Hart, Mr. Tim Hodge, Ms. So-Young Hong, Ms. Elizabeth Hooper, Ms. Sharon Kurek, Mr. Ken Miller, Ms. Terri Mitchell, Ms. Kim O'Rourke, Mr. Mark Owczarski, Ms. Lisa Royal, Mr. M. Dwight Shelton, Jr., Mr. Ken Smith, Dr. Raymond Smoot, Jr., Dr. Charles Steger, Mr. Jeb Stewart, Ms. Melinda West, Dr. Lisa Wilkes

Guests: Mr. Gordon Block

1. Motion to Reconvene in Open Session

- 2. **Approval of Items Discussed in Closed Session:** The Committee reviewed and ratified the quarterly personnel changes report.
- 3. **Opening Remarks and Approval of Minutes of the June 7, 2010 Meeting:** The Committee reviewed and approved the minutes of the June 7, 2010 meeting.

4. **Update on Higher Education Restructuring:** The Committee received an update on Higher Education restructuring activities and accomplishments during the university's fourth year of implementation. The university has already implemented most of the authorities available through the Management Agreement. Work will occur during 2010-11 to fully establish the building official and the code review unit authorities under capital outlay, as well as the modification of existing financial management practices to improve efficiency and contain costs. The Committee will receive an update on the Performance Measures for the 2009-10 fiscal year at the November Board meeting.
- * 5. **Approval of Potential Operating and Capital Budget Initiatives for 2011-12:** The Committee reviewed for approval the potential operating and capital budget initiatives for 2011-12. In preparation for the 2011 General Assembly session, the university has developed a list of potential operating and capital budget initiatives which are consistent with the initiatives approved for submission in the university's 2010-12 biennial budget request and the university's 2010-16 Capital Plan request. Several important statewide issues are traditionally addressed centrally and are not included in Virginia Tech's list of initiatives. The issues that are normally coordinated by the State Council of Higher Education for Virginia (SCHEV) and the Department of Planning and Budget (DPB) include the following: faculty and staff salaries, base budget adequacy, equipment trust fund, eminent scholars, maintenance reserve, and student financial assistance.

Operating initiatives are under consideration for support for increased student enrollments, research initiatives, and operating support for the Center for Creative Technologies in the Arts. The operating initiatives also include the costs related to the operation and maintenance of facilities opening during 2011-12 and consideration for additional operating support of the restructured Cooperative Extension and Agricultural Experiment Station division. Currently, the capital initiatives reflect technical adjustments to capital appropriations.

It is uncertain that the university will be provided the opportunity to submit budget initiatives; however, the university believes these budget initiatives would meet the criteria for submission to the Executive Budget. When budget amendment instructions are received from state officials, the budget submission will be modified as necessary to conform to that guidance. The university may elect to use all or some of these initiatives in a budget submission. The Administration develops budget amendments that the Governor will offer to amend the 2011-12 annual budget. The Governor must submit the Executive Budget to the General Assembly on or before December 20, 2010.

The Committee recommended the Potential Operating and Capital Budget Initiatives for 2011-12 to the full Board for approval.

- * 6. **Approval of Year-to-Date Financial Performance Report (July 1, 2009 – June 30, 2010):** The Committee reviewed for approval the Year-to-Date Financial

Performance Report for July 1, 2009 – June 30, 2010. For the fourth quarter, all programs of the university are on target and routine budget adjustments were made to reflect changes in General Fund revenues and expenditure budgets in academic and administrative areas.

During the fourth quarter, the revenue and expenditures budgets for General Funds include adjustments of \$3.5 million for reduced appropriations resulting from the state furlough and suspensions and deferrals of fringe benefit costs. Federal revenues in CE/AES were less than budgeted due to a temporary delay as a result of a change in the process of drawing down federal funds; these funds were received in early July. Revenues in Sponsored Programs were less than projected, but ahead of previous year's activity levels. Expenditures in the Auxiliary Enterprises are less than budgeted due to temporary savings that result from projects that have been initiated but remain incomplete as of June 30, 2010; these obligations will be carried over into 2010-11.

For the quarter ending, June 30, 2010, \$92.1 million had been expended for Educational and General and General Obligation Bond Projects, and \$73 million in expenditures were incurred for Auxiliary Enterprises capital projects. Capital outlay expenditures for the year totaled \$165.1 million.

The Committee recommended the Year-to-Date Financial Performance Report to the full Board for approval.

- * 7. **Approval of 9(c) Debt Financing Resolutions:** The Committee reviewed for approval two resolutions authorizing the issuance of bonds through the Treasury Board on behalf of the university to finance \$750,000 for the Parking Auxiliary Improvements project and \$35.15 million for the dining component of the Academic and Student Programs Building project.

The proposed resolutions identify the Vice President for Finance and Chief Financial Officer, and the University Treasurer, as each being authorized to execute and deliver all certificates and instruments and to take all such further action as may be considered necessary or desirable in connection with the sale and issuance of the bonds.

The Committee recommended the 9(c) Debt Financing Resolutions to the full Board for approval.

- * 8. **Approval of 9(d) Debt Financing Resolution:** The Committee reviewed for approval a financing resolution through the state's 9(d) Virginia College Building Authority pooled bond program to finance \$53 million for the Henderson Hall/Center for Creative Technologies project and \$10 million for the instructional component of the Academic and Student Programs Building project.

The proposed resolution identifies the Vice President for Finance and Chief Financial Officer, and the University Treasurer, as each being authorized to

execute and deliver all certificates and instruments and to take all such further actions as may be considered necessary or desirable in connection with the sale and issuance of the bonds.

The Committee recommended the 9(d) Debt Financing Resolution to the full Board for approval.

- * 9. **Approval of Resolution to Reappoint University Commissioner to the Hotel Roanoke Conference Center Commission:** The Committee reviewed for approval a resolution concerning a reappointment to the Hotel Roanoke Conference Center Commission. The resolution seeks approval to reappoint the Vice President for Outreach and International Affairs as the university's representative on the Hotel Roanoke Conference Center Commission.

The Committee recommended the resolution to reappoint a University Commissioner to the Hotel Roanoke Conference Center Commission to the full Board for approval.

- * 10. **Approval of the Virginia Tech Technology Services and Operations Corporation:** The Committee reviewed for approval a resolution seeking authorization, at the President's subsequent discretion, to establish the Virginia Tech Technology Services and Operations Corporation as a university-related corporation. The corporation would manage strategic emerging technologies and services with the potential to scale beyond serving only Virginia Tech, to attract external public and private partners, or to spin-out as independent entities where there is significant potential return or advantage to the university. Additionally, the affiliation agreement governing the corporation's relationship to the university was presented for approval.

The Committee recommended the Virginia Tech Technology Services and Operations Corporation resolution to the full Board for approval.

Audit Closed Session

Board Members Present: Mr. Michael Anzilotti, Dr. Calvin Jamison, Mr. Michael Quillen, Mr. Paul Rogers

VPI & SU Staff: Ms. Kay Heidbreder, Ms. Sharon Kurek, Mr. M. Dwight Shelton, Jr.

1. **Update on Fraud, Waste, and Abuse Cases:** The Committee met in Closed Session to receive an update on the outstanding fraud, waste, and abuse cases.

2. **Discussion with the Director of Internal Audit:** The Committee met in Closed Session with the Director of Internal Audit to discuss audits of specific departments and units where individual employees were identified.

Audit Open Session

Board Members Present: Mr. Michael Anzilotti, Dr. Calvin Jamison, Ms. Maxine Lyons – Staff Representative, Mr. Michael Quillen, Mr. Paul Rogers

VPI & SU Staff: Mr. Erv Blythe, Mr. Allen Campbell, Mr. Al Cooper, Mr. John Cusimano, Mr. Marc DeBonis, Mr. Corey Earles, Mr. Michael Flora, Ms. Debbie Fulton, Ms. Natalie Hart, Mr. Tim Hodge, Ms. So-Young Hong, Ms. Elizabeth Hooper, Ms. Sharon Kurek, Mr. Ken Miller, Ms. Terri Mitchell, Ms. Kim O'Rourke, Mr. Mark Owczarski, Ms. Lisa Royal, Mr. M. Dwight Shelton, Jr., Dr. Raymond Smoot, Jr., Dr. Charles Steger, Mr. Jeb Stewart, Ms. Melinda West, Dr. Lisa Wilkes

Guests: Mr. Gordon Block

1. **Opening Remarks and Approval of Minutes of the June 7, 2010 Meeting:** The Committee reviewed and approved the minutes of the June 7, 2010 meeting.
2. **Review and Acceptance of University's Update of Responses to all Previously Issued Internal Audit Reports:** The Committee reviewed the university's update of responses to all previously issued internal audit reports. At the June meeting, the university reported that as of April 1, 2010, one audit comment remained outstanding. Twenty-six audit comments have been issued since then. As of June 30, 2010, the university has addressed 16 comments, leaving 11 open recommendations in progress.

The Committee accepted the report.

3. **Presentation, Discussion, and Acceptance of Internal Audit Department's Quarterly Report and Annual Status Report for the Fiscal Year Ended June 30, 2010:** The Committee reviewed the Internal Audit Department's Status Report as of June 30, 2010. In addition to conducting scheduled audits, the audit department conducted the campus-wide risk assessment in preparation of the fiscal year 2011 audit plan; and participated in annual audit activities, fraud audits, and professional development activities. In response to a question from the Committee, the Internal Audit director confirmed that Internal Audit prepares an annual risk assessment in consultation with the president and university management, whereby identifying areas of high business risk and including those areas in the audit plans.

The Committee accepted the report.

4. **Review and Acceptance of 2011 Audit Plan:** The Committee reviewed the suggested audits for the approval of the audit plan for fiscal year 2011. Internal Audit conducted the annual risk assessment after reviewing financial data and seeking input from senior management. Approximately 7,400 hours annually will be devoted to risk-based audits and compliance reviews and 1,200 hours are allotted for advisory services. Twenty-two audits and six compliance reviews are proposed for 2010-11. Audits not completed in the scheduled fiscal year will be carried forward to the next fiscal year.

The Committee accepted the report.

5. **Review and Acceptance of the following Internal Audit Reports and Memos Issued:** The Committee reviewed and accepted the following Internal Audit reports:

- a. **Athletics Department - Operations:** The audit indicated that management has designed controls that are often effective at reducing the Athletics Department exposure to business risks, but the controls are not consistently applied. Some improvements are recommended to increase operational efficiency and oversight within the department in the areas of complimentary ticket practices, contract validation, courtesy car recordkeeping practices, and ticket system access.
- b. **Cooperative Extension:** The audit indicated that management has designed and implemented controls that are often effective at reducing Virginia Cooperative Extension's exposure to many of the business risks it faces, but improvements are recommended to achieve a fully effective system of internal controls. Audit recommendations were issued to management where opportunities for further improvements were noted in the areas of adherence to local funds handling procedures and training. On a positive note, the audit found that process improvements were noted for the Extension offices visited as disbursements were not made from checking accounts but through HokieMart or purchase cards, which provided an additional level of scrutiny.
- c. **Departmental Scholarships:** The audit indicated that management has designed and implemented controls that are often effective at reducing the exposure to the many business risks the departmental scholarship awarding process faces, but improvements are recommended to achieve a fully effective system of internal controls. Audit recommendations were issued to management where opportunities for further improvements were noted in the areas of scholarship awarding and maximum utilization of available scholarships funding. On a positive note, the audit found that the academic colleges and their departmental units have established scholarship committees to review the scholarship criteria, student applications and other relevant documentation to score and rank the students.

- d. **Electronic Sensitive Data:** The audit indicated that management has designed and implemented controls that are often effective at reducing the university's exposure to many of the electronic sensitive data risks it faces, but improvements are recommended to: ensure compliance with policies and standards for protecting sensitive university information in digital form; improve the efficiency and effectiveness of tools and solutions recommended to locate and encrypt sensitive university information in digital form; and increase awareness of requirements to protect sensitive university information. On a positive note, the audit found that the Information Technology Security Office (ITSO) monitors the Virginia Tech network for computers that may host sensitive university information and exhibit potential security vulnerabilities. When computers with vulnerabilities are discovered, the ITSO works effectively with the associated system administrators to eliminate the vulnerabilities.
- e. **Systems Support and E-Discovery:** The audit indicated that management has designed controls that are effective at reducing System Support and E-Discovery's exposure to business risks. Systems Support and E-Discovery, including E-Communications Services/Windows Services, Storage Management, and UNIX Administration Services teams, does an excellent job at managing and administering highly complex and mission critical systems and services.
- f. **Leave Accounting:** The audit indicated that management has designed and implemented controls that are often effective at reducing Leave Accounting's exposure to many of the business risks it faces, but improvements are recommended to achieve a fully effective system of internal controls. Audit recommendations were issued to management where opportunities for further improvements were noted in the areas of the automation initiatives, leave submission monitoring, and leave balance adjustments.
- g. **Surplus Property Compliance:** The audit indicated that management has designed and implemented controls that are often effective at reducing Surplus Property's exposure to some of the business risks it faces, but improvements are recommended to achieve a fully effective system of internal controls on data removal completion and recordkeeping.
- h. **University Unions and Student Activities:** The audit indicated that management has designed and implemented controls that are often effective at reducing University Unions and Student Activities' exposure to many of the business risks it faces, but improvements are recommended to achieve a fully effective system of internal controls. Audit recommendations were issued to management where opportunities for further improvements were noted in the areas of the electronic timekeeping system and physical security of Production Services equipment.

6. **Review of Auditor of Public Accounts Statewide Reviews and Special Reports:** In addition to the annual audits of the university's financial statements and its Intercollegiate Athletics program, the Auditor of Public Accounts (APA) has included Virginia Tech along with other agencies in recent program reviews designed to assess controls on a statewide basis. The Committee reviewed a report which provided an analysis of the APA's statewide audit activities to date and the university's planned approach to manage and report on these audit activities.

Since the last report, the APA has issued two statewide audit reports that reference or impact Virginia Tech. Review of Commonwealth Internal Audit Functions (March 2010), and Follow-up on Deferred Maintenance in the Commonwealth (December 2009). The APA statewide reviews included no specific recommendations to the university. In addition, the APA has issued several special reports including systems recommendations that may, if fully implemented, result in undesirable outcomes for the university. The committee received an overview of these special reports and potential impacts. The committee expressed concern about the potential cost to the university related to new systems implementation at the state-level. The committee requested that the university conduct a cost-benefit analysis of system modifications or new systems requirements resulting from the state's implementation.

7. **Discussion of the Current Status of the June 30, 2010 Audit of the University's Financial Statements:** The Committee received a report on the current status of the audit of the university's financial statements for 2009-10.

There being no further business, the meeting adjourned at 11:41 a.m.

Update on Higher Education Restructuring Activities

FINANCE AND AUDIT COMMITTEE

August 9, 2010

Background

The 2005 General Assembly enacted the Restructured Higher Education Financial and Administrative Operations Act of 2005 (Restructuring Act). This Act provided restructuring benefits and responsibilities for all Virginia institutions of higher education. For Virginia Tech, the Act also provided the opportunity to apply for additional “Level 3” authority and responsibilities. In November 2005, the Board of Visitors approved a resolution adopting Virginia Tech’s Management Agreement and related operational policies and performance measures, in accordance with the Restructuring Act and as approved by the Governor’s Office. The 2006 General Assembly converted the Management Agreement into a Section One Bill, which was subsequently passed by the General Assembly and signed by the Governor. The University of Virginia and the College of William and Mary were also granted Level 3 status in 2006.

With the approval of the Management Agreement legislation, effective July 1, 2006, the university was granted the authority to operate as a Covered Institution in accordance with its Management Agreement and operational policies for a period of four years. The Management Agreement provides the university greater autonomy in the areas of capital outlay, leasing, procurement, information technology, finance, and human resources. Accountability is an important part of the Restructuring Act, and all institutions of higher education have a common set of performance measures to achieve. Further, Management Agreement institutions have additional performance measures created through the application for Covered Institution status.

Many aspects of the Management Agreement and related operational policies were implemented as of July 1, 2006. For specific elements of some policies, such as the establishment of a University Building Official, implementation efforts continued during the 2009-10 fiscal year.

Legislation was approved amending and reenacting the current Management Agreement through June 30, 2012, provided the Governor provides written notification that the Management Agreement needs to be renegotiated or revised by November 15, 2011. Otherwise, the Management Agreement shall continue in effect until June 30, 2015. Effective July 1, 2008 Virginia Commonwealth University became the state’s fourth Level 3 institution.

In addition, the four Management Agreement institutions continued a joint workgroup team, represented by a Vice President from each institution, to coordinate implementation strategies where possible and to pursue consistent solutions to outstanding issues with the Commonwealth. This approach has proven to be both

efficient and very successful; Virginia Tech has benefited from several improvements made during the past four years and continues to evaluate changes for the future.

The following narrative provides a brief overview of a few of the university's restructuring activities and accomplishments during the fourth year of implementation by functional area.

Capital Outlay

The university's system for carrying out its capital outlay process is now governed by policies adopted by the Board of Visitors. Under this new authority, Board of Visitors' approval of nongeneral funded capital projects, on a when needed basis, has reduced the amount of time required for the capital project pre-appropriation process. The university equates the number of days saved as a program enhancement resulting in overall cost savings to the project and in added confidence of the project cost estimate due to more assurance of the interest rate estimates and the reduced inflation.

In lieu of a state review process, the university now does an "on-board" review with the Bureau of Capital Outlay Management (BCOM) at the Schematic Design Phase. While the Board of Visitors continues to approve project schematic designs, the university has eliminated the formal Schematic Design and Design Development BCOM reviews and in doing so has reduced the total design time by one to two months per project.

The university handles enforcement of the administrative requirements set forth in the Construction and Professional Services Manual, which creates a more efficient administration of capital project processes and scheduling. In the fourth year of Restructuring, the management benefits of restructuring currently impact over 31 active capital projects, including 12 nongeneral fund capital authorizations approved by the Board of Visitors.

Additionally, the Restructuring Act and the Management Agreement grant the authority to the university to designate its own building official and create its own building code review unit. At the June 20, 2008 meeting, the Board of Visitors passed a resolution authorizing the university to designate a University Building Official and create a building code review unit. The Board also amended its Bylaws to reflect that when serving in the capacity of the University Building Official, the university employee will report organizationally to the Board through the Buildings and Grounds Committee. A University Building Official was hired in 2010.

Further, the Restructuring Act and the Management Agreement grant the Board of Visitors authority to approve the disposition of any building. Since July 1, 2009, the Board of Visitors has approved the demolition of two structures.

Leases and Easements of Real Property

The Management Agreement provides for the acquisition of easements and management of leases by public institutions of higher education. Since July 1, 2009, the Board of Visitors has approved four resolutions granting easements, but the university did not need to acquire any easements during the fiscal year. The Restructuring Act also made permanent the delegated authority to enter into operating and income leases, and the Management Agreement provided authority to enter into capital leases.

Procurement

The provisions of the Management Agreement related to procurement were fully implemented during the 2006-07 fiscal year. During 2008-09, as part of the negotiations that were conducted to extend the Management Agreement until 2012, agreement was reached for new performance measures for the procurement function and one modification to the Rules document that will further streamline the procurement process. The Director of Materials Management provided assistance to other universities seeking to obtain Level 2 authority for procurement.

During fiscal year 2009-10, the universities operating under the restructuring program (including Level 2 universities with procurement authority) created a shared website that contains the Rules Document, the Higher Education Purchasing Manual, a searchable cooperative contract database, and other related information. Additionally, the Level 3 universities worked together to reach agreement with the Department of Accounts for local management of the purchasing card program. The four Level 3 institutions have similar general principles for program management and ample latitude for local flexibility.

A rebate was received from the state for P-card transactions for \$92,326. A credit of \$93,252 was provided for eVA transaction fees paid for sole source procurements enacted during the prior fiscal year.

The HokieMart electronic business system continued to develop. Electronic invoicing was being conducted with 13 major suppliers. This project is ongoing. A new project was started to pay invoices using a credit card, further automating the university's procure-to-pay system and providing a new source of revenue. The project is planned for incremental implementation during 2010-11.

At year-end, the HokieMart contained 21 active "punch out" supplier catalogs, with three in the development pipeline. There were 14 active hosted, private pricing supplier catalogs. Finally, there were 111 internal university service organizations enabled to receive electronic orders through the system.

Information Technology

Under the Management Agreement in the area of Information Technology, the university received autonomy in the following areas: strategic planning; expenditure reporting and budgeting; project management; infrastructure, architecture, and ongoing operations; and security. Implementation of the Information Technology management agreement has proven to be effective.

Virginia Tech has complied with the requirements in the Information Technology Management Agreement and has made available, to the Commonwealth Chief Information Officer, the Information Technology strategic plan, fiscal year IT expense reports, project management standards, and security standards and guidelines. The Board of Visitors has approved the overarching information technology policies in the areas of strategic planning; Infrastructure, architecture and ongoing operations; project management; and security. The development of new standards and guidelines, which provide specific operating details, is constantly considered. Current standards and guidelines are reviewed periodically to ensure their effectiveness.

Security is continually evaluated and strengthened as the environment changes. This includes the addition of new tools, refined training, and improved security process and procedures. New policies and standards have been implemented that will continue to improve awareness, enhance the handling procedures and ultimately increase the safeguarding of sensitive information.

The project management methodology for information technology initiatives has become a refined process. The project management committee continues to evaluate possible modifications that improve the procedures.

The expanded Information Technology autonomy has allowed the university's information technology units to operate in a more efficient, prompt manner to meet the needs of the university, especially with regard to research and instructional activities.

Finance and Accounting

The Management Agreement replaced the prior delegated finance and accounting pilot programs in place for several years. This allowed the university to maintain its current operating environment and to set the stage for more significant improvements during the remaining years of the agreement.

In July 2007, the university successfully implemented new processes related to cash and investment processes. All nongeneral fund cash balances, including auxiliary system funds, were transferred to the three companies hired to perform investment management and custodial services, and procedures were finalized for the drawdown of General Fund appropriations and the ongoing transfers of nongeneral funds collected by the university. All such funds and the interest earnings thereon were retained and invested by the university, except for interest earnings on General Funds, which were

escrowed quarterly with the State Treasurer as required under the management agreement. Since the university met the performance standards of the Restructuring Act in each year since inception the earnings escrowed for each corresponding fiscal year has been returned to the university. Although the university interest earnings declined in fiscal year 2009-10 due to falling interest rates and a continuing sluggish economy, the university continued to manage its investments successfully during the year.

The university also took advantage of the additional authority to implement a short-term commercial paper program to fund various capital outlay expenditures until permanent financing is issued. This program was approved by the Board in March 2008, and the university began accessing such funding in June 2008.

The university also made progress on implementing its own processes to eliminate its dependence on state processes. The university implemented an electronic (EDI) vendor payment process for major vendors and payment of invoices through credit cards. These programs should complement each other and allow us to achieve greater enrollments of vendors in automated payment processes during the coming year. Vendor enrollment for EDI has been slower than anticipated, but efforts to attract additional vendors continue. By June 30, 2010, 200 vendors had been enrolled in this program, including 25 of the top 50 vendors based on volume of invoices paid. Further, significant efficiencies have been realized in accounts payable through the implementation of the Banner and SciQuest systems' new capability for the processing of electronic invoices from vendors. By June 30, 2010, 13 of the top 50 vendors based on volume of invoices paid (vendors with greater than 500 invoices per year) were successfully enrolled in the e-invoice program. Approximately 8.4 percent of the total volume of invoices was received via e-invoices during fiscal year 2010.

The implementation of the new project to pay invoices using a credit card will give the university another option to pay invoices through an automated process and reduce the creation of paper checks. The process to enroll vendors began late in the fiscal year and the initial results are promising. This process will also create a new revenue stream to the university through payment from the credit card bank based on business volume.

A subcommittee of the covered institutions completed a review of existing state accounting procedures related to accounts payable and travel reimbursements and developed proposed alternatives to streamline processes. These materials were reviewed and discussed with the State Comptroller. The revised procedures were implemented effective July 1, 2009 and have resulted in more cost-effective operations for departmental units throughout the campus. This process was continued in fiscal year 2009-10 by developing alternative procedures for moving and relocation processes and purchase card administrative processes to be implemented in fiscal year 2010-11.

During fiscal year 2008-09, a subcommittee from the four (including Virginia Commonwealth University) covered institutions met with state officials from the general assembly staff, the Department of Planning and Budget, and the State Comptroller's

Office to address reporting needs specified under the management agreements. Although the universities had previously offered to send such reports, the state agencies had delayed providing feedback as to the nature and format of the information needed. The subcommittee was able to successfully negotiate a solution resulting in the submission of a monthly data file of expenditure data in a format consistent with the state accounting system (CARS). During fiscal year 2009-10, this process of sending the data file continued and the state Comptroller's staff summarized this data and posted transactions to CARS. While this process is efficient on the front end, it has been very inefficient at month-end because the university is now required to reconcile the items posted to CARS to the university's accounting system, which was one of the processes initially eliminated through Restructuring.

Human Resources

The Management Agreement provides for the establishment of a university human resources system and the flexibility to create new human resources policies for employees hired after July 1, 2006. University staff members are not covered by the state's Personnel Act or state personnel policies, allowing the university the flexibility to create new human resources policies. The major policy difference between university and classified staff is the performance management policy for university staff that allows differentiation in pay increases based on individual performance.

The university redefined and realigned administrative and professional (A/P) faculty appointments to support the conversion of more senior-level staff positions to A/P faculty status thereby addressing equity issues and recruitment difficulties.

To date, only 13 classified staff members have elected to convert to university staff. The university believes the low level of conversions is based on the lack of perceived advantages to employees. The university will offer another opportunity for classified staff to convert in the spring of 2011, and the likelihood of a merit-based increase may once again play into this decision.

Performance Measures

Education-related, financial, and administrative management measures are the basis on which the State Council of Higher Education of Virginia (SCHEV) annually assesses and certifies institutional performance related to Level 1 restructuring benefits and requirements. The education related performance measures are developed in conjunction with SCHEV, and these measures are key components of the six-year academic plans reviewed with the Board of Visitors on a biennial basis. The finance and administrative measures are included in the Appropriation Act.

In June 2009, SCHEV resolved that the university had satisfactorily met the performance standards of the Higher Education Restructuring Act and Appropriation Act for 2009-10 and certified Virginia Tech's eligibility to receive the resulting financial benefits for that year. This approval included all of the administrative and financial

measures, including the prior Management Standards, which have been in place for many years.

Through the 2008-09 fiscal year, the Level 3 universities also have institutional performance measures created through the application for Covered Institution status. The university established a process to track compliance with these additional measures and believes it continues to comply with each of the measures. As of the 2009-2010 fiscal year, these Level 3 measures are included directly into the Appropriation Act measures.

During 2009-10 fiscal year, the university continued to work closely with the University of Virginia and the College of William and Mary, as well as Virginia Commonwealth University, to ensure that all four Level 3 schools address these institutional performance measures requirements in a consistent manner. Management will provide a report to the Finance and Audit Committee at its next meeting detailing the university's performance for each of these Finance and Administrative standards for the 2009-10 fiscal year.

Plans for 2010-11

The increased autonomies conferred by the Management Agreement continue to benefit the university. While the university is now four years into the Management Agreement operating period, implementation work and related activities to exercise the restructuring authorities continue. The highest priority activities for 2010-11 are described below.

Human Resources Implementation. A major focus of the upcoming year will be to develop and implement an online performance management system, incorporating feedback from the pilot experience this fall. The new performance management system will use four levels of performance ratings for university staff (model performance, strong performance, developing performance, and unacceptable performance). The system is being used on a voluntary basis in fall 2010, but will be required in fiscal year 2011-12.

Finance and Accounting. The university continues to explore areas in which its restructuring flexibility regarding financial management can be maximized. The Management Agreement provides the university the opportunity to modify existing accounting policies and procedures to establish a more efficient, tailored accounting environment. During fiscal year 2010-11, the university will continue to work on the redesign of the vendor debt set-off process to enable the university to correspond directly with the Department of Taxation, eliminating the need to send these transactions through the state's accounting system in the future. The university will continue to expand its use of various automated processes and new administrative procedures to improve efficiencies in vendor payment and invoice processing.

Challenges to the efficiencies and autonomies gained through Restructuring may come from the efforts of the Auditor of Public Accounts and the various central state agencies to increase transparency and uniformity in all state financial processes. The university remains concerned that the real costs and opportunity costs of such efforts would be significant with negligible benefits to the university, and it continues to monitor these efforts.

Capital Outlay. The Vice President for Administrative Services is in the process of establishing the building code review unit to support code review functions for Virginia Tech. This work should result in a significantly modified capital planning and construction process.

Update to Responses to Open Internal Audit Comments

FINANCE AND AUDIT COMMITTEE

June 30, 2010

As part of the internal audit process, university management participates in the opening and closing conferences and receives copies of all Internal Audit final reports. The audited units are responsible for implementing action plans by the agreed upon implementation dates, and management is responsible for ongoing oversight and monitoring of progress to ensure solutions are implemented without unnecessary delays. Management supports units as necessary when assistance is needed to complete an action plan. As units progress toward completion of an action plan, Internal Audit performs a follow up visit within two weeks after the target implementation date. Internal Audit is responsible for conducting independent follow up testing to verify mitigation of the risks identified in the recommendation and formally close the recommendation. As part of management's oversight and monitoring responsibility, this report is provided to update the Finance and Audit Committee on the status of outstanding recommendations. Management reviews and assesses recommendations with university-wide implications and shares the recommendations with responsible administrative departments for process improvements, additions or clarification of university policy, and inclusion in training programs and campus communications. Management continues to emphasize the prompt completion of action plans. Attachment 3 reflects performance in implementing recommendations in accordance with action plans over the last seven years.

Consistent with the report presented at the June board meeting, the report of open audit recommendations includes the following two sections:

- Attachment 1 summarizes each audit in order of final report date, with extended and on-schedule open high or medium priority recommendations grouped by priority.
- Attachment 2 details all open high or medium priority recommendations for each audit, in order of the original target completion date, and including an explanation for those having revised target dates or revised priority levels.

The report presented at the June 7, 2010 meeting covered internal audit reports reviewed and accepted through the prior board meeting, and included one open high priority recommendation. Activity for the quarter ended June 30, 2010 resulted in the following:

Open recommendations as of April 1, 2010	1
Add: Medium and High priority recommendations issued	26
Subtract: recommendations addressed	16
Remaining open recommendations as of June 30, 2010	<u>11</u>

While this report is prepared as of the end of the quarter, management has traditionally conducted an informal review of the status of the open recommendations before the board meeting. The 11 open recommendations are progressing as expected and are on track to meet their respective target due dates.

Open Recommendations by Priority Level

FINANCE AND AUDIT COMMITTEE

June 30, 2010

Report Date	Audit Name	Audit Number	Total Recommendations						
			ISSUED	COMPLETED	OPEN				
					Extended		On-schedule		Total
					High	Medium	High	Medium	Open
22-Feb-10	Learning Technologies	900	1	1					0
13-May-10	Environmental Health and Safety Services	899	5	2			1	2	3
14-May-10	Dining Services	907	3	2			1		1
17-May-10	Department of Chemistry	909	6	4				2	2
17-May-10	Information Technology Security Office	904	4	2				2	2
17-May-10	University Scholarships and Financial Aid	908	3	2				1	1
18-May-10	Facility Services - Renovation	779	5	3			1	1	2
Totals:			27	16	0	0	3	8	11

Internal Audit Open Recommendations

ATTACHMENT 2

FINANCE AND AUDIT COMMITTEE

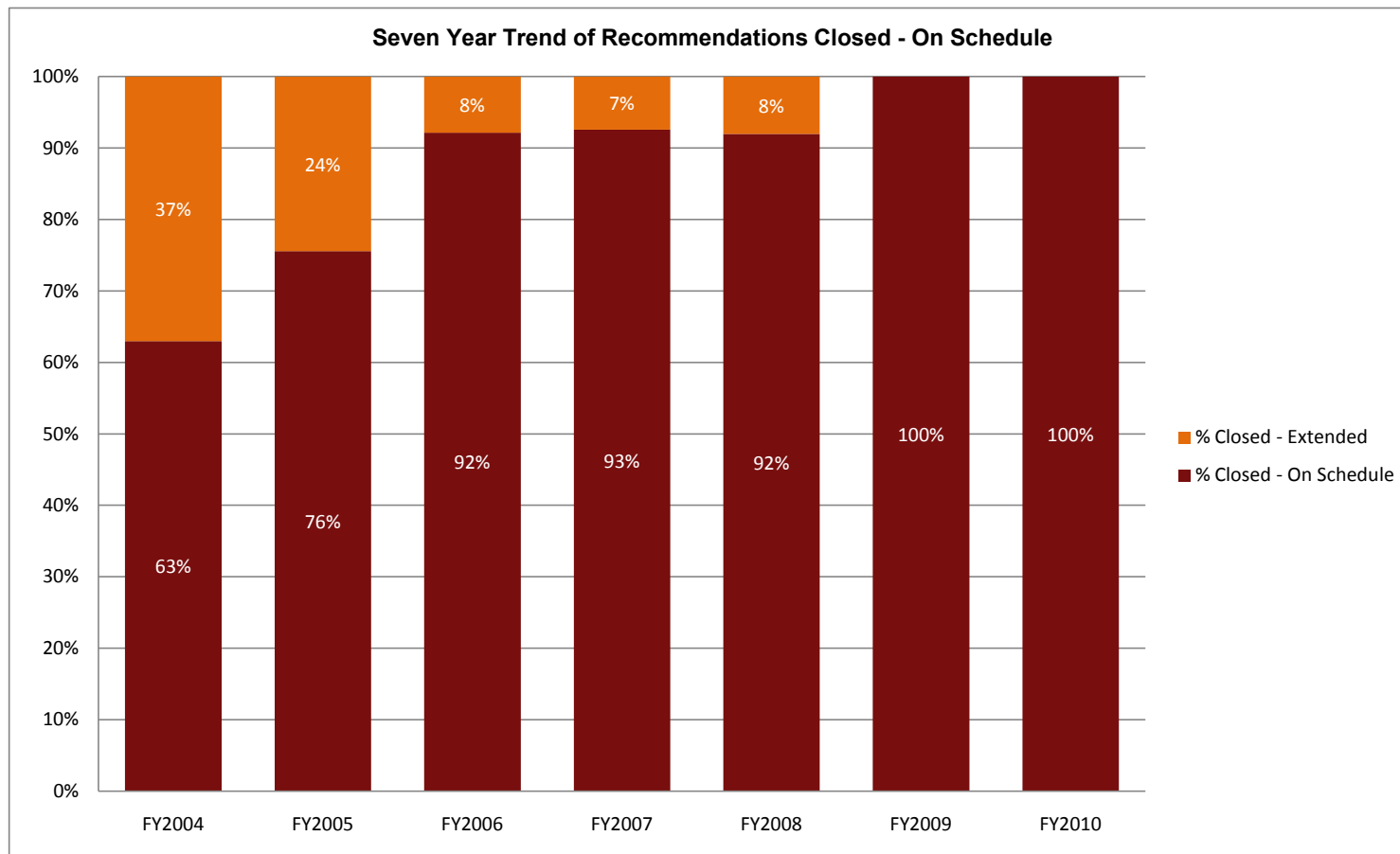
June 30, 2010

Report Date	Item	Audit Number	Audit Name	Recommendation Name	Priority		Target Date		Follow Up Status	Status of Recommendations with Revised Priority / Target Dates
					Original	Revised	Original	Revised		
17-May-10	1	909	Department of Chemistry	Health and Safety	Medium		31-Aug-10		1	
14-May-10	2	907	Dining Services	Strengthen Controls Over Electronic Timekeeping System	High		01-Sep-10		1	
18-May-10	3	779	Facility Services - Renovation	Client Communication	Medium		31-Oct-10		2	
13-May-10	4	899	Environmental Health and Safety Services	Improve Communication of Training Opportunities with Departments	Medium		01-Nov-10		2	
13-May-10	5	899	Environmental Health and Safety Services	Improve Process for Recommendation Documentation & Follow up	High		01-Dec-10		2	
13-May-10	6	899	Environmental Health and Safety Services	Enhance the Risk Assessment Process	Medium		01-Dec-10		2	
17-May-10	7	909	Department of Chemistry	Service Center Administration	Medium		01-Dec-10		2	
18-May-10	8	779	Facility Services - Renovation	Accounts Receivable Reconciliations	High		31-Dec-10		2	
17-May-10	9	904	Information Technology Security Office	Reviewing Commercial-off-the-Shelf Information Technology Hardware and Software Products	Medium		31-Mar-11		2	
17-May-10	10	908	University Scholarships and Financial Aid	Improve Aid Disbursement Monitoring Process	High	Medium	01-Apr-11		2	Completed 2 of the interim dates and audit has revised the priority level to medium
17-May-10	11	904	Information Technology Security Office	Resetting Personal Identifier Passwords	Medium		15-Jun-11		2	

- (1) As of August 4, 2010, management confirmed during follow up discussions with audit that actions are occurring and target date will be met. The Audit department will conduct testing after the due date to confirm that the Management Action Plan is implemented in accordance with the recommendations.
- (2) Target date is beyond current calendar quarter. Management has follow up discussions with the auditees to monitor progress, to assist with actions that may be needed to meet target dates, and to assess the feasibility of the target date.

FINANCE AND AUDIT COMMITTEE

June 30, 2010



**Internal Audit Department Quarterly Report and Annual Status Report
for the Fiscal Year Ended June 30, 2010**

FINANCE AND AUDIT COMMITTEE

June 30, 2010

Section I. ANNUAL UPDATE

Mission Statement – Scope of Work

The mission of the Virginia Tech Internal Audit department is to provide independent, objective assurance and advisory services designed to add value and improve the university's operations. Additionally, Audit helps university departments accomplish their objectives by bringing a systematic, disciplined approach to the identification of opportunities for improvement in the areas of risk management, internal control, efficiency, policy and procedure.

Internal audit coverage encompasses reviews of all university operations and activities to appraise:

- the accuracy, reliability, and timeliness of significant financial, managerial, and operating information and the adequacy of the internal controls employed over the compilation and reporting of such information;
- compliance with policies, procedures, standards, laws, and regulations;
- appropriate identification and management of risk; measures taken to safeguard assets, including tests of existence and ownership;
- the adequacy, propriety, and cost-effectiveness of accounting, financial, and other controls throughout the university, as well as compliance therewith;
- measures taken to foster continuous improvement in control processes;
- whether university resources are being acquired, managed, and protected in an economical, efficient, and effective manner; and
- the achievement of programs, plans, and objectives.

Internal Audit reports functionally to the Finance and Audit Committee of the Board of Visitors and administratively to the university's Chief Financial Officer.

Executive Summary – State of Control Environment

The Internal Audit program continues to be a significant element of the university's overall control structure and a positive influence on the control environment. During fiscal year 2009-10, Internal Audit examined and tested the operations and systems of internal control within a number of university departments to assist management and the Board of Visitors in the discharge of their fiduciary responsibilities.

As a result of the audit, advisory services, and investigation work performed during fiscal year 2009-10, no deficiencies considered to represent material control weaknesses were identified. The scope of audit work was not limited in any way by management or others, nor were there any instances where Internal Audit considered its independence or objectivity to have been impaired. Management and others were found to be conscientious, cognizant, and accepting of their responsibility for internal control, open and cooperative, and supportive of audit efforts. Management has generally accepted audit findings and responded by developing action plans that address the concerns included in report recommendations.

These statements are made with the understanding that no system of internal control provides absolute assurance that controls are functioning effectively. These statements are also not meant to imply that fraud and other irregularities do not exist or, if they do exist, are certain to be detected. Decisions as to the level of risk that is tolerable and should be accepted by the university are the responsibility of management. That said, based on the audit, advisory services, and investigation work performed during fiscal year 2009-10, Internal Audit did not identify any areas where management decided to accept a level of risk that we believed to be unacceptable.

Summary Observations – Audit Program

Audits were performed according to the fiscal year 2009-10 annual audit plan approved by the Finance and Audit Committee of the Board of Visitors on August 31, 2009 and conducted in an objective manner at a level consistent with the resources of the Internal Audit Department. At June 30, 2010, field work was substantially complete or underway for all 24 audit projects on the fiscal year 2009-10 audit plan. Additionally, the one project carried over from the prior fiscal year was completed. During the year, one audit was canceled (Investments and Debt Management) and two planned audits (Secure Enterprise Technology Initiatives and Vice President and Dean for Undergraduate Education) were postponed to the fiscal year 2010-11 audit plan.

Although field work was substantially complete or underway, the reports for two risk based audits (Emergency Preparedness and Construction Project Management Process) were not issued before the cutoff for submission of Board of Visitors meeting materials. These reports will be discussed in detail at the November 2010 Finance and Audit Committee meeting.

For fiscal year 2009-10, Internal Audit completed 92 percent of its audit plan as depicted in Exhibit 1. The relatively high completion rate resulted from a fully staffed office placing a high priority on completing the audit plan.

Exhibit 1
FY 2009-10 Completion of Audit Plan

Audits	
Total # of Audits Planned	26
Total # of Supplemental & Unplanned Carry forward	1
Total # of Planned Audits Canceled and/or Deferred	3
Total Audits in Plan as Amended	24
Total Audits Completed	22
Audits - Percentage Complete	92%
Note: Includes Compliance Reviews	

Exhibit 2 displays the distribution of direct audit hours by category. The indirect hours for administration, computer/network support, training, and compensated absence hours are not included in the chart below.

Exhibit 2
FY 2009-10 Distribution of Direct Audit Hours
(Excludes Indirect Hours for Administration, Training, Leave, etc.)

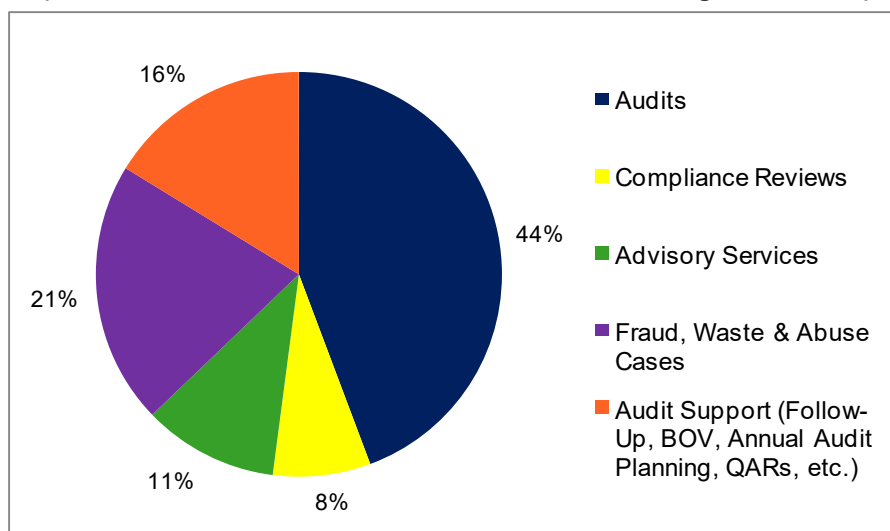


Exhibit 3 displays the differences in the allocation of hours spent during fiscal year 2008-09 and fiscal year 2009-10. During fiscal year 2009-10, less time was spent on risk-based audits due to more time being devoted to advisory services and fraud investigations. Advisory Services were more broadly communicated to campus and a large project on diversity expenditures was performed at the request of senior management. Several investigative cases alleged significant complaints within the same department requiring more time than usual. There was a slight increase in audit support due to implementation of a new electronic audit management system. Time spent

performing administrative tasks decreased due to additional workloads in other categories such as advisory services and investigations.

Exhibit 3
FY 2008-09 vs. FY 2009-10 Hours

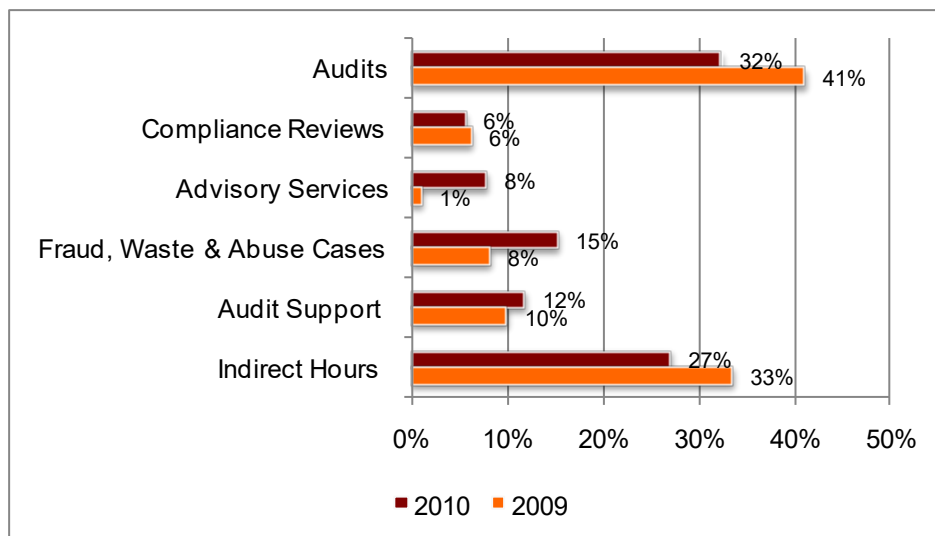


Exhibit 4 illustrates the difference between planned and actual hours during fiscal year 2009-10. Since additional effort was spent on advisory services and fraud investigations, Internal Audit spent less than the planned effort on audit support, which included hours to improve audit procedures, such as developing a portal with standardized queries, creating a continuous monitoring program, and enhancing the risk assessment process to include fraud and information technology risks.

Exhibit 4
FY 2009-10 Planned vs. Actual Hours

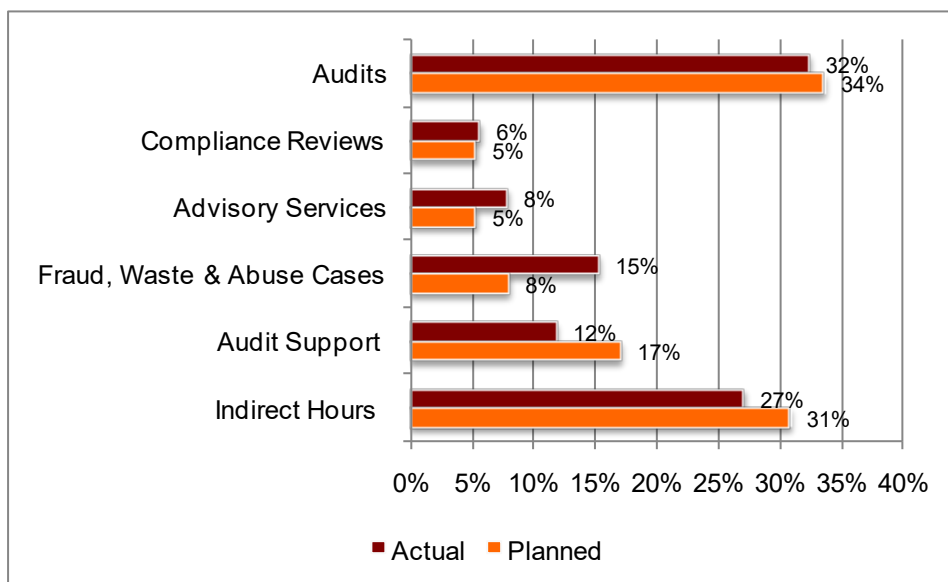


Exhibit 5 below displays the status of the fiscal year 2009-10 audit plan. Twenty-two audit projects on the fiscal year 2009-10 audit plan have been completed and the remaining two (Emergency Preparedness and Construction Project Management Process) are substantially completed.

Exhibit 5
FY 2009-10 Audit Plan Status

Audit Project	Risk Ranking	Projected BOV Mtg	Report Issue Date
Office of Sponsored Programs - Pre-Award	High	3/22/2010	3/1/2010
Virginia Bioinformatics Institute	High	3/22/2010	2/17/2010
Learning Technologies	Medium	3/22/2010	2/22/2010
Macromolecules and Interfaces Institute	Medium	3/22/2010	2/17/2010
Renovations (from 2009 Audit Plan)	High	6/7/2010	5/18/2010
Chemistry Department	High	6/7/2010	5/17/2010
Information Technology Security Office	High	6/7/2010	5/18/2010
Scholarships and Financial Aid	High	6/7/2010	5/17/2010
Dining Services	Medium	6/7/2010	5/14/2010
Environmental Health and Safety Services	Medium	6/7/2010	5/13/2010
Investments and Debt Management	Medium	6/7/2010	CANCELED
Athletics Department – Operations	High	8/30/2010	8/4/2010
Cooperative Extension	High	8/30/2010	8/3/2010
Departmental Scholarships/Foundation	High	8/30/2010	8/11/2010
Electronic Sensitive Data	High	8/30/2010	8/3/2010
Systems Support and E-Discovery	High	8/30/2010	7/16/2010
Leave Accounting	Medium	8/30/2010	8/3/2010
Secure Enterprise Technology Initiatives	Medium	8/30/2010	POSTPONED
Surplus Property Compliance	Medium	8/30/2010	8/5/2010
University Unions and Student Activities	Medium	8/30/2010	8/3/2010
Construction Project Management Process	High	11/8/2010	
Emergency Preparedness – Action Plans	Medium	11/8/2010	
Compliance Review			
College of Business		3/22/2010	2/25/2010
Vice President for Alumni Relations		3/22/2010	3/1/2010
College of Science		6/7/2010	5/13/2010
Vice President and Dean for Undergraduate Education		8/30/2010	POSTPONED
Vice President for Administrative Services		8/30/2010	8/4/2010

Additionally, Internal Audit responded to management's requests for advisory services and consultative guidance for the following topics: diversity expenditures for fiscal year 2008-09; leave corrections; two security breaches of sensitive data; conflict of interest

process; auxiliary operating model; renovation accounting review to determine processes allowing unidentified deficit to accumulate; personal digital identities; and storage of electronic documents with sensitive information.

Management Corrective Actions (MCAs)

Internal Audit conducts follow-up on management's implementation of agreed upon improvements for dozens of previously issued audit recommendations. Each audit recommendation and its associated MCA is given a rating of high, medium or low risk by the auditors and management. This judgment is made in a local context, and items identified as high do not necessarily convey material deficiencies or risks beyond the operating environment in which found. A primary objective of this classification is to drive a greater sense of urgency in completing the corrective action and completion of audit follow-up. Under the new audit report format, the Finance and Audit Committee receives the higher priority recommendations and associated MCAs. However, Internal Audit and management closely monitor all outstanding recommendations to ensure they are adequately addressed by the responsible parties.

Of the 71 MCAs generated during audits issued in fiscal year 2009-10, Internal Audit categorized 22 as high risk (31%). High risk MCAs would include those that are systemic or have a broad impact; have contributed to a significant investigation finding; are reportable conditions under professional literature; create health or safety concerns; involve senior officials; create exposures to fines, penalties or refunds; or are otherwise judged as significant control issues. Audits for fiscal year 2009-10 resulted in recommendations with ratings of High, Medium, or Low and MCAs as follows:

Exhibit 6 Inventory of MCAs

Beginning # of MCAs	13
MCAs added	71
MCAs closed	<u>26</u>
Current open inventory of MCAs	58

Note: The open inventory above includes 19 open MCAs from the reports presented to the Finance and Audit Committee at this August meeting. Additionally, 18 of the open MCAs were lower risk recommendations that were reported directly to management and excluded from reports shared with the Finance and Audit Committee. The remaining 21 open MCAs are being closely monitored by Internal Audit, have been outstanding an average of 100 days, and are on track for completion.

Recurring Audit Issues

The same or similar issues noted below were identified in multiple audit reports issued in fiscal year 2009-10. The data in Exhibit 7 will be shared with managers in the appropriate administrative departments so that they can establish education and/or monitoring programs that will reduce the recurrence of these issues in future years.

Exhibit 7
Recurring Audit Recommendations

Audit Recommendation	Occurrences	Audits
Update/Create Internal Procedure Documents	7	Dining Electronic Sensitive Data Leave Accounting Office of Sponsored Programs Renovation Surplus Property University Scholarships and Financial Aid (2)
Training	3	Chemistry Environmental Health and Safety Services Gramm-Leach-Bliley (Electronic Sensitive Data)
Health and Safety - Emergency Action Plans	3	Chemistry College of Business College of Science
Funds Handling	2	Dining Cooperative Extension
Journal Entry Documentation	2	Chemistry Renovation Services
Electronic Time Keeping	2	Dining University Unions and Student Activities

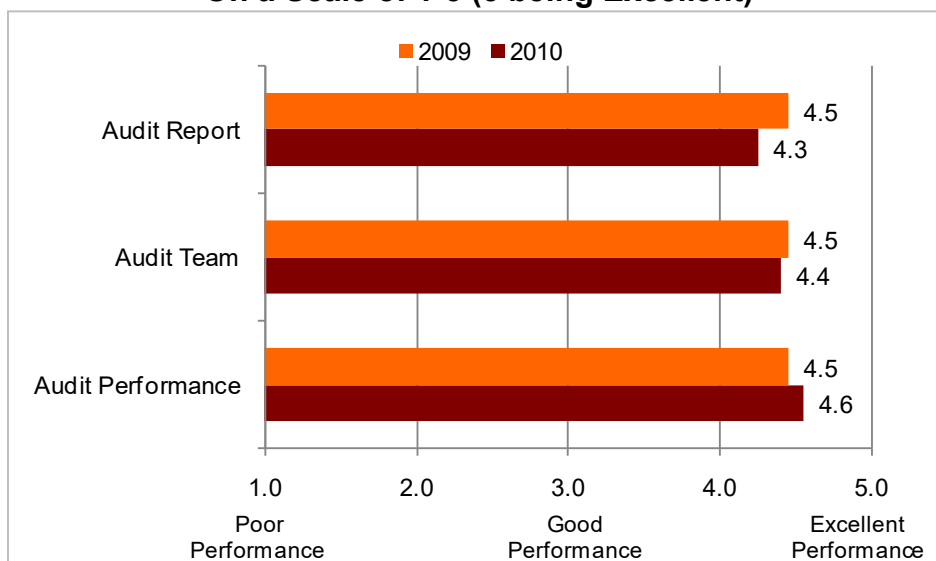
Results of Surveys for Evaluating Internal Audit Services

Each audit and compliance review client department head is e-mailed a link to an online survey requesting their assistance in evaluating the quality of audit services provided by Internal Audit. Feedback from the surveys is used to enhance the overall quality of university audits. The survey responses are grouped into three categories focused on the following areas:

<u>Audit Team</u>	Demonstrated technical proficiency, approached audit with objective, professional, positive manner, and conclusions and opinions were logical;
<u>Audit Report</u>	Written clearly and contained adequate explanations for the observations, and recommendations improved or added value to the department's operation;
<u>Audit Performance</u>	Discussed the preliminary audit objectives, scope and timing of the audit, management concerns and suggestions were solicited and considered in the audit, and disruption of daily activities was minimized as much as possible during the audit.

Overall customer ratings were very favorable as results fell between Excellent and Very Good. Attaining a cumulative average score of 4.4 on a 5-point scale exceeded Internal Audit's goal of a 4.0 rating on survey feedback.

Exhibit 8
Results of Surveys for Evaluating Internal Audit Services
On a Scale of 1-5 (5 being Excellent)



Of the twelve written comments provided by clients, seven comments were appreciative of the audit process and the professionalism and open-mindedness of the audit team, while two comments shared concerns regarding the timing of the audit due to year-end and departmental restructuring, two comments recommended improved communication during the audit process, and one comment expressed the opinion that the audit could have focused on more substantial programmatic areas. Internal Audit always seeks management's input on the timing of the audit and tries to perform the audit during their preferred timeframe, when feasible. The importance of continuous communication on the audit status with management will be reemphasized and weekly status meetings have been implemented with client management to keep them informed.

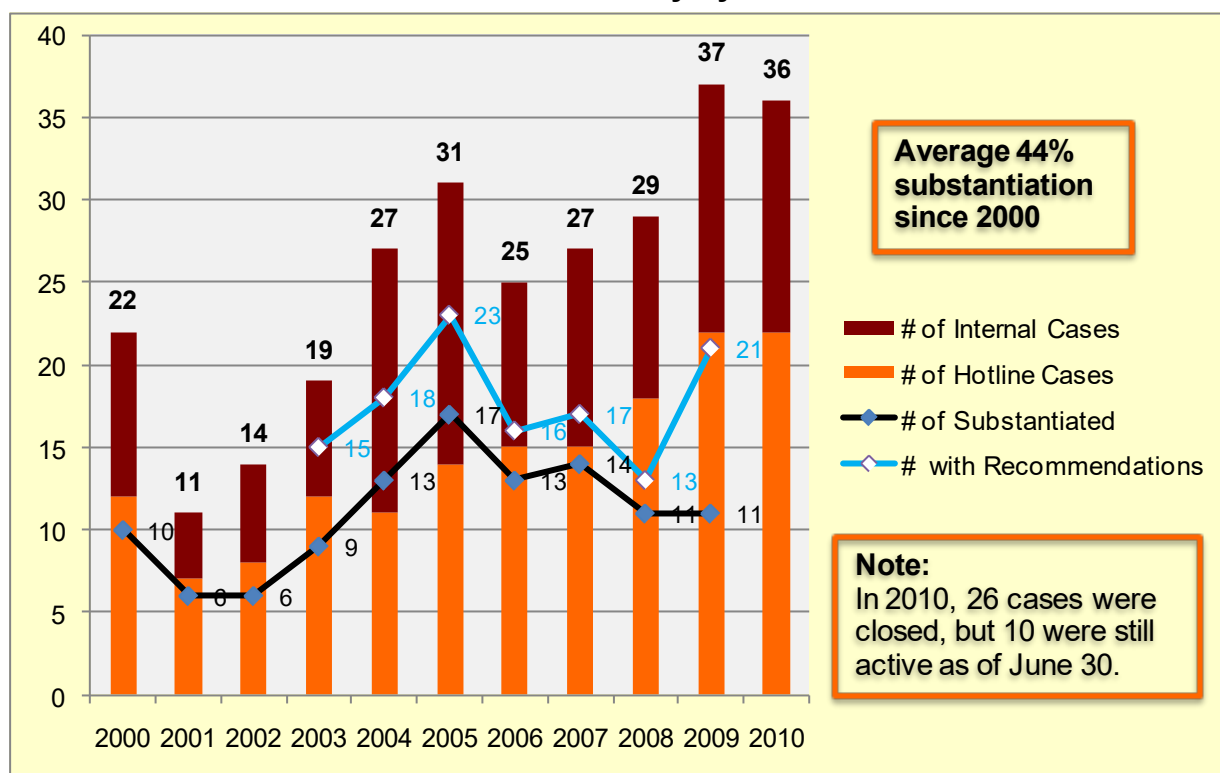
Fraud Waste & Abuse (FWA)

Internal Audit continued to conduct reviews of all Governor's Hotline and internal reports of alleged fraud, waste, and abuse during fiscal year 2009-10. Internal Audit received 36 cases during the year with 26 cases closed as of June 30, 2010. For the 26 cases completed, three of 14 (21%) Hotline cases were substantiated and five of 12 (42%) internally reported cases were substantiated. While approximately 64 percent of internally reported FWA allegations have historically been substantiated, only 29 percent of Hotline cases have been substantiated.

The number of cases reported to the Hotline or directly to Internal Audit has been relatively stable for the last several years after rising from a low of 11 cases reviewed in fiscal year 2000-01. However, there was an increase in cases during fiscal year 2008-09 and 2009-10 which is normal during difficult economic times.

Exhibit 9 displays the number of fraud, waste and abuse reviews performed for Hotline and internal complaints for fiscal years 1999-00 through 2009-10, the number of substantiated cases, and the number of cases with recommendations for management.

Exhibit 9
Fraud, Waste, and Abuse
Case Volume Summary by Fiscal Year



Since fiscal year 1999-00, over 70 percent of the allegations investigated by Internal Audit fall within five general categories: leave or time abuse, improper use of university resources, theft or embezzlement, abuse of authority, or conflict of interest. There has been a gradual increase in allegations regarding leave or time abuse and improper use of university resources.

Staffing / Resources

Internal Audit entered fiscal year 2009-10 staffed with a Director, an Associate Director, eight auditors (two of whom were information technology (IT) specialists), a graduate assistant, a part-time wage Senior Fraud Specialist and a part-time wage administrative assistant. At the end of the first quarter, the part-time administrative assistant was replaced with a full-time administrative coordinator. During the year, a temporary Senior Auditor was hired to help complete the audit plan so other staff could focus on increased investigative and advisory projects. A graduate assistant and auditor position were held vacant due to previous allocation of funds. At the end of the fiscal year, the Associate Director and one IT auditor retired. Internal Audit is in the process of reevaluating its organizational structure to obtain optimal effectiveness and identify hiring needs.

Internal Audit staff has a combined 200 years of professional experience in accounting, auditing, and information technology with a combined 75 years of service to Virginia Tech. Exhibit 10 shows the certifications and advanced degrees held by Internal Audit staff.

Exhibit 10 Certification and Advanced Degrees held by Internal Audit

Certification and Advanced Degrees

Professional Certifications

- 6 Certified Public Accountants (CPA)
- 3 Certified Fraud Examiners (CFE)
- 1 Certified Information Systems Auditor (CISA)
- 1 Oracle Database Administrator (DBA)
- 1 Certified Financial Services Auditor (CFSA)
- 1 Chartered Certified Accountant (CCA)

Advanced Degrees

- 3 Master of Business Administration (MBA)
- 1 Masters of Accounting (MAcc)
- 1 Master of Computer Science (MCS)

To further develop the audit staff's professional skills, Exhibit 11 illustrates the types of continuing professional education (CPEs) that staff participated in during fiscal year 2009-10.

Exhibit 11
Fiscal Year 2009-10 Professional Development

Type of Training	Number of CPEs
Specialized Applications	448
Higher Education	265
Fraud	127
Communication	48
Financial Aid	48
Information Technology	39
Construction	26
Soft Skills	7
Auditing	4

Exhibit 12 illustrates the allocation of effort by position. The higher administrative percentage for the Director and Associate Director are due to time spent managing the office, personnel, constituent relations, and so forth. The higher administrative percentage for the IT Auditor is due to maintaining the departmental IT infrastructure and providing desktop support. A relatively high percentage of time was spent by IT and operational audit staff in audit support due to the implementation of a new electronic audit management system. The Senior Fraud Specialist is an employee without benefits hired specifically to focus on investigative matters.

Exhibit 12
Allocation of Effort by Position

	Number of Audit Professionals	Direct Audit	Audit Support	Administrative, Training, Computer/Network Support	Compensated Absences
Director	1	39%	18%	35%	8%
Associate Director	1	43%	5%	32%	21%
IT Audit Manager	1	55%	13%	12%	20%
IT Auditor	1	44%	17%	26%	13%
Operational Audit Staff	8	62%	12%	13%	13%
Fraud Specialist	1	90%	4%	6%	0%
Blended Average	13	57%	12%	18%	13%

Exhibit 13 compares Internal Audit's expenditures from fiscal year 2008-09 with expenditures for fiscal year 2009-10. The expenditures for salaries and benefits slightly increased due to hiring a full-time audit coordinator and a temporary audit contract employee. Equipment expenses in both fiscal years were one-time funds provided by the Vice President of Finance to improve the department's technology and provide ergonomic support for staff. The personnel expenses in fiscal year 2008-09 were for

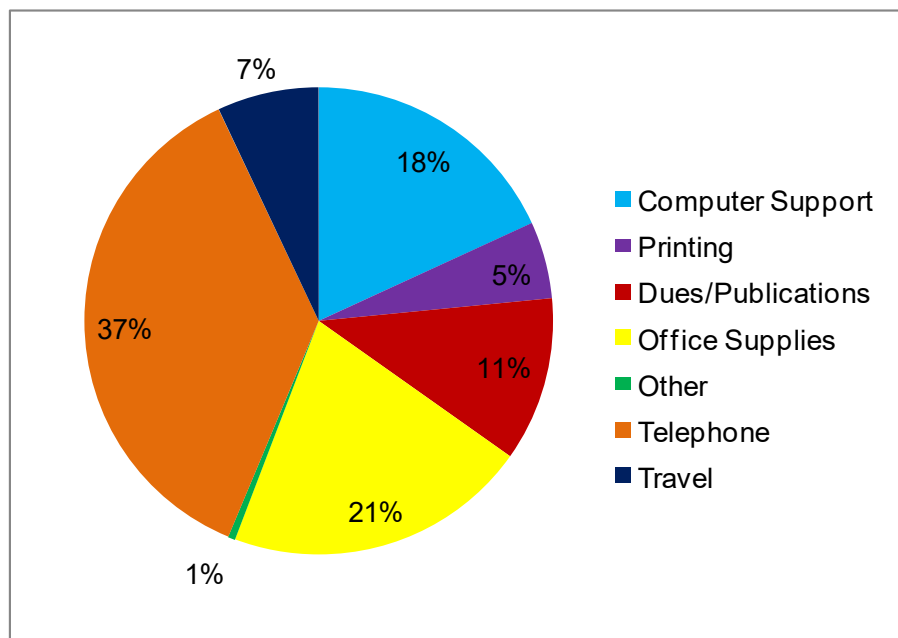
the director position recruitment and relocation expenses. In fiscal year 2008-09, Internal Audit purchased software for a new electronic audit management system for \$46,000. The remaining expenses were monthly expenses required to maintain the former workpaper system. The audit software expense in fiscal year 2009-10 was the annual maintenance fee for the new system. Operating expenses remained approximately the same.

Exhibit 13
Analysis of Expenditures

	FY 2008-09	FY 2009-10
Salaries and Benefits	\$ 942,538	\$ 972,450
Equipment	25,857	14,444
Operating Expenses	17,005	16,944
Recruitment and Relocation	25,140	199
Training	26,587	26,710
Audit Software	54,562	9,050
Total	\$ 1,091,689	\$ 1,039,797

Exhibit 14 shows an analysis of operating expenses. Over 80 percent of operating expenses resulted from basic costs to support the department including computer support, printing, office supplies, and telephone.

Exhibit 14
Analysis of Operating Expenses



Section II. QUARTERLY UPDATE

Continuing Professional Education:

During the fourth quarter, Internal Audit coordinated, planned, and hosted the College and University Auditors of Virginia (CUAV) Conference in May at The Inn at Virginia Tech. This conference provided low cost training to internal auditors at Virginia's colleges and universities. Approximately 70 auditors attended a wide variety of training focused on current issues related to higher education. Audit enlisted a number of interesting and talented speakers from Virginia Tech, peer universities, the Virginia Auditor of Public Accounts, and a local House delegate.





Department personnel were able to participate in several quality training events during the past three months, including the following:

- All audit staff attended a two-and-a-half day conference presented by the College and University Auditors of Virginia.
- Two Certified Fraud Examiners attended the two-day *2010 Williamsburg Fraud Conference*.
- Ten staff members attended a one-day class on *Microsoft One Note* presented by New River Community College.
- Four auditors attended a one-day seminar *Effective Communication for Leaders* sponsored by Continuing Professional Education for Accountants, Analysts, and Audits at Virginia Tech. CPEAAA, developed by the Vice President for Finance's area, provides quality on-campus, cost-effective training.
- One audit manager attended a two-day class on *Business Writing Solutions: Report Writing* presented by the Commonwealth of Virginia Department of Accounts.
- One auditor attended a four-hour credit card fraud seminar presented by Bank of America.
- One auditor attended a two-day seminar on *Effective Auditing of Construction Activity* presented by Courtenay Thompson and Associates.
- The director attended a one-day seminar on *Managing Multiple Priorities, Projects and Deadlines* presented by Fred Pryor Seminars.

Each staff member is on target to complete the annual 40 hours of continuing education requirements.






Compliance Review Activities:









Audit completed the fourth compliance review remaining on the fiscal year 2009-10 audit plan. The objective of our compliance reviews is to contribute to the improvement of risk management and the control systems within selected senior management areas by evaluating compliance with university policies and procedures.

Scorecard Legend	
	Effective
	Improvements are Recommended
	Significant Improvements are Needed
	Unreliable

VP for Administrative Services Compliance Scorecard

The following is a scorecard summarizing the activities reviewed. The scorecard ratings are assessed based on a judgmental determination of the effectiveness of internal controls and compliance with policies for each specific activity tested. For each functional area that received below an effective rating, a detailed presentation of the issues noted along with any recommendations can be found beginning in the Compliance Observations and Recommendations section.

Scorecard		
Functional Area	Expected Condition (Effective Rating)	Rating
Fiscal Responsibility	Monthly reconciliation reports are adequately documented, reviewed timely, and properly approved.	
Employee Compensation and Leave Reporting:		
Wage Payroll	Hours worked by employees are appropriately documented and approved, entered correctly, and reconciliation reports are reviewed in a timely manner and appropriately maintained.	
Banner HRIS Access	Adequate separation of duties exists between the HR data input, approval, and reconciliation processes.	
Overtime Compensation	Employees receive prior approval to earn overtime compensation and no patterns of abuse are observed.	
Leave Reporting	Employee leave reports are submitted timely, adequately documented, and properly approved.	

Scorecard		
Functional Area	Expected Condition (Effective Rating)	Rating
P14 Appointments	P14 appointments are adequately documented and properly approved.	
Expenditures	Expenditures are necessary, reasonable, and directly related to the goals and mission of the university. Cardholder purchases are adequately documented, reconciled timely, and properly approved.	
Fixed Assets Management	Equipment coordinators are properly appointed, equipment custodians are up-to-date in Banner, and home use asset documentation is maintained.	
Funds Handling:		
Cash Deposits	Cash deposits are made timely, and appropriate documentation is on file to support the deposit amount.	
University Key Control	Effective record-keeping systems are in place, periodic inventories of keys are conducted, and unissued keys are properly safeguarded.	
Information Technology	Security patches and anti-virus software are automatically updated, firewalls are enabled, strong passwords are enforced, and sensitive digital information is adequately safeguarded.	
Health and Safety	Emergency Action Plans are properly documented, up-to-date, and distributed to employees within the department or organization.	
State Vehicle Management	Appropriate documentation is maintained on usage and service of state vehicles.	

Internal Audit – Audit Plan for Fiscal Year 2010-11

FINANCE AND AUDIT COMMITTEE

August 1, 2010

Proposed Audit Plan

Internal Audit presents the fiscal year 2010-11 audit plan to the Finance and Audit Committee for approval. As previously discussed with the Finance and Audit Committee, the postponed audits (Secure Enterprise Technology Initiatives and Vice President and Dean for Undergraduate Education compliance review) that were originally planned to begin in fiscal year 2009-10 have been added to the fiscal year 2010-11 plan. Internal Audit is not necessarily expecting to be able to fully complete its ambitious plan for the year, but continually strives for productivity gains.

Internal Audit management conducted its annual risk assessment to identify the entities that should receive audit attention in fiscal year 2010-11. Senior management had the opportunity to provide input on areas for consideration in the preparation of the audit plan. Additionally, a five-year core audit plan was developed to ensure Internal Audit provides adequate coverage related to the University's critical areas. See the Proposed Five Year Core Audit Plan on Schedule 4. As reflected on the Core Audit Plan, Internal Audit plans include entities with high external compliance risks and complex operations annually to audit a different component each year on a multi-year cycle. These entities are Scholarships and Financial Aid, Office of Sponsored Programs, and Intercollegiate Athletics.

Given existing resources, an estimated 11,730 direct hours will be devoted to audits, planning and reviews. Specifically, 6,180 hours can be applied to risk-based audits, 1,200 hours to compliance reviews, and 1,200 hours to advisory services in fiscal year 2010-11 (Schedule 1). Based on the risk assessment and feedback from management, the proposed audit plan (Schedule 2) includes a balance of high, medium and low risk entities along with advisory services and compliance reviews (Schedule 3). Internal Audit's goal is to complete 85 percent of the audit plan. The proposed audit plan may be modified based on the external audit environment or changes in regulations, management or resources.

RECOMMENDATION:

That the fiscal year 2010-11 proposed audit plan be accepted by the Finance and Audit Committee.

AUDIT PERSONNEL AVAILABLE HOURS FOR FISCAL YEAR 2010-11

Sources of Effort Available:	Number of Employees	Annual Hours	Total Hours	Percentage Of Effort
Audit Staff	7	2,080	14,560	87.19%
Wage Auditor	1	1,500	1,500	8.98%
Graduate Assistant	1	640	640	3.83%
Total Available	9		16,700	100.00%

Planned Application of Effort:

Performing Scheduled Audits	6,180	37.01%
Compliance Reviews	1,200	7.19%
Advisory Services / Management Requests	1,200	7.19%
Reviews of Alleged Fraud, Waste, and Abuse	2,000	11.98%
Annual Audit Activities (Follow-up, Inventory)	750	4.49%
Continuous Monitoring	300	1.80%
Annual Audit Planning	100	0.60%
Total Direct Hours - Audit, Planning and Review	11,730	70.24%
Vacations, Holidays, and Sick Leave	2,184	13.08%
Training and Professional Development	630	3.77%
Administrative Tasks, Network Maintenance	2,156	12.91%
Total Indirect Hours	4,970	29.76%
Grand Total Hours of Effort	16,700	100.00%

PROPOSED AUDIT PLAN FOR FISCAL YEAR 2010-11
RISK BASED AUDITS

ENTITIES	LAST AUDIT	RISK	HOURS
Admissions	2003	High	300
Animal Care and Resources	2006	High	275
Athletics NCAA Compliance *	2007	High	300
Biological Sciences	2002	High	325
Controller's Office – Fixed Assets	2004	High	300
IT - Electronic Timekeeping Systems	N/A	High	300
Office of Sponsored Programs*	2007	High	300
Scholarships and Financial Aid *	2007	High	300
School of Architecture + Design	2004	High	300
Veterinary Medicine Teaching Hospital	2006	High	400
Budget and Financial Planning	2004	Medium	300
Distance Learning and Summer Sessions	N/A	Medium	200
Forest Resources and Environmental Conservation	2005	Medium	250
Human Resources - Benefits	2004	Medium	300
Institutional Research and Effectiveness	N/A	Medium	225
IT - Facilities HokieServ System	N/A	Medium	325
Northern Virginia Center	2002	Medium	250
Recreational Sports	2003	Medium	300
Secure Enterprise Technology Initiatives	N/A	Medium	250
Tidewater and Hampton Roads ARECs	N/A	Medium	350
Center for Coal and Energy Research	N/A	Low	180
Corps of Cadets	2006	Low	150
Total Hours Needed			<u><u>6,180</u></u>
Total Audits Planned			22

* Entity receives an annual audit on different components of their operation.

ADVISORY SERVICES REVIEWS

Air Transportation Services	150
Institute for Advanced Learning & Research	300
Unallocated - Management Request	750
Total Hours Needed	<u><u>1,200</u></u>

Presentation Date: August 30, 2010

**PROPOSED FIVE-YEAR COMPLIANCE REVIEW PLAN
FOR FISCAL YEAR 2010-11 THROUGH FISCAL YEAR 2014-15**

Audit Entity (Senior Management Areas)	Last Review	Hours of Effort				
		FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
Athletics	2007		250			
College of Agriculture and Life Sciences	2009					250
College of Architecture and Urban Studies	2007			200		
College of Business	2010					200
College of Engineering	2008			300		
College of Liberal Arts and Human Sciences	2008				200	
College of Natural Resources	2009				200	
College of Science	2010					250
College of Veterinary Medicine	2008			250		
Office of the President	2004	150				
Office of the Provost	2006		200			
University Libraries	2006	250				
University Treasurer	2006		200			
Vice President and Dean for Graduate School	2008			200		
Vice President and Dean for Undergraduate Education	*	200				
Vice President for National Capital Region	*	150				
Vice President for Administrative Services	2010					300
Vice President for Alumni Relations	2010					150
Vice President for Development and University Relations	2006	250				
Vice President for Diversity and Inclusion	2009				150	
Vice President for Finance	2007		200			
Vice President for Information Technology	2009				200	
Vice President for Outreach and International Affairs	2006	200				
Vice President for Research	2007		200			
Vice President for Student Affairs	2009				250	
Total Budgeted Hours		1200	1050	950	1000	1150
Number of Reviews		6	5	4	5	5

* New Senior Management Units as of 2008

NOTE: Compliance reviews include all departments reporting to the respective senior management area.

Presentation Date: August 30, 2010

**PROPOSED FIVE-YEAR CORE AUDIT PLAN
FOR FISCAL YEAR 2010-11 THROUGH FISCAL YEAR 2014-15**

Area	2011	2012	2013	2014	2015
Enrollment Services	Financial Aid – Cash Mgt, Fin Reporting, Disb, Resource Mgt	Financial Aid – Quality Assurance	Financial Aid – Grants, Scholarships, Workstudy & Loans	Financial Aid – Inst. & Stud. Eligibility, Title IV Return, Overaward	Financial Aid – Cash Mgt, Fin Reporting, Disb, Resource Mgt
	Admissions	Registrar	Graduate Education		
Research	Sponsored Programs – Compliance/Close-Out	Sponsored Programs – A/R, Cash Mgt	Sponsored Programs – Proposals	Sponsored Programs – Compliance/Close-Out	Sponsored Programs – A/R, Cash Mgt
	Animal Care and Resources	VTCRI	Fralin Biotechnology Center	VTTI	ICTAS
	Center for Coal and Energy Research	Effort Reporting	Export Controls	Research Compliance/ IRB	Center for Human/ Computer Interaction
Human Resources/Payroll	Benefits	Payroll Transactions	Compensation, Classification, Hiring and Termination	Retirement	Leave Accounting
Auxiliary Enterprises	Recreational Sports	Career Services	Hokie Passport	Residential Programs	Health and Counseling Centers
	NCAA – Financial Aid	NCAA – Eligibility	NCAA – Recruiting	Athletics – Operations	NCAA – Financial Aid
Facilities Management	Facilities HokieServ System	Construction Contracts	Building and Grounds	Utilities	EHSS
		Parking and Transportation	Fleet Services	Printing Services	Records Management
Procurement & Payment / Financial	Controller's Office – Fixed Assets	Controller's Office – Financial/ Cost Acctg	Purchasing	Bursar's – Receivables & Loans	Controller's Office – General Accounting
		Bursar's – Cash Receipts & Collections	Controller's Office – Risk Management	Accounts Payable	
Academic Units	Biological Sciences	School of Education	Mathematics	Civil and Environmental Engineering	Electrical and Computer Engineering
	School of Architecture + Design	Mechanical Engineering	College of Business (Acctg; Mgt; HTM)	English	Computer Science
	Veterinary Medicine Teaching Hospital	Human Nutrition, Foods and Exercise	Fisheries and Wildlife Science	Crop and Soil Environmental Sciences	School of Public and International Affairs
	Forest Resources and Environmental Conservation	Equine Medical Center			Biomedical Sciences and Pathobiology
Off-Campus Locations (Virginia & International)	Tidewater and Hampton Rds ARECs	Roanoke Center	Virginia Cooperative Extension	Alson H. Smith, Jr. and Middleburg ARECs	Reynolds Homestead
	Northern Virginia Center	International Centers and Programs	Southern Piedmont AREC	Southwest Virginia Center	Institute for Advance Learning & Research
Information Technology	Electronic Timekeeping Systems	Central Back-Up Process	Information Technology Acq. and Software Licensing	IT - Enterprise Systems	IT - Security Office

PRELIMINARY SCOPE DESCRIPTIONS OF FISCAL YEAR 2010-11 AUDIT PLAN

The description of the preliminary audit scope for projects on the fiscal year 2010-11 audit plan is detailed below. However, the preliminary scope is subject to change as the audit objectives are based on identified business goals and objectives, potential risks, and processes designed to mitigate those risks during the audit planning process. The annual expenditures and revenues referenced below reflect fiscal year 2008-09 data.

Periodic Reviews of Colleges, Schools, and Departments: The objective of these audits is to assure sound business practices are in place and processes are in compliance with University policies. These reviews will focus on the unit's business objectives and will evaluate controls and business risks. Tests of records may include core business functions such as contract and grant administration, service centers, health and safety, facility security, conflict of interest, and systems and network security as applicable, to determine if processes effectively manage risks, assets are safeguarded, and policies complied with.

Biological Sciences – Biological Sciences within the College of Science has expenditures of \$12.5 million, including \$4.6 million of sponsored research. The last audit of this department was in 2002.

School of Architecture + Design – This school within the College of Architecture and Urban Studies has expenditures of \$8.4 million, including \$200 thousand of sponsored research. The last audit of this department was in 2004.

Veterinary Medicine Teaching Hospital – The Veterinary Medicine Teaching Hospital and Clinical Services have expenditures of \$9.3 million and \$6 million of revenue. The last audit of this department was in 2006.

Forest Resources and Environmental Conservation – This department within the College of Natural Resources has expenditures of \$6.5 million, including \$2.6 million of sponsored research. The last audit of the college was in 2005.

Admissions: The Office of Undergraduate Admissions strives to attract, recruit, and enroll a highly qualified, talented, and diverse student body in a manner that supports the university's well-being. They are responsible for processing over 20,000 applications each year, extend over 14,000 offers and admit over 5,000 undergraduate students each fall. The audit will review and evaluate systems and procedures in place related to applications, funds handling of fees, and other processes related to their business objectives. The last audit of this department was in 2003.

Animal Care and Resources: The Office of Research Compliance provides professional administrative and support staff to oversee university community compliance with applicable laws, regulations, and guidelines associated with research and teaching at Virginia Tech. Compliance assurance in all of the affected areas is required to ensure continued permission by the government to conduct research at our institution. This audit will include a review of the Institutional Animal Care and Use

PRELIMINARY SCOPE DESCRIPTIONS OF FISCAL YEAR 2010-11 AUDIT PLAN

Committee (ACUC) protocol review and approval process; board membership and meetings; documentation of ACUC activities and procedures; training for researchers; and physical safeguards and security at the Central Vivarium. The last audit of this activity was in 2006.

Athletics NCAA Compliance: Audit conducts a complete audit of Athletics over a four-year period. This audit will include reviews of financial aid, playing and practice seasons, and summer camps. The last audit of these NCAA activities was in 2007.

Controller's Office – Fixed Assets: The Fixed Assets unit of the Controller's Office is responsible for maintaining and managing the University's official fixed asset system which includes land, buildings, improvements, fixed and moveable equipment. This audit will include a review of the processes in place ensuring the university's assets are properly acquired, safeguarded, controlled, recorded and disposed in accordance with applicable policies and regulations. The last audit of this unit was in 2004.

Electronic Timekeeping Systems: This audit will review and evaluate the electronic timekeeping systems across campus that interface with Banner and initiate payroll transactions. The review will include an evaluation of the manner in which the systems were integrated with the overall business processes of the Payroll Office. The review will also include assessment of the architecture, hardware/software configuration, and procedures pertinent to the system's security and reliability. No audit has been conducted of this activity.

Office of Sponsored Programs: The Office of Sponsored Programs has the responsibility of ensuring compliance with all policies and procedures (university, state, federal, and individual sponsor) as they relate to externally funded grants and contracts. The office provides full service throughout the lifecycle of a project, from preliminary budget review to award closeout. A complete audit of the Office of Sponsored Programs occurs over a three-year period. This audit will focus on post award administration. The last audit of this activity was in 2007.

Scholarships and Financial Aid: A complete audit of Scholarships and Financial Aid is performed over a four-year period. This audit will include disbursing of financial aid; cash management including reconciliation, drawdown and cash controls; financial reporting; and resource management. The last audit of this activity was in 2007.

Budget and Financial Planning: The Office of Budget and Financial Planning provides the primary support to University leadership in identifying, obtaining, and allocating the resources needed to achieve the University's mission and the goals and objectives of the University Plan. This audit will include a review of the process used in the development and allocation of the annual budget, monitoring performance against and compliance with the annual budget, financial reporting, position control, utilization and monitoring of central funds, budget related policy issues, and data security. The last audit of this unit was in 2004.

PRELIMINARY SCOPE DESCRIPTIONS OF FISCAL YEAR 2010-11 AUDIT PLAN

Distance Learning and Summer Sessions: The Office of Distance Learning and Summer Sessions is comprised of three departments, the Institute for Distance and Distributed Learning (IDDL), the Office of University Summer Sessions (OUSS), and Distance Learning and Summer Sessions Operations and Administration (O&A). These departments strive to provide leadership, coordination, management, and support to university activities and initiatives in these areas. No audit has been conducted of this unit. This project was a management request.

Human Resources – Benefits: During the general overview, an understanding of the management structure, significant operational processes, compliance requirements, and information systems will be obtained. An evaluation of benefits, deductions and disbursement processing operations including monitoring of compliance, support and training, and separation of duties will be included. This core audit process has not been audited since 2004.

Institutional Research and Effectiveness: The mission of the Office of Institutional Research and Effectiveness is to enhance institutional effectiveness by providing information that supports and strengthens decision making and planning processes for the administration of Virginia Tech. The audit will include a review of the processes utilized to coordinate data collection efforts that support internal and external reporting as well as compliance with governing and accrediting bodies. No audit has been conducted of this unit.

Facilities HokieServ System: Post-Implementation Review. This audit will review and evaluate the newly implemented Facilities HokieServ System including the manner in which the system is integrated with the overall business processes of the campus Purchasing Office and with other campus-wide systems. The review will also include assessment of the architecture, hardware/software configuration, and procedures pertinent to the system's security and reliability.

Northern Virginia Center: The Northern Virginia Center (NVC), an extended campus of the Virginia Tech Graduate School, is located in Falls Church, Virginia. The facility is owned and operated by Virginia Tech, but also shares space with the University of Virginia. The NVC offers a wide variety of graduate and continuing education opportunities specially designed for working professionals. This review will focus on the unit's business objectives and will evaluate controls and business risks. Tests of records may include core business functions such as NVC's administrative and business operations, network and information systems security, safety and security procedures, and various operating functions in the NVC Graduate Records Office. The NVC has expenditures of \$8.4 million, including \$200 thousand of sponsored research. The last audit of this unit was in 2002.

Recreational Sports: The Department of Recreational Sports is a part of the Division of Student Affairs. The department is responsible for enhancing the quality of life for

PRELIMINARY SCOPE DESCRIPTIONS OF FISCAL YEAR 2010-11 AUDIT PLAN

students and faculty/staff by providing excellent recreational and fitness activities. The annual revenue for the department exceeds \$6 million dollars. The last audit of this department was in 2003.

Secure Enterprise Technology Initiatives: Secure Enterprise Technology Initiatives (SETI) was formed to focus on developing secure applications, middleware, and interfaces to support the university's computing and network services. The department works in conjunction with the IT Security Office to enforce auditable security standards that address privacy issues while providing a balance between system usability and system security. No audit has been conducted of this unit.

Tidewater and Hampton Roads ARECs: Agricultural Research and Extension Centers (ARECs) performs research on food and fiber systems, their impact on the environment, and relating to the future needs of Virginia, the nation, and the world. Twelve ARECs are dispersed throughout the state and are geographically separated from the main campus. The expenditures for these ARECs exceed \$4 million, including \$1.2 million of sponsored research. No audit has been conducted of these two ARECs.

Center for Coal and Energy Research: The Virginia Center for Coal and Energy Research was created by an Act of the Virginia General Assembly in 1977 as an interdisciplinary study, research, information and resource facility for the Commonwealth. This unit has offices in the main Virginia Tech campus in Blacksburg, the National Capital Region Office in Alexandria, and the Southwest Virginia Higher Education Center in Abingdon. The expenditures for this department exceed \$2 million, including \$1.8 million of sponsored research. No audit has been conducted of this unit.

Corps of Cadets: The Corps of Cadets is responsible for developing leaders of exemplary integrity and character who are imbued with the concept of selfless service, prepared to serve the Commonwealth and the nation for a lifetime. The Corps of Cadets trains leaders by creating a regimented and disciplined environment that educates and develops the whole person mentally, morally and physically. The annual expenditures for the Corps exceed \$1.6 million dollars. The last audit of the Corps was in 2006.

Compliance Reviews: Internal Audit will continue its program of limited scope reviews of senior management areas. These surveys review major aspects of a department's administrative processes using internal control questionnaires and limited testing that provides broad audit coverage ensuring compliance with University policies on campus.

Review and Acceptance of Internal Audit Reports Issued

FINANCE AND AUDIT COMMITTEE

August 1, 2010

Background

In concurrence with the fiscal year 2009-10 Internal Audit Plan approved by the Finance and Audit Committee at the August 31, 2009 Board of Visitors meeting, the department has completed eight risk-based audits during this reporting period. This report provides a summary of the ratings issued during the period and the rating system definitions. Internal Audit continues to make progress on the annual audit plan.

Ratings issued this period

Athletic Department – Operations	Improvements are Recommended
Cooperative Extension	Improvements are Recommended
Departmental Scholarships	Improvements are Recommended
Electronic Sensitive Data	Improvements are Recommended
Systems Support and E-Discovery	Effective
Leave Accounting	Improvements are Recommended
Surplus Property Compliance	Improvements are Recommended
University Unions and Student Activities	Improvements are Recommended

Summary of Audit Ratings

Internal Audit's rating system has four tiers from which to assess the controls designed by management to reduce exposures to risk in the area being audited. The auditor can use professional judgment in constructing the exact wording of the assessment in order to capture varying degrees of deficiency or significance.

Definitions of each assessment option

Effective – The audit identified opportunities for improvement in the internal control structure, but business risks are adequately controlled in most cases.

Improvements are Recommended – The audit identified occasional or isolated business risks that were not adequately or consistently controlled.

Significant or Immediate Improvements are Needed – The audit identified several control weaknesses that have caused, or are likely to cause, material errors, omissions, or irregularities to go undetected. The weaknesses are of such magnitude that senior management should undertake immediate corrective actions to mitigate the associated business risk and possible damages to the organization.

Not Reliable – The audit identified numerous significant business risks for which management has not designed or consistently applied controls prior to the audit. Persistent and pervasive control weaknesses have caused or could cause significant errors, omissions, or irregularities to go undetected. The weaknesses are of such magnitude that senior management must undertake immediate corrective actions to bring the situation under control and avoid (additional) damages to the organization.

RECOMMENDATION:

That the internal audit reports reviewed above be accepted by the Finance and Audit Committee.

Auditor of Public Accounts Statewide Reviews and Special Reports

FINANCE AND AUDIT COMMITTEE

August 10, 2010

Background

In addition to the annual audits of the University's financial statements and its Intercollegiate Athletics program, the Auditor of Public Accounts (APA) has included Virginia Tech along with other agencies in recent program reviews designed to assess controls on a statewide basis. The APA has shifted its audit approach to include these special reviews as a part of their annual audit plan. Due to the breadth of programs and the dollar volume of activities at Virginia Tech, it seems likely that the University will often be one of the agencies selected for review; this will increase the number of opportunities for the auditors to provide internal control recommendations specific to the institution.

The following report provides an analysis of the APA's statewide audit activities consistent with the University's planned approach to manage and report on these audit activities.

Recent Audit Activity

Since our last report, the APA has issued two statewide audit reports that reference or impact Virginia Tech. In addition, a series of reports have been issued that emphasize improved transparency and absolute financial uniformity for all agencies. The APA reports are summarized below. The prior report to the Finance and Audit Committee on the APA's statewide reviews and special reports was reviewed with the Committee in March 2010.

Review of Commonwealth Internal Audit Functions, March 2010

The APA continued exploration of the need for an inspector general in the Commonwealth with a review of existing audit functions. Its objectives in completing this review included identifying whether the internal audit functions throughout the Commonwealth adhere to generally accepted standards set forth by the Institution of Internal Auditors; identifying issues in the internal audit function that could be improved by increased cooperation between the internal audit functions; and providing a framework for management to use in determining the need, size, and scope of their internal audit function.

The APA surveyed the chief audit executives and inspectors general at 37 entities throughout the Commonwealth and selectively conducted interviews to analyze the relationship between the size of the internal audit function and the size of the entity's

operating budget. The APA also reviewed administrative code requirements and requested documentation to support compliance with professional standards.

The APA reviewed select International Standards for the Professional Practice of Internal Auditing that were considered measurable representations of compliance with professional standards. The review concluded that the 37 internal audit and inspector general functions in the Commonwealth generally comply with the professional standards reviewed. Virginia Tech was noted as complying with each of the standards reviewed.

While not specific to the University, the report included recommendations for implementation of best practices in the Commonwealth. The best practices recommendations included establishment of an audit committee, management's establishment of internal audit expectations, education of boards and agency heads, external quality assurance reviews, and statewide accountability and oversight through the establishment of a coordinating council.

The University has a robust and comprehensive internal audit function that incorporates the best practices recommended in the report. Established in 1979, the duties assigned to internal audit at the University well exceed those typically assigned to the inspector general role. The University continues to support the incorporation of processes and functions that ensure compliance with the professional standards prescribed by the Virginia Administrative Code.

Follow-Up on Deferred Maintenance in the Commonwealth, December 2009

In December 2005, the APA released a report entitled "Review of Deferred Maintenance in the Commonwealth – Final Report." Upon completion of the report, the Department of General Services took ownership of the Commonwealth's Facility Inventory Condition and Assessment System (FICAS). This report discusses how General Services performed with this responsibility as well as system changes and uses by state agencies and institutions.

The APA's main objective in completing the review was to document and analyze the progress the Commonwealth and the Department of General Services has made with FICAS since taking over responsibility in December 2005. The report also examined the Department of Planning and Budget's use of FICAS.

The APA found that the Commonwealth's recorded deferred maintenance increased by \$1.85 billion since the 2005 report. Additionally, agencies and institutions recorded 871 more buildings into FICAS. The review concluded that 40 percent of the agencies and institutions with data currently in FICAS are not using the system as required and 44 percent are not updating data in the system due to budget restraints or lack of interest. Finally, the APA found that General Services and the Department of Planning and Budget (DPB) are working together to make FICAS an integral part of the capital budgeting process.

The APA concluded that it appeared that all higher education institutions are using and updating FICAS.

While not specific to the University, the APA included in its report a recommendation to the State Council of Higher Education for Virginia (SCHEV) to update its guidelines to only accept facility condition information from FICAS. The University has adopted use of FICAS in its submission to the DPB and SCHEV and is unaware of any potential negative impacts from this recommendation.

Additional Reports

The APA has issued a series of special reports with no issues directly affecting the University at this time, but potentially having significant impact on the University in terms of costs and resources it would take to address the strategies recommended. These reports have a central theme of improving transparency of reporting through absolute uniformity in financial processes by implementing new enterprise financial systems and corresponding data standards. These standards may require all state agencies to reprogram and/or modify existing systems. The cost benefit of potential uniform standards has not been demonstrated. In addition to the significant costs, these strategies could negate major portions of both the autonomies and efficiencies gained to date through the Restructured Higher Education Financial and Administrative Operations Act (Restructuring Act).

With several recommendations to standardize systems, data structures, and processes across the Commonwealth, there is the potential issue of reverting to a total centralization of all state systems – all separate systems would be eliminated so that all information technology and financial and administrative systems would be provided centrally by the Commonwealth and administered by the state Comptroller at significant additional cost to the University. This would be the antithesis of all Restructuring efforts reverting to financial processes prevalent in the Commonwealth in the 1980's. While the APA recommended that these data standards be implemented in a participatory process with state agencies, the central state agencies implementing these standards have not given any institutions of higher education an opportunity to provide input to these processes. An overview of the special reports is summarized below.

Progress on Selected Information Technology Projects in the Commonwealth, January 2009 and March 2010

These reports provide updates on the progress of major system projects being implemented by various state agencies throughout the Commonwealth. They include high level summaries showing major milestones for the project, progress towards these milestones, total estimated costs of the project, and actual costs incurred per data available when the report was issued. However, the reports include only the direct costs to the agencies implementing the projects and do not include any cost estimates for any other agencies subsequently required to reprogram, modify, and interface existing systems.

One of the projects may potentially have a substantial impact to the University – the Virginia Enterprise Application Program (VEAP). The project leverages replacement of the Virginia Department of Transportation (VDOT) financial system implementation to replace the Commonwealth's financial system (CARS) and is called the Cardinal Project. A future phase of the Cardinal project includes converting all other executive branch state agencies to the Cardinal financial system, at which time DOA has the opportunity to retire CARS and potentially other redundant financial systems. It is possible that the Commonwealth could decommission other agency financial systems.

Enterprise Data Standards Progress Report, January 2010

The objective of the audit was to provide a status report on the Commonwealth's progress in developing and implementing data standards relative to the financial and administrative business areas outlined in the Appropriation Act.

The report includes recommendations to improve the Commonwealth's progress in developing data standards. Specific recommendations are described in detail within the report and include developing detailed work schedules, prioritizing data standards work, and establishing expectations regarding leadership and authority over data standards. The report discusses these business areas and what the Commonwealth has accomplished relative to the data standards in the areas of vendor tables, receiving information, invoice information, purchasing information including commodity codes, agency identification information, chart of accounts, and state employee identification information. The report also includes justification for data standards and specifies the role of the data stewards.

Each agency that has its own accounting system has customized its vendor data standard. The lack of a common vendor data standard and governance has created challenges for data analysis at the state level due to vendor duplication. A vendor data standard would ensure data integrity and consistency, making it possible for the state to analyze vendor payment information more readily.

In response to APA reports, the Chief Applications Officer (CAO) and the various state agencies have implemented the vendor data standard. Additional opportunities exist to define data standards for other enterprise business areas such as payroll and personnel, which are part of the long-range system replacement plan. The establishment of data standards for these business areas would ensure that agencies implementing or replacing agency individual systems would conform to a standard.

With significant progress on several of the other data standards, they have started the process of mandating the use of such data standards by all state agencies. These mandates have very aggressive dates for implementation.

The University maintains it is exempt from such processes under the Restructuring Act. Through the Restructuring Act, University management sought to avoid any such costs or interfaces with the Commonwealth's current and future accounting systems by

negotiating language which exempted the University from recording financial transactions in the Commonwealth's accounting system (CARS) or any such system which replaces CARS. The implementation of the Cardinal system and the related data standards for all financial processes may create expectations or requirements for the University to reprogram or modify its systems to conform to the data standards and interface to the Cardinal systems despite these negotiated restructuring authorities.

The University made a strategic decision in the late 1990s to implement an enterprise wide systems solution for human resources, general ledger, accounts payable, accounts receivable, and student systems. The integration of this suite of modules and subsequent modifications and expansions position the University as a leader in this area. Mandates from the state to adopt, reprogram, or modify systems could result in both real cost and lost opportunity costs for the University without providing additional benefits.

Of key concern is a possible strategy to allocate costs to all state agencies for funding both the cost of the Cardinal system and the ongoing maintenance and operating costs. By not providing central or direct funding for this initiative, the General Assembly may, in effect, create an unfunded mandate. This strategy was used to previously fund the state procurement system, eVA, where the University receives no ongoing benefit from the system, but is required to pay for the eVA system. Since fiscal year 2005, the University has paid approximately \$3.9 million in eVA transaction fees and incurred additional system costs to manage the data exchanges. Similar to eVA system, the university already has its own general ledger, accounts payable, accounts receivable, and project accounting systems included in the Banner suite of products implemented by the University over 10 years ago. The University would not derive any benefit from the new Cardinal enterprise systems.

Budget Transparency Review, September 2009 and Review of the Budget and Appropriation Processing Control System, January 2009

In these reports the APA acknowledges that the current budgeting and appropriations processes were adequate to accurately reflect the appropriations in CARS, budget adjustments were controlled, and processes were in place to ensure that expenses do not exceed appropriations. The report also highlights that the central state agencies have not yet addressed issues related to transparency for budget adjustments especially for those related to higher education and other programs. The report acknowledges that these transfers are intended to allow separate monitoring and tracking of such funds and the current processes and systems were not designed to provide full transparency.

The impact on the University's financial processes could be significant. Consistent with other public institutions of higher education in Virginia, the University combines state appropriations, tuition and fees, and other Educational and General (E&G) revenues for more efficient management, allocation, and utilization. The budget adjustments for higher education in the state's accounting system reflect this practice. The anticipated

changes required to budget and expend by E&G revenue source type would be significant, requiring considerable management and financial systems change at additional costs to the University.

University Responses to Audit Requests and Audit Comments

The University continues to provide information related to several statewide audit activities and anticipates that additional requests will be received in the future based on various discussions with representatives from the Auditor of Public Accounts. These requests and audit efforts will be coordinated through the offices reporting to the Vice President for Finance and Chief Financial Officer to ensure that the University provides the requested support to the APA, that all recommendations are reviewed, and that University responses are appropriate and timely. Further, as these audit reports are issued, the University will submit an analysis of the report and its impact on Virginia Tech to the Finance and Audit Committee, in a manner similar to this report.

Potential Operating and Capital Budget Initiatives for 2011-12

FINANCE AND AUDIT COMMITTEE

August 10, 2010

State Budget Process

The State established the 2010-12 biennial budgets for its agencies effective July 1, 2010. In preparation for the 2011 General Assembly session and the fiscal year 2011-12 budget, the administration develops budget amendments that the Governor may offer to amend the 2010-12 biennial budget. The Department of Planning and Budget establishes the guidelines that state agencies utilize to submit amendments to the administration for consideration in the Governor's budget. The Governor must submit the Executive Budget to the General Assembly on or before December 20, 2010.

Instructions on the amendment process have not yet been received and are not expected until late August or September. At the state level, considerations impacting this process include the August forecast of state revenues, the status of stimulus funding in Congress including Federal Medical Assistance Percentages (FMAP), the state debt capacity study, and the outcomes of the Commissions reviewing government operations as well as higher education.

Assuming that the process for submission of budget amendments will be similar to recent years' submissions, the University anticipates that the state fiscal environment may once again prohibit the request of additional General Funds for items other than critical needs. However, the state's operating budget development process may consider a range of operating amendments, including the following categories:

- New initiatives,
- Mandates,
- Prior commitments and critical needs,
- Technical adjustments, and
- Cost adjustments.

Further, the 2010 Appropriation Act (§ 4-4.01 g.) provides for consideration of capital requests in odd-numbered years as follows:

1. Supplementing projects which have been bid and determined to have insufficient funding to be placed under contract, and
2. Projects declared by the Governor or the General Assembly to be of an emergency nature, which may avoid an increase in cost or otherwise result in a measurable benefit to the state, and/or which are required for the continued use of existing facilities.

In addition to the two capital categories listed above, the State has traditionally acted on technical adjustments for state funded furnishings, fixtures, and equipment (FF&E) budget line items and requests for new 100 percent nongeneral fund capital projects. The state occasionally considers General Fund support for new capital projects when revenues are sufficient. The appropriation of new state funding for capital is uncertain this year because of the current fiscal environment.

Potential Budget Amendments for Fiscal Year 2011-12

Consistent with this guidance and prior practice, the University has developed a list of potential operating and capital budget amendments. The proposals on this list are consistent with the initiatives approved for submission in the University's 2010-16 Capital Plan request and the 2010-12 biennial budget request, which were submitted to the state in June 2009 and October 2009, respectively. Since the submission for 2011-12 is anticipated to be due sometime in the period of September 15 to October 15, work is already underway to prepare the individual proposals. It is the University's business practice to share these potential budget requests with the board to obtain concurrence with the proposed budget strategies for the Executive Budget adjustments and the General Assembly Session.

Several important statewide issues are traditionally addressed centrally and are not included in Virginia Tech's list of amendments. The issues that are normally coordinated by the State Council of Higher Education for Virginia (SCHEV) and the Department of Planning and Budget (DPB) include the following: faculty and staff salaries, equipment trust fund, maintenance reserve, and student financial assistance.

These proposed initiatives are expected to meet the criteria for submission to the Executive Budget. However, when budget amendment instructions are received from the state, the budget submission will be modified as necessary to conform to that guidance. The University may elect to use all or some of these initiatives in a budget submission for the Executive Budget or during the 2011 General Assembly Session. If any material additions are made to the request because of new opportunities or state guidance, these changes would be reviewed subsequently with the Board of Visitors. A brief description of each of the initiatives follows.

Operating Initiatives — University Division

- Support for Additional Virginia Undergraduates. Virginia Tech has increased Virginia undergraduate student enrollment by 2,298 students since 2003 without any General Fund support. The Commonwealth funding guidelines indicate that "the General Assembly shall seek to cover at least 67 percent of educational costs associated" with the average cost of education for Virginia students. This results in a General Fund shortfall in the institution's operating budget. The University will work with state

officials on this issue and to the extent appropriate will submit a funding request to resolve the state's share of the cost of Virginia resident enrollment growth over time.

- Commonwealth Research Initiative. To continue the significant advancements made as a result of the Commonwealth's investment in research progress, the University needs the Commonwealth to continue support of this highly successful program and to allow the University to pursue additional economic development opportunities consistent with the Commonwealth's recognition of the critical role of research for the State's economic benefit. This support has been significant in moving the University's research institutes and programs forward, resulting in increased research and enhanced opportunities for expanded research. Continued emphasis would result in additional growth in research activities, the expanded development of intellectual properties, enhanced outreach opportunities, increased technology transfer, and support for economic development and growth. Support for these programs will improve the University's ability to achieve critical mass in emerging areas and to recruit world-class research groups, national academy members, and promising Nobel candidates. The University will continue to work with state representatives to support the Commonwealth Research Initiative in 2011-12.
- Center for Creative Technologies in the Arts (CCTA). Focused on the intersection of the arts, creative technologies, and learning, the mission of the CCTA is to conduct and apply transdisciplinary, collaborative research to enhance PK-12 learning. The outcomes promote students' critical and creative thinking skills and improve learning and performance in all subject areas - with a special focus on math, science, social studies, and language arts. The CCTA draws on expertise from the Schools of Education, Visual Arts, and Performing Arts and Cinema in collaboration with the Department of Computer Science, the Department of Communication, and Virginia Tech Science Technology Engineering and Mathematics P-12 Initiative (VT-STEM), and other campus departments and programs. The expertise of multiple disciplines and the creative application of emerging technologies will be leveraged to engage Virginia teachers as active participants in the design and development of innovative tools and processes to strengthen PK-12 learning environments both in and beyond the classroom. These collaborative efforts to strengthen schools will enhance communities and lead to economic growth and development for regions throughout the Commonwealth. The first year of annual support will be requested for this multi-year initiative.
- Operation and Maintenance. The University expects four new buildings to come on-line during the 2010-12 biennium. The General Assembly's past intent has been to fund O&M costs of educational and general buildings at the current fund split (41% general fund, 59% nongeneral fund), and research buildings at fifty percent. Accordingly, the University will request the General Fund support to operate and maintain these new buildings in 2011-12:

- Hazardous Waste Facility (E&G)
 - Institute for Critical Technologies and Applied Sciences II (Research)
 - Infectious Disease Facility (Research)
 - Visitors & Undergraduate Admissions Center (E&G)
- Auxiliary Balance Interest Earnings. In the Commonwealth of Virginia, auxiliary enterprises are mandated to be self-supporting operations. To be fully self-supporting, Auxiliary operations are required to pay direct costs and indirect costs. Consistent with this philosophy, the Commonwealth allocates interest earnings to each institution. The interest earnings on auxiliary balances are integral to the self-supporting requirement. However, the 2010 General Assembly inserted language in the Appropriation Act that calls on the State Comptroller to “not allocate interest earnings” to many of the state’s auxiliary operations for both years of the 2010-12 biennium. The loss of these earnings undermines the ability of auxiliary enterprises to fulfill their commitment to be fully self-supporting, meet debt obligations to bondholders, address maintenance, ensure adequate liquidity, and further results in added pressure on student fees. The University anticipates requesting restoration the original intent and commitment to auxiliary operations that their interest earnings will be available to support their financial obligations by removal of this language.
 - Nongeneral Fund Savings Capture. The state assesses costs to its agencies for various services and support costs provided by the state; many rates (primarily fringe benefit rates) were adjusted for the 2010-12 biennium, most being reduced. This produced savings to the state for the General Fund portion of these benefits. The University’s Management Agreement entitles the University “to retain nongeneral fund savings generated from changes in the Commonwealth rates and charges... rather than reverting such savings back to the Commonwealth.” However, the 2010 General Assembly included language to capture the nongeneral fund savings at state agencies and institutions of higher education. The University anticipates requesting that this language be clarified to ensure that the intent of the Management Agreement is not in conflict with the nongeneral fund capture included in the 2010-12 Appropriation Act.
 - Address Technical Adjustments. To the extent that technical adjustments are needed, the University will work with the staff in state offices to ensure the appropriate treatment of nongeneral fund appropriations.

Operating Initiatives — Cooperative Extension and Agricultural Experiment Station (CE/AES)

- Extension Restructuring. In addition to significant reductions in state support, the 2010 General Assembly reduced the CE/AES budget by an additional \$1 million, and required a report on the results of a strategic planning process that would review and reorganize extension offices across the state in a manner that is financially and programmatically beneficial. This process has been underway for more than a year.

As a result of this process, the CE/AES has developed a strategic plan and restructured its operations on a state-wide basis. In order to reinvest resources in the critical areas identified by the strategic planning process to better serve the citizens of the Commonwealth, the University anticipates asking the state for ongoing support to reinvest in this new restructured organization.

Capital Initiatives

- Infectious Disease Research Facility Project Furniture, Fixtures, and Equipment (FF&E) Supplement. The state has a practice of withholding FF&E budget line items from a project request until the project is under construction. The Infectious Disease Research Facility project is now under a construction contract, and the University may submit a request for these funds accordingly. This request will be a technical adjustment for the state to infuse \$863,000 of previously withheld funds for FF&E.
- Visitors and Admissions Center VCBA Debt Authorization. With restructuring, the University may move expediently to initiate 100 percent nongeneral fund projects approved by the board. In cases where the funding plan calls for a debt issuance, the University may subsequently request debt authorization from the state to qualify for issuance under the Virginia College Building Authority (VCBA). The VCBA is a state managed debt instrument that pools issuances across the state for an overall lower cost of capital compared to local stand alone issuances. The Visitors and Admissions Center project was authorized by the board in June 2008 with a total budget of \$10.5 million including a local debt authorization. The project is under construction with a stand-alone debt issuance date targeted for the fall of 2011. The University plans to request that the Visitors and Admissions Center project be included in the state's VCBA 9(d) debt issuance program for fall 2011.

RECOMMENDATION:

That the University administration be authorized to submit these budget initiatives to the Commonwealth for inclusion in the 2010-11 Executive Budget Amendments in accordance with state instructions and consistent with the initiatives contained herein.

Financial Performance Report - Operating and Capital

FINANCE AND AUDIT COMMITTEE

July 1, 2009 to June 30, 2010

The Financial Performance Report of income and expenditures is prepared from two sources: actual accounting data as recorded at Virginia Tech and the annual budgets which are also recorded in the university accounting system. The actual accounting data reflect the modified accrual basis of accounting, which recognizes revenues when received rather than when earned and the expenditures when obligated rather than when paid. The Original Budget was approved by the Board of Visitors at the June meeting. The Adjusted Budget reflects adjustments to incorporate actual experience or changes made during the fiscal year. These changes are presented for review and approval by the Finance and Audit Committee and the Board of Visitors through this report. Where adjustments impact appropriations at the state level, the university budget coordinates with the Department of Planning and Budget to ensure appropriations are reflected accurately.

The July to June 2009-10 budget (year-to-date) is prepared from historical data which reflects trends in expenditures from previous years as well as known changes in timing. Differences between the actual income and expenditures and the year-to-date budget may occur for a variety of reasons, such as an accelerated or delayed flow of documents through the accounting system, a change in spending patterns at the college level, or increases in revenues for a particular area.

Quarterly budget estimates are prepared to provide an intermediate measure of income and expenditures. Actual revenues and expenditures may vary from the budget estimates. The projected year-end budgets are, however, the final measure of budgetary performance.

1. Tuition and Fee revenue is higher than projected due to savings in the unfunded scholarship program.
2. Other Income is below budget due to less than anticipated activity levels for continuing education programs and the Equine Medical Center.
3. While the Commonwealth requires that revenue and expenses be balanced for Education and General Programs, year-end variances are possible for continuing education programs.
4. The budget for federal revenue is established to match projected allotments from the federal government. All expenses in federal programs are covered by drawdowns of federal revenue up to allotted amounts. Federal revenue in the Cooperative Extension/Agricultural Experiment Station Division was less than the projected budget due the timing of receipt of federal drawdowns.
5. Support Programs expenses are less than projected due to the timing of operating expenditures.
6. While the Commonwealth requires that revenue and expenses be balanced for Education and General Programs, variances in Federal funds are possible due to the timing difference between drawdowns and expenses. In 2009-10 Federal Fund expenditures exceeded revenues due to the timing of drawdowns for expenditures incurred in 2009-10.
7. Quarterly and projected annual variances are explained in the Auxiliary Enterprises section of this report.
8. Historical patterns have been used to develop a measure of the revenue and expenditure activity for Sponsored Programs. Actual revenues and expenses may vary from the budget estimates because projects are initiated and concluded on an individual basis without regard to fiscal year. Total sponsored revenue and expenses are less than projected, but sponsored research expenditures are ahead of 2008-09 activity levels.
9. The expenses for Student Financial Assistance were slightly lower than projected. The university will award the remaining balance in 2010-11.
10. Revenues and Expenses were below projections due to lower than projected interest earnings and Surplus Property sales activity.
11. The General Fund revenue budget has been increased by \$221,000 for a transfer from Student Financial Assistance to the Educational and General program for assistantships in the Multicultural Academic Opportunities Program, increased by \$29,333 for VIVA libraries distribution costs, and increased by \$3,083,333 for support of the Rolls Royce initiative. The General Fund reductions include \$3,157,654 to match the actual central appropriations transfer for fringe benefits and the state-wide furlough, \$22,500 for the General Fund reduction assigned to Agriculture and Consumer Services for pass-through funds which support agriculture education specialists at Virginia Tech. The budget has also been decreased by \$5,185,235 due to the following executive actions: On September 8, 2009, the Governor assigned a \$21,846,707 General Fund reduction to the E&G component of the University Division. The state planned to offset the 2009-10 General Fund reduction with federal stimulus funding. Due to Maintenance of Effort requirements announced in December 2009, the stimulus funding was reduced and the General Fund budget was increased by \$16,661,472. The corresponding expenditure budgets have been adjusted accordingly.
12. The annual budget for Tuition and Fees has been decreased by \$80,168 to finalize the Virginia/Maryland Regional College of Veterinary Medicine regional capitation agreement and increased by \$8,054,187 for strong fall enrollments, by \$3,473,962 for strong spring retention, and by \$27,500 for an increase in equitation fees. The corresponding expenditure budgets have been adjusted accordingly.
13. In September, the federal revenue budget for the University Division was increased by \$10,163,758 to reflect the state's plan to offset a portion of the 2009-10 General Fund reductions. Due to Maintenance of Effort requirements, the federal stimulus funding was decreased by \$16,006,396 when the Executive Budget was released. The federal stimulus budget in the Educational and General program was further reduced by \$22,826 for the transfer to Student Financial Assistance for additional tuition mitigation grants. The corresponding expenditure budgets have been adjusted accordingly.
14. The All Other Income revenue budget for the University Division has been decreased by \$232,208 to reflect lower than projected interest earnings due to lower market rates and by \$100,000 for late registration fees and increased by \$2,297,861 for Continuing Education programs. The corresponding expenditure budgets have been adjusted accordingly.
15. The General Fund revenue budget in the Cooperative Extension/Agricultural Experiment Station Division has been decreased by \$948,931 to match the actual central appropriation revision for fringe benefits and the state mandated furlough. The budget has also been decreased by \$1,074,931 due to the following executive actions: On September 8, 2009, the Governor assigned a \$4,528,956 General Fund reduction to the Cooperative Extension/Agricultural Experiment Station Division. The state planned to offset \$2,107,009 of the 2009-10 General Fund reduction with federal stimulus funding. Due to Maintenance of Effort requirements announced in December 2009, the stimulus funding was removed and \$3,454,025 of General Funds were appropriated to offset the current year reductions. The corresponding expenditure budgets have been adjusted accordingly.
16. The Federal revenue budget in the Cooperative Extension/Agricultural Experiment Station Division has been increased by \$2,033,925 for the carryover of unexpended federal funds and revised calculations of other federal formula funds. The corresponding expenditure budgets have been adjusted accordingly.
17. The Sponsored Programs budget has been decreased by \$57,600 for Virginia Tech's share of the General Fund reduction assigned to SCHEV's Eminent Scholars Program by the Governor on September 8, 2009.
18. The projected year-end revenue and expense budgets for Student Financial Assistance were reduced by \$221,000 for the transfer from Student Financial Assistance to the Educational and General program for assistantships in the Multicultural Academic Opportunities Program and increased by \$308,051 for the Commonwealth Scholarship Assistance Program, by \$33,300 for the VA Military Survivors and Dependent Program, and by \$9,000 for the two-year College Transfer Grant.
19. The federal stimulus revenue and expense budgets for Student Financial Assistance were increased by \$22,825 to cover higher than expected needs for the tuition mitigation grant. The federal stimulus revenue and expense budgets for the Educational and General program were reduced by the same amount.
20. The projected annual budgets were adjusted to reflect the finalization of the Local Funds budget, increases for activities that were initiated prior to June 30, 2009 but incomplete at fiscal year end, and the alignment of the Federal Work Study appropriation with anticipated federal funding.

OPERATING BUDGET
2009-10

Attachment L

Dollars in Thousands

	July 1, 2009 - June 30, 2010			Annual Budget for 2009-10		
	Actual	Budget	Change	Original	Adjusted	Change
Educational and General Programs						
<u>University Division</u>						
<u>Revenues</u>						
General Fund	\$145,674	\$145,674	\$0	\$150,706	\$145,674	\$-5,032 (11)
Tuition and Fees	296,963	296,513	450 (1)	285,037	296,513	11,476 (12)
Federal Funds (ARRA)	9,302	9,302	0	15,167	9,302	-5,865 (13)
All Other Income	28,404	29,842	-1,438 (2)	27,876	29,842	1,966 (14)
Total Revenues	\$480,343	\$481,331	\$-988	\$478,786	\$481,331	\$2,545
<u>Expenses</u>						
Academic Programs	\$-298,661	\$-299,875	\$1,214 (2)	\$-297,373	\$-299,875	\$-2,502 (11,12,13,14)
Support Programs	-181,495	-181,456	-39	-181,413	-181,456	-43 (11,12,13,14)
Total Expenses	\$-480,156	\$-481,331	\$1,175	\$-478,786	\$-481,331	\$-2,545
NET	\$187	\$0	\$187 (3)	\$0	\$0	\$0
<u>CE/AES Division</u>						
<u>Revenues</u>						
General Fund	\$61,569	\$61,569	\$0	\$63,593	\$61,569	\$-2,024 (15)
Federal Appropriation	11,009	15,604	-4,595 (4)	13,570	15,604	2,034 (16)
Federal Funds (ARRA)	0	0	0	0	0	0
All Other Income	736	876	-140	876	876	0
Total Revenues	\$73,314	\$78,049	\$-4,735	\$78,039	\$78,049	\$10
<u>Expenses</u>						
Academic Programs	\$-70,705	\$-70,468	\$-237	\$-70,137	\$-70,468	\$-331 (15, 16)
Support Programs	-5,887	-7,581	1,694 (5)	-7,902	-7,581	321 (15, 16)
Total Expenses	\$-76,592	\$-78,049	\$1,457	\$-78,039	\$-78,049	\$-10
NET	\$-3,278	\$0	\$-3,278 (6)	\$0	\$0	\$0
Auxiliary Enterprises						
Revenues	\$222,447	\$220,312	\$2,135 (7)	\$218,015	\$220,312	\$2,297 (7)
Expenses	-211,316	-225,088	13,772 (7)	-201,288	-225,088	-23,800 (7)
Reserve Drawdown (Deposit)	-11,131	4,776	-15,907 (7)	-16,727	4,776	21,503 (7)
NET	\$0	\$0	\$0	\$0	\$0	\$0
Sponsored Programs						
Revenues	\$241,878	\$248,140	\$-6,262 (8)	\$248,198	\$248,140	\$-58 (17)
Expenses	-204,392	-248,140	43,748 (8)	-248,198	-248,140	58 (17)
Reserve Drawdown (Deposit)	-37,486	0	-37,486 (8)	0	0	0
NET	\$0	\$0	\$0	\$0	\$0	\$0
Student Financial Assistance						
General Fund	\$17,791	\$17,791	\$0	\$17,661	\$17,791	\$130 (18)
Federal Funds (ARRA)	2,177	2,177	0	2,155	2,177	22 (19)
Expenses	-19,966	-19,968	2 (9)	-19,816	-19,968	-152 (18,19)
NET	\$2	\$0	\$2	\$0	\$0	\$0
All Other Programs *						
Revenue	\$5,055	\$5,278	\$-223 (10)	\$5,706	\$5,278	\$-428 (20)
Expenses	-4,829	-5,130	301 (10)	-5,706	-5,130	576 (20)
Reserve Drawdown (Deposit)	-226	-148	-78	0	-148	-148 (20)
NET	\$0	\$0	\$0	\$0	\$0	\$0
Total University						
Revenues	\$1,043,005	\$1,053,078	\$-10,073	\$1,048,560	\$1,053,078	\$4,518
Expenses	-997,251	-1,057,706	60,455	-1,031,833	-1,057,706	-25,873
Reserve Drawdown (Deposit)	-48,843	4,628	-53,471	-16,727	4,628	21,355
NET	\$-3,089	\$0	\$-3,089	\$0	\$0	\$0

* All Other Programs include federal work study, alumni affairs, surplus property, and unique military activities.

AUXILIARY ENTERPRISE BUDGET

Attachment L

1. Revenues in Residence and Dining Halls are higher than projected due to higher than projected summer and spring occupancy, as well as summer conference activity. Expenditures in Residence and Dining Halls are lower than projected because of the timing of general operating expenses for summer projects such as residence hall painting and furniture and equipment replacement.
2. Revenues in Parking and Transportation are higher than projected due to better than projected parking permit sales. Expenses are lower than projected due to delay of debt issuance which provided one-time debt service savings, as well as timing of payment for the non-operating portion of Blacksburg Transit contract with the town of Blacksburg.
3. Revenues in Telecommunications Services are lower than projected due to timing of receivables for campus projects. Expenditures in Telecommunications Services are lower than projected due to the management of the expense budget and the timing of equipment purchases related to infrastructure upgrades.
4. Student fee revenues in the University Services System are higher than projected due to higher enrollments than originally planned. Expenses are lower than projected overall due to staff turnover and vacancy as well as the timing of general operating expenses, one-time equipment purchases, and one-time capital project planning expenses.
5. Revenues for the Intercollegiate Athletics System are higher than projected due to higher than anticipated student fees from higher than budgeted enrollments and better than projected conference allocation revenues. Expenses are lower than projected overall due to timing of cash transfers to capital projects, building renovations, delay of debt issuance which provided one-time debt service savings, and lower than projected operating expenses.
6. Revenues and expenses for Electric Service are higher than projected due to higher than anticipated electrical consumption.
7. Revenues for the Inn at Virginia Tech and Skelton Conference Center are higher than budgeted due to better than projected business activity during the fourth quarter.
8. Revenues and expenses for the Other Enterprise Functions are higher than projected due to higher than anticipated royalties from merchandise sales for the Licensing and Trademark auxiliary. Expenses are lower than projected for All Other Enterprise Functions due to one-time savings and general operating expense savings.
9. The projected annual budget across all of the auxiliary enterprise units was adjusted \$3.9 million for outstanding 2008-09 commitments and projects that were initiated but not completed before June 30, 2009.
10. The projected annual expense and reserve drawdown budgets for auxiliaries with university facilities were increased to accommodate the cost of a state required facility condition assessment study.
11. The projected annual revenue, expense, and reserve budgets for Residence and Dining Halls were adjusted for a decline in investment income, increased revenue from off-campus meal plan sales, and the early payoff of a university internal loan.
12. The projected annual expense and reserve budgets for Parking and Transportation were adjusted to accommodate increased expenses associated with snow removal, a new land lease for a future parking garage, and vehicle maintenance.
13. The projected annual revenue, expense, and reserve budgets for the Telecommunications Services auxiliary were adjusted during budget finalization for changes in departmental service rates and other self-generated revenue. During the third quarter, the revenue and expense budgets were adjusted for anticipated campus projects.
14. The projected annual revenue, expense, and reserve budgets for the University Services System were adjusted for a technical change in the self-generated revenue budget for the Recreational Sports auxiliary, a \$400,000 building feasibility study for the Squires Student Center, the establishment of auxiliary operating support for the Center for Arts, lower projected self-generated revenue, investment income, and associated expenses for UUSA and Student Health.
15. The projected annual revenue budget for Intercollegiate Athletics was adjusted \$2.6 million to accommodate increased revenue from the NCAA Opportunity Fund, neutral site game, handling fees, licensing, football game settlements, basketball game settlements, conference allocation, private gifts, and Chick-fil-A Bowl. These increases were partially offset by lower than projected interest earnings, football away games, football ticket allocations, publication sales, women's basketball home games, basketball away games, and tennis center revenue. Annual expense and reserve draw budgets were adjusted to accommodate personnel actions, operating adjustments, team travel, the Chick-fil-A Bowl, \$1.7 million in building renovations, a \$9.0 million cash drawdown to fund the construction costs for the Jamerson Center Addition, and a \$3.2 million cash drawdown to fund the West Side Expansion final expenses.
16. The projected annual revenue, expense, and reserve budgets for the Electric Service auxiliary were adjusted \$1.8 million to accommodate lower electrical sales and rate changes. The expense and reserve budgets were adjusted \$1.0 million to accommodate the purchase of electricity and operating expenses.
17. The projected annual revenue, expense, and reserve budgets for the Inn at Virginia Tech and Skelton Conference Center were adjusted for an expected decline in business activity.
18. Other Auxiliary Enterprise expense and reserve budgets were adjusted for increased revenue from the sale of software in the Software Sales Auxiliary, a projected decrease in royalty income from the sale of Virginia Tech merchandise in the Licensing and Trademark auxiliary, an increase in Orientation fees, system hardware upgrades for the Hokie Passport Office, and a value-added tax expense related to the Center for European Studies and Architecture.

**UNIVERSITY DIVISION
AUXILIARY ENTERPRISES**

Attachment L

Dollars in Thousands

	July 1, 2009 - June 30, 2010			Annual Budget for 2009-10		
	Actual	Budget	Change	Original	Adjusted	Change
Residence and Dining Halls						
Revenues	\$77,440	\$77,116	\$324 (1)	\$75,375	\$77,116	\$1,741 (11)
Expenses	-68,861	-70,688	1,827 (1)	-67,970	-70,688	-2,718 (9, 10, 11)
Reserve Drawdown (Deposit)	-8,579	-6,428	-2,151	-7,405	-6,428	977 (9, 10, 11)
Net	\$0	\$0	\$0	\$0	\$0	\$0
Parking and Transportation						
Revenues	\$6,308	\$6,131	\$177 (2)	\$6,131	\$6,131	\$0
Expenses	-5,559	-6,261	702 (2)	-5,924	-6,261	-337 (9, 12)
Reserve Drawdown (Deposit)	-749	130	-879	-207	130	337 (9, 12)
Net	\$0	\$0	\$0	\$0	\$0	\$0
Telecommunications Services						
Revenues	\$16,146	\$16,520	-\$374 (3)	\$15,539	\$16,520	\$981 (13)
Expenses	-15,866	-17,162	1,296 (3)	-15,460	-17,162	-1,702 (9, 13)
Reserve Drawdown (Deposit)	-280	642	-922	-79	642	721 (9, 13)
Net	\$0	\$0	\$0	\$0	\$0	\$0
University Services System						
Revenues	\$28,528	\$27,984	\$544 (4)	\$28,070	\$27,984	-\$86 (14)
Expenses	-24,815	-26,695	1,880 (4)	-26,029	-26,695	-666 (9, 10, 14)
Reserve Drawdown (Deposit)	-3,713	-1,289	-2,424	-2,041	-1,289	752 (9, 10, 14)
Net	\$0	\$0	\$0	\$0	\$0	\$0
Intercollegiate Athletics						
Revenues	\$50,680	\$50,112	\$568 (5)	\$47,425	\$50,112	\$2,687 (15)
Expenses	-54,259	-61,019	6,760 (5)	-42,282	-61,019	-18,737 (9, 10, 15)
Reserve Drawdown (Deposit)	3,579	10,907	-7,328	-5,143	10,907	16,050 (9, 10, 15)
Net	\$0	\$0	\$0	\$0	\$0	\$0
Electric Service						
Revenues	\$27,812	\$27,363	\$449 (6)	\$29,199	\$27,363	-\$1,836 (16)
Expenses	-27,835	-27,730	-105 (6)	-28,396	-27,730	666 (9, 16)
Reserve Drawdown (Deposit)	23	367	-344	-803	367	1,170 (9, 16)
Net	\$0	\$0	\$0	\$0	\$0	\$0
Inn at Virginia Tech/Skelton Conf. Center						
Revenues	\$8,418	\$8,194	\$224 (7)	\$9,350	\$8,194	-\$1,156 (17)
Expenses	-8,585	-8,636	51	-9,279	-8,636	643 (9, 10, 17)
Reserve Drawdown (Deposit)	167	442	-275	-71	442	513 (9, 10, 17)
Net	\$0	\$0	\$0	\$0	\$0	\$0
Other Enterprise Functions						
Revenues	\$7,115	\$6,892	\$223 (8)	\$6,926	\$6,892	-\$34 (18)
Expenses	-5,536	-6,897	1,361 (8)	-5,948	-6,897	-949 (9, 18)
Reserve Drawdown (Deposit)	-1,579	5	-1,584	-978	5	983 (9, 18)
Net	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL AUXILIARIES						
Revenues	\$222,447	\$220,312	\$2,135	\$218,015	\$220,312	\$2,297
Expenses	-211,316	-225,088	13,772	-201,288	-225,088	-23,800
Reserve Drawdown (Deposit)	-11,131	4,776	-15,907	-16,727	4,776	21,503
Net	\$0	\$0	\$0	\$0	\$0	\$0

Educational and General Projects

1. The project total budget reflects the appropriation available for fiscal year 2010, including the amount carried forward from fiscal year 2009. The annual budget reflects the target amount needed to meet or exceed the state's 85 percent biennial performance requirement, which the university met. Year-to-date expenses exceeded the annual budget because expenses expected in fiscal year 2011 were invoiced in fiscal year 2010. Resources were sufficient to cover the accelerated cash outflow and the project remains within budget.
2. Blanket Authorizations allow unforeseen small projects to be authorized administratively with nongeneral funds for expediency. This project includes a \$3.5 million authorization to initiate planning for a Sciences Research and Academic Building and a \$1 million authorization to initiate planning for the Relocation of the agriculture programs.
3. This project addresses the improvement of campus heating infrastructure needed to accommodate current and future campus buildings. The project will be accomplished in multiple phases with a total cost of \$28.75 million. Phases for the steam distribution upgrades, boiler upgrades, plant upgrades, and life sciences steam line are complete. The final phase, Prices Fork steam line, is scheduled to start construction in the fall 2010. The annual budget was adjusted to reflect revised cash outflows for fiscal year 2010.
4. This Critical Technologies Research Laboratory building project includes a new 42,000 gross square foot state-of-the-art research facility that will support multidisciplinary research. The project is under construction with a completion date of December 2010. Year-to-date expenses exceeded the annual budget because expenses expected in fiscal year 2011 were invoiced in fiscal year 2010. Resources were sufficient to cover the accelerated cash outflow and the project remains within budget.
5. This project is envisioned to construct a 15,700 gross square foot high containment research laboratory facility for the study of infectious diseases. The design process is complete, a Guaranteed Maximum Price contract within budget was received in June 2010, and construction is underway.
6. The purpose of this project is to construct a 48,000 gross square foot building along the campus perimeter to house various administrative and academic support functions in a central location. The project is on hold.
7. This project includes a new Visitors and Undergraduate Admissions Center at the Prices Fork entrance to the university near the new Alumni Center. Construction is underway with occupancy expected by summer 2011. Year-to-date expenses exceeded the annual budget because expenses expected in fiscal year 2011 were invoiced in fiscal year 2010. Resources were sufficient to cover the accelerated cash outflow and the project remains within budget.
8. This project will construct a 7,500 gross square foot building to provide a central location for the management, storage, and eventual disposal of hazardous materials that are products of the academic program. Construction is underway with an expected completion by September 2010. Year-to-date expenses exceeded the annual budget because expenses expected in fiscal year 2011 were invoiced in fiscal year 2010. Resources were sufficient to cover the accelerated cash outflow and the project remains within budget.
9. This project includes construction of an approximately 155,000 square foot medical school and research laboratory building to be built in the Riverside Center in Roanoke on land owned by Carilion. The project is being implemented under a Public-Private Education Facilities and Infrastructure Act (PPEA) agreement with a target completion date of August 2010 for the Medical School and September 2010 for the Research Institute. The university worked with the state to increase the total project authorization by \$3.5 million to specialize laboratory space in the research institute to create a neuroimaging center.
10. The original vision for this project includes a 92,300 gross square foot scientific laboratory facility to support interdisciplinary instruction and research. The project is on hold pending the outcome of external funding sources, and the state support was shifted in House Bill 29 to the Performing Arts Center to advance the renovation of Shultz Hall for the Creative Technologies Laboratory. Current planning activities for this project are being conducted under the Blanket Authorization with \$546,780 in expenditures as of June 30, 2010.
11. This project is envisioned to construct a state-of-the-art performance theatre and creative arts laboratory. Working drawings are underway, with an early site package to begin this fall. Funding for the renovation of Shultz Hall for the Creative Technologies Laboratory (\$28.758 million) was included in House Bill 29.
12. This project includes an approximately 60,000 gross square foot facility located in Hampton Roads. The project is being implemented under a Public-Private Education Facilities and Infrastructure Act (PPEA) agreement with delivery through a design-build process. The design phase is underway with occupancy expected January 2012.
13. This project encompasses a 77,500 gross square foot facility on the north side of campus to house dining and instructional space. A site package is underway and working drawings for the building are nearly complete. Substantial completion is expected in spring 2012.
14. This project comprises planning of a 50,000 square foot addition to the VBI facility to provide office, meeting, and conference space for VBI faculty, research, and support personnel. Working drawings are complete and construction is pending the outcome of external funding.
15. This project was established for planning a 35,000 gross square foot facility to house the public safety programs of the police department, rescue squad, and emergency management. The original purpose of the planning project was to expedite the project schedule in the event the state funded the university's 2008 General Assembly request. The state did not fund the project; thus, the planning is on hold and the project may be closed at the end of the fiscal year.
16. This project encompasses planning of a multipurpose laboratory building for agricultural research conducted by the Southern Piedmont Agricultural Research and Extension Center (SPAREC). The planning work is complete and a request for the construction phase depends on the college securing sufficient grant and/or private donations to fully fund the project. This planning project may be closed at the end of the fiscal year.
17. This project will plan the first phase of the renovation of Davidson Hall, which is envisioned to raze and fully replace the unrecoverable center and north section of the building. The state approved increasing the planning authorization by \$750,000 of temporary nongeneral fund resources to carry the project through construction drawings, and the project's budget was increased to \$2.256 million accordingly. This temporary infusion will be reimbursed once the project is fully funded by the state. The project has completed the working drawings phase and is awaiting state support for construction.
18. This project will plan a central chiller plant facility in the southwest section of campus as part of a strategy to increase the efficiency of campus cooling systems and to serve new buildings coming on line in the area. The state approved increasing the planning authorization by \$500,000 of temporary nongeneral fund resources to continue the project's design process, and the project's total budget was increased to \$980,000 accordingly. This temporary infusion will be reimbursed once the project is fully funded by the state. Preliminary design is underway.
19. This project will plan the construction of a laboratory building to provide expanded, modern research space to meet the needs of animal and plant science research by the Agricultural Experiment Station in the College of Agriculture and Life Sciences. The state approved increasing the planning authorization by \$2,100,000 of temporary nongeneral fund resources to carry the project through construction drawings, and the project's budget was increased to \$4.14 million accordingly. This temporary infusion will be reimbursed once the project is fully funded by the state. The university is working with the state to identify a replacement source for the \$1 million of stimulus funds that were originally authorized as state resources for the project in Chapter 781, 2009. The project has completed the working drawings phase and is awaiting state support for construction. Year-to-date expenses exceeded the annual budget because expenses expected in fiscal year 2011 were invoiced in fiscal year 2010. Resources were sufficient to cover the accelerated cash outflow and the project remains within budget.

20. This project will plan the construction of a 157,000 gross square foot classroom and laboratory facility for undergraduate and research programs in the College of Engineering. The state authorized increasing the planning authorization by \$4,100,000 of temporary nongeneral fund resources to carry the project through construction drawings, and the project's budget was increased to \$6.434 million accordingly. This temporary infusion will be reimbursed once the project is fully funded by the state. The project is in the working drawing phase.
21. This project will plan the construction of a facility that will provide updated classroom, laboratory, and faculty office space to meet the needs of the College of Veterinary Medicine. The project is currently in the preplanning phase.

2002 General Obligation Bond Program

22. The project is complete and was closed as of June 30, 2010.
23. The project is complete and was closed as of June 30, 2010. The approved budget was \$10,468,000.
24. The project is complete and will be closed when final payments are processed, with an expected total cost of \$16,323,000.
25. The project is complete and was closed as of June 30, 2010. The approved budget was \$45,990,000.

Auxiliary Enterprises Projects

1. Projects are scheduled and funded by the auxiliary enterprises during the annual Auxiliary Enterprise Budgeting Process. The revised annual budget reflects the spending plans of the auxiliary units on scheduled maintenance reserve work for fiscal year 2010. Year-to-date expenses are below the revised annual budget because subprojects scheduled for fiscal year 2010 were pushed to fiscal year 2011. These funds have been committed but not fully expended.
2. This authorization includes one active subproject to complete a parking lot on Chicken Hill, with an estimated remaining cost of \$750,000. This final phase of the Chicken Hill lot is expected to start May 2010 and be operational late August 2010. The authorization balance may be used to complete future improvements and repair projects for the parking system. Year-to-date expenses are below the revised annual budget because construction commenced later than originally scheduled. The project's completion remains on schedule for late August 2010.
3. The project is complete and was closed on June 30, 2010, with a total cost of \$57.25 million.
4. The project is complete and will be closed when final payments have been processed. The anticipated final project costs are \$31 million.
5. This project includes renovation of East and West Ambler Johnston Hall. The facility is being renovated in phases with occupancy of the final phase, West Ambler Johnston, expected by summer 2012. The total expected costs are \$72.1 million.
6. This project includes 25,000 gross square feet (GSF) of new construction and 2,000 GSF of renovation to address a portion of the growing demand for increased student recreational areas. The project is under construction and occupancy is expected by fall 2010, with an expected total cost of \$12.8 million.
7. The purpose of this project is to build a new, 120,000 gross square foot field house to increase the availability of indoor training time for football and other athletic programs. The project is on hold to advance the Addition to the Jamerson Center.
8. The project is complete and was closed on June 30, 2010, with a final cost of \$20.46 million.
9. This project envisioned a new residence hall of approximately 250 beds. Cost estimates exceed the project budget, and the project is on hold while the university explores potential alternatives.
10. This repair project addresses moisture penetration and structural problems in the exterior walls of McComas Hall. Work is underway and is being coordinated with the addition to the facility. Completion is expected by summer 2011.
11. This project includes design and construction of a 1,200 space parking structure located on the Prices Fork parking lot. Construction is underway with occupancy expected no later than fall 2010 and an expected total cost of \$26 million. Year-to-date expenses exceed the revised annual budget because the pace of construction billing exceeded estimates. Resources were sufficient and available to cover the accelerated cash flow.
12. This project envisions construction of a centralized north chiller plant located next to the Prices Fork parking structure. Initial cost estimates exceed the project budget, and the project is on hold while the university explores potential alternatives.
13. This project is to update the food service areas in Owens Hall and to renovate and expand the kitchen and dining area in West End Market to improve the service of the dining centers. The university received a Guaranteed Maximum Price proposal that is beyond the authorized budget and scope of the project. The project is on hold while the university explores potential alternatives. The annual budget was adjusted to reflect the total planning allotment.
14. The project was complete and closed on June 30, 2010, with a total cost of \$1.488 million. Year-to-date expenses exceed the revised annual budget because of \$151,000 of unexpected work. The total project costs remain substantially below the authorization level, and resources were sufficient and available to cover these costs.
15. This project includes a 38,853 gross square foot facility adjacent to the Jamerson Center at the south east corner. The facility provides new locker rooms, a training room, and program space serving the Athletics program. Construction is underway with occupancy expected by fall 2010. The expected total cost is \$16.1 million.
16. The project is complete and was closed on June 30, 2010, with a total cost of \$1.075 million.
17. This project is an expansion of the Oak Lane Community and will establish the necessary site improvements and construction of at least three and up to five new houses. The total project authorization is approved at \$23.5 million. The approved funding plan calls for housing corporations to provide 33 percent of the cost of a house and for the university to cover the remaining house costs and site development costs. Procurement of a site analysis for the project is underway.
18. The project includes installation of a photovoltaic array on top of the parking structure. This project was authorized by the state during the third quarter of the fiscal year as part of a statewide energy savings program funded by Federal stimulus funds. The installation is expected to start late fall 2010 and to be complete winter 2010. This project will not impact the capacity of the parking structure.

**CAPITAL OUTLAY PROJECTS
AUTHORIZED AS OF JUNE 30, 2010**

Dollars in Thousands

	CURRENT YEAR			TOTAL PROJECT BUDGET					
	ORIGINAL ANNUAL BUDGET	REVISED ANNUAL BUDGET	YTD EXPENSES	STATE SUPPORT	GENERAL OBLIGATION BOND	NONGENERAL FUND	REVENUE BOND	TOTAL BUDGET	CUMULATIVE EXPENSES
Educational and General Projects									
Maintenance Reserve	10,265	10,511	11,426	16,900	0	0	0	16,900	15,281 (1)
Blanket Authorizations	0	500	179	0	0	4,643	0	4,643	696 (2)
Upgrade Campus Heating Plant	11,000	6,500	4,686	17,250	0	2,750	11,500	31,500	21,503 (3)
Institute for Critical Technology and Applied Science II	13,200	18,000	19,655	17,500	0	0	17,500	35,000	22,115 (4)
Infectious Disease Research Facility	1,180	500	307	3,137	0	6,163	0	9,300	758 (5)
Administrative Services Building	0	0	0	0	0	0	12,000	12,000	0 (6)
Visitors and Undergraduate Admissions Center	550	550	944	0	0	3,400	7,100	10,500	1,574 (7)
Materials Management Facility	2,365	1,600	1,754	3,500	0	0	0	3,500	2,137 (8)
VT-Carilion School of Medicine and Research Institute	34,000	37,000	36,063	59,000	0	3,500	0	62,500	43,332 (9)
Sciences Building Laboratory I	0	0	0	0	0	0	0	0	0 (10)
Performing Arts Center	3,566	3,566	2,986	28,758	0	7,235	58,000	93,993	4,673 (11)
Hampton Technology Research & Innovation Center	1,500	700	255	12,000	0	0	0	12,000	255 (12)
Academic and Student Affairs Building	1,720	1,720	1,684	0	0	0	45,153	45,153	2,569 (13)
Planning: VBI Addition Facility	350	350	342	0	0	0	2,400	2,400	2,345 (14)
Planning: Public Safety Building	0	0	0	0	0	1,600	0	1,600	0 (15)
Planning: Southern Piedmont AREC Laboratory	0	4	4	0	0	375	0	375	356 (16)
Planning: Renovate Davidson Hall	706	1,531	1,485	1,506	0	750	0	2,256	2,211 (17)
Planning: Chiller Plant, Phase I	257	550	451	480	0	500	0	980	667 (18)
Planning: Human & Agricultural Biosciences Bldg. I	1,320	1,320	2,250	2,040	0	2,100	0	4,140	2,897 (19)
Planning: Signature Engineering Building	2,083	2,083	1,881	1,350	0	5,083	0	6,434	2,045 (20)
Planning: Veterinary Medicine Instruction Addition	0	0	0	0	0	1,400	0	1,400	0 (21)
TOTAL	84,062	86,984	86,354	163,421	0	39,499	153,653	356,574	125,414
2002 General Obligation Bond Program									
Life Sciences I	1,100	1,145	980	4,987	26,263	0	8,750	40,000	39,835 (22)
Cowgill Hall HVAC and Power	660	675	579	3,825	7,500	0	0	11,325	10,372 (23)
Henderson Hall	3,817	3,555	3,379	7,333	6,542	2,448	0	16,323	16,147 (24)
Inst. for Critical Technology and Applied Science, Ph I	500	770	760	9,994	13,996	6,989	17,000	47,979	45,980 (25)
TOTAL	6,077	6,145	5,698	26,139	54,301	9,437	25,750	115,627	112,334

Capital Outlay Projects Authorized as of June 30, 2010 (Continued)

Dollars in Thousands

	CURRENT YEAR			TOTAL PROJECT BUDGET					
	ORIGINAL ANNUAL BUDGET	REVISED ANNUAL BUDGET	YTD EXPENSES	STATE SUPPORT	GENERAL OBLIGATION BOND	NONGENERAL FUND	REVENUE BOND	TOTAL BUDGET	CUMULATIVE EXPENSES
Auxiliary Enterprises Projects									
Maintenance Reserve	5,000	6,300	4,321	0	0	9,828	0	9,828	4,321 (1)
Parking Auxiliary Projects	750	500	4	0	0	0	17,297	17,297	4 (2)
Expand Lane Stadium, West Side	723	3,953	3,953	0	0	4,962	54,740	59,702	57,251 (3)
New Residence Hall	5,079	5,190	4,653	0	0	953	30,047	31,000	30,463 (4)
Renovate Ambler Johnston Hall	19,208	19,208	18,486	0	0	0	75,000	75,000	24,328 (5)
Recreational, Counseling, Clinical Space	6,863	6,863	5,674	0	0	0	13,000	13,000	6,421 (6)
Indoor Athletic Training Facility	0	0	0	0	0	0	25,000	25,000	0 (7)
Basketball Practice Facility	4,600	4,070	3,882	0	0	11,700	9,400	21,100	20,462 (8)
New Residence Hall II	0	0	0	0	0	0	27,000	27,000	182 (9)
Repair McComas Hall Exterior Wall Structure	2,013	2,013	1,445	0	0	0	6,000	6,000	4,001 (10)
Parking Structure	15,100	15,100	17,298	0	0	0	30,000	30,000	18,868 (11)
North Chiller Plant	900	200	0	0	0	3,800	0	3,800	0 (12)
Renovate Owens & West End Market Food Courts	2,300	257	255	0	0	0	5,000	5,000	411 (13)
Indoor Batting Practice Facility	1,700	742	893	0	0	2,300	0	2,300	1,488 (14)
Addition to Jamerson Center	12,600	12,600	11,075	0	0	18,000	0	18,000	11,075 (15)
Motor Pool Renovation & Expansion	0	1,076	1,075	0	0	1,076	0	1,076	1,075 (16)
Phase IV of Oak Lane Community	0	0	0	0	0	0	23,500	23,500	0 (17)
Photovoltaic Array for Parking Structure	0	0	0	0	0	1,300	0	1,300	0 (18)
TOTAL	76,836	78,072	73,014	0	0	53,920	315,984	369,904	180,350
GRAND TOTAL	<u>\$ 166,975</u>	<u>\$ 171,201</u>	<u>\$ 165,065</u>	<u>\$ 189,560</u>	<u>\$ 54,301</u>	<u>\$ 102,856</u>	<u>\$ 495,387</u>	<u>\$ 842,104</u>	<u>\$ 418,098</u>

RECOMMENDATION:

That the report of income and expenditures for the University Division and the Cooperative Extension/Agricultural Experiment Station Division for the period of July 1, 2009 through June 30, 2010 and the Capital Outlay report be accepted.

August 30, 2010

Approval of 9(c) Debt Financing Resolutions

FINANCE AND AUDIT COMMITTEE

The following projects have been authorized to be financed pursuant to Section 9(c) of Article X of the Constitution of Virginia for up to \$35.903 million plus amounts needed to fund issuance costs, reserve funds, and other financing expenses.

1. **Parking Auxiliary Improvements (Project #14815):** **\$750,000**
 The Parking Auxiliary Improvement project consists of paving the existing Upper Chicken Hill parking lot adjacent to the Lower Chicken Hill parking lot at the intersection of Tech Center Drive and Southgate Drive. The construction consists of a paved surface for approximately 510 parking spaces for commuter and graduate students. The proposed resolution pledges the net revenues of the Parking Auxiliary to the payment of debt service.

2. **Academic and Student Programs Building (Project #17859):** **\$35,153,000**
 The Academic and Student Programs Building project will construct a 75,000 gross square foot, three-story building on Old Turner Street between the ICTAS I Building and Randolph Hall to provide additional dining services for the north end of campus along with some additional instructional space. The two lower floors will contain approximately 800 dining seats and related food preparation space, and the third floor will contain a combination of instructional space and student support space. The Dining Services Auxiliary will issue debt for the entire building and lease the instructional component to E&G through a facilities use agreement. The \$45.153 million total project cost will be funded with \$35.153 million of 9(c) debt for the dining component and \$10.0 million of 9(d) debt for the instructional component. The proposed resolution for the \$35.153 million dining portion pledges of the net revenues of the Dining Services Auxiliary to the payment of debt service.

The proposed resolutions request the issuance of 9(c) bonds through the Treasury Board on behalf of the University. The resolutions identify (1) the Vice President for Finance and Chief Financial Officer, and (2) the University Treasurer as each being authorized to execute and deliver all certificates and instruments and to take all such further action as may be considered necessary or desirable in connection with the sale and issuance of the bonds.

RESOLUTION ON PARKING AUXILIARY IMPROVEMENTS 9(c) FINANCING

WHEREAS, there have been passed by the General Assembly of Virginia and signed by the Governor acts entitled “Commonwealth of Virginia Higher Educational Institutions Bond Act of 2010” (the “2010 Act”), “Commonwealth of Virginia Higher Educational Institutions Bond Act of 2009” (the “2009 Act”), “Commonwealth of Virginia Higher Educational Institutions Bond Act of 2008” (the “2008 Act”), “Commonwealth of Virginia Higher Educational Institutions Bond Act of 2007” (the “2007 Act”), and “Commonwealth of Virginia Higher Educational Institutions Bond Act of 2006” (the “2006 Act” and, together with the 2007 Act, the 2008 Act, the 2009 Act, and the 2010 Act, the “Acts”);

WHEREAS, pursuant to the Acts, the Treasury Board of the Commonwealth of Virginia (the “Treasury Board”) is authorized, by and with the consent of the Governor, to sell and issue bonds or bond anticipation notes of the Commonwealth of Virginia (the “Commonwealth”) for the purpose of providing funds, together with other available funds, for paying the cost of acquiring, constructing, renovating, enlarging, improving and equipping certain revenue-producing capital projects at certain institutions of higher learning of the Commonwealth and for paying issuance costs, reserve funds and other financing expenses, including capitalized interest for any such project (collectively, the “Financing Expenses”), all in accordance with the provisions of Section 9(c) of Article X of the Constitution of Virginia;

WHEREAS, for Virginia Polytechnic Institute and State University (the “Institution”), such revenue-producing capital projects include the Parking Auxiliary Improvements Project Number 14815 (each individually, a “Project” and, collectively, the “Projects”); and

WHEREAS, the Treasury Board is proposing to sell and issue bonds or bond anticipation notes pursuant to the Acts for such revenue-producing capital projects, in one or more series.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF VISITORS OF VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY:

Section 1. The Board of Visitors of the Institution (the “Board”) requests the Treasury Board to sell and issue bonds (the “Bonds”) or bond anticipation notes (“BANs”) in an aggregate principal amount not to exceed \$750,000 to finance all or a portion of the costs of each Project plus Financing Expenses (for each individual Project, the “Individual Project Bonds” or “Individual Project Notes” and, collectively, the “Individual Project Borrowing” and for all Projects, the “Project Bonds” or “Project Notes” and, collectively, the “Project Borrowings”). The Individual Project Borrowings will be identified by amount by the State Treasurer upon issuance of any Bonds or BANs.

Section 2. With respect to each Project, the Board (a) covenants to fix, revise, charge and collect parking fees and other rates, fees and charges, for or in connection with the use, occupation and services of such Project and (b) pledges such rates, fees and charges remaining after payment of (i) the expenses of operating such Project and (ii) the

expenses related to all other activities funded by the parking fees ("Individual Project Net Revenues") to the payment of the principal of, premium, if any, and interest on the Individual Project Borrowing relating thereto. The Board further covenants that it will fix, revise, charge and collect such rates, fees and charges in such amounts so that Individual Project Net Revenues will at all times be sufficient to pay, when due, the principal of, premium, if any, and interest on the related Individual Project Borrowing and on any other obligations secured by such Individual Project Net Revenues (such payments collectively the "Required Payments"). Each Individual Project Borrowing shall be secured on a parity with other obligations secured by the Individual Project Net Revenues relating to such Individual Project Borrowing (other than any obligations secured by a prior right in Individual Project Net Revenues). Any Individual Project Net Revenues pledged herein in excess of the Required Payments for an Individual Project Borrowing may be used by the Institution for any other lawful purpose.

Section 3. It is hereby found, determined and declared that, based upon responsible engineering and economic estimates and advice of appropriate officials of the Institution, as shown on the Financial Feasibility Study provided to the Department of the Treasury, with respect to each Project, the anticipated Individual Project Net Revenues pledged herein will be sufficient to pay the Required Payments for such Project so long as the aggregate amount of net debt service on the Individual Project Borrowing for such Project actually payable in any bond year does not exceed the amounts assumed in the Financial Feasibility Study relating thereto.

Section 4. The Board covenants that the Institution will furnish the Treasury Board its general purpose financial statements, within 30 days of their issuance and receipt, audited by a firm of certified public accountants or the Auditor of Public Accounts. If Individual Project Net Revenues for any Project are insufficient to pay Required Payments for such Project during such period, the Institution shall provide evidence of a plan to generate Individual Project Net Revenues for such Project sufficient to make such Required Payments in the future.

Section 5. The Board covenants that so long as any of the Project Notes are outstanding, the Institution will pay to the State Treasurer, not less than 30 days before each interest payment date, an amount estimated by the State Treasurer to be due and payable on such date as interest on the Project Notes. The Board covenants that so long as any of the Project Bonds are outstanding, the Institution will pay to the State Treasurer, not less than 30 days before each interest or principal payment date, the amount certified by the State Treasurer to be due and payable on such date as principal of, premium, if any, and interest on the Project Bonds.

Section 6. The Board covenants that the Institution will pay from time to time its proportionate share of all expenses incurred in connection with the sale and issuance of any series of Bonds that includes Project Bonds or Project Notes and all expenses thereafter incurred in connection with the Bonds, including without limitation the expense of calculating any rebate to the United States of the earnings derived from the investment of gross proceeds of the Bonds, all as certified by the State Treasurer to the Institution.

Section 7. The Board covenants that the Institution will not take or omit to take any action the taking or omission of which will cause the Bonds to be “arbitrage bonds” within the meaning of Section 148 of the Internal Revenue Code of 1986, as amended, including regulations issued pursuant thereto (the “Code”), or otherwise cause interest on the Bonds to be includable in the gross income of the owners thereof for federal income tax purposes under existing laws. Without limiting the generality of the foregoing, the Institution will pay from time to time its proportional share of any rebate to the United States of the earnings derived from the investment of the gross proceeds of the Bonds.

Section 8. The Board covenants that the Institution will proceed with due diligence to undertake and complete the Projects and that the Institution will spend all of the available proceeds derived from the sale of the Project Borrowings for costs associated with the Projects and appropriated for the Projects by the General Assembly.

Section 9. The Board covenants that the Institution will not permit the proceeds of each Individual Project Borrowing to be used in any manner that would result in (a) 5 percent or more of such proceeds being used in a trade or business carried on by any person other than a governmental unit, as provided in Section 141(b) of the Code, (b) 5 percent or more of such proceeds being used with respect to any output facility within the meaning of Section 141(b)(4) of the Code, or (c) 5 percent or more of such proceeds being used directly or indirectly to make or finance loans to any persons other than a governmental unit, as provided in Section 141(c) of the Code. The Institution need not comply with such covenants if the Institution obtains the written approval of the State Treasurer and an opinion of nationally recognized bond counsel acceptable to the Treasury Board that such covenants need not be complied with to prevent the interest on the Bonds from being includable in the gross income of the owners thereof for federal income tax purposes.

Section 10. The Board covenants that for so long as any of the Bonds are outstanding the Institution will not enter into any operating lease, management contract or similar agreement with any person or entity, other than a state or local governmental unit, for all or any portion of any of the Projects without first obtaining the written approval of the State Treasurer and an opinion of nationally recognized bond counsel acceptable to the Treasury Board that entering into such agreement will not cause the interest on the Bonds to be included in the gross income of the owners thereof for federal income tax purposes.

Section 11. The Board covenants that for so long as any of the Bonds are outstanding, the Institution will not sell or dispose of all or any part of any of the Projects without first obtaining the written approval of the State Treasurer and an opinion of nationally recognized bond counsel acceptable to the Treasury Board that such sale or disposition will not cause interest on the Bonds to be included in the gross income of the owners thereof for federal income tax purposes.

Section 12. The Board hereby approves and authorizes the Vice President for Finance and Chief Financial Officer, and the University Treasurer of the Institution (the “Authorized Officers”) to execute and deliver all certificates and instruments and to take

all such further action as may be considered necessary or desirable in connection with the sale and issuance of the Bonds.

Section 13. The Board acknowledges that the Treasury Board will rely on the representations and covenants set forth herein in issuing the Bonds, that such covenants are critical to the security for the Bonds and the exclusion of the interest on the Bonds from the gross income of the owners thereof for federal income tax purposes, that the Board will not repeal, revoke, rescind or amend any of such covenants without first obtaining the written approval of the Treasury Board, and that such covenants will be binding upon the Board so long as any of the Bonds are outstanding.

Section 14. This resolution shall take effect immediately.

RECOMMENDATION:

That the above resolution authorizing the issuance of 9(c) bonds through the Treasury Board on behalf of the University for the Parking Auxiliary Improvements project be approved.

August 30, 2010

RESOLUTION ON ACADEMIC AND STUDENT PROGRAMS BUILDING 9(c) FINANCING

WHEREAS, there have been passed by the General Assembly of Virginia and signed by the Governor acts entitled “Commonwealth of Virginia Higher Educational Institutions Bond Act of 2010” (the “2010 Act”), “Commonwealth of Virginia Higher Educational Institutions Bond Act of 2009” (the “2009 Act”), “Commonwealth of Virginia Higher Educational Institutions Bond Act of 2008” (the “2008 Act”), “Commonwealth of Virginia Higher Educational Institutions Bond Act of 2007” (the “2007 Act”), and “Commonwealth of Virginia Higher Educational Institutions Bond Act of 2006” (the “2006 Act” and, together with the 2007 Act, the 2008 Act, the 2009 Act, and the 2010 Act, the “Acts”);

WHEREAS, pursuant to the Acts, the Treasury Board of the Commonwealth of Virginia (the “Treasury Board”) is authorized, by and with the consent of the Governor, to sell and issue bonds or bond anticipation notes of the Commonwealth of Virginia (the “Commonwealth”) for the purpose of providing funds, together with other available funds, for paying the cost of acquiring, constructing, renovating, enlarging, improving and equipping certain revenue-producing capital projects at certain institutions of higher learning of the Commonwealth and for paying issuance costs, reserve funds and other financing expenses, including capitalized interest for any such project (collectively, the “Financing Expenses”), all in accordance with the provisions of Section 9(c) of Article X of the Constitution of Virginia;

WHEREAS, for Virginia Polytechnic Institute and State University (the “Institution”), such revenue-producing capital projects include the Academic and Student Programs Building Project Number 17859 (each individually, a “Project” and, collectively, the “Projects”); and

WHEREAS, the Treasury Board is proposing to sell and issue bonds or bond anticipation notes pursuant to the Acts for such revenue-producing capital projects, in one or more series.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF VISITORS OF VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY:

Section 1. The Board of Visitors of the Institution (the “Board”) requests the Treasury Board to sell and issue bonds (the “Bonds”) or bond anticipation notes (“BANs”) in an aggregate principal amount not to exceed \$35,153,000 to finance all or a portion of the costs of each Project plus Financing Expenses (for each individual Project, the “Individual Project Bonds” or “Individual Project Notes” and, collectively, the “Individual Project Borrowing” and for all Projects, the “Project Bonds” or “Project Notes” and, collectively, the “Project Borrowings”). The Individual Project Borrowings will be identified by amount by the State Treasurer upon issuance of any Bonds or BANs.

Section 2. With respect to each Project, the Board (a) covenants to fix, revise, charge and collect dining services fees and other rates, fees and charges, for or in connection

with the use, occupation and services of such Project and (b) pledges such rates, fees and charges remaining after payment of (i) the expenses of operating such Project and (ii) the expenses related to all other activities funded by the dining services fees ("Individual Project Net Revenues") to the payment of the principal of, premium, if any, and interest on the Individual Project Borrowing relating thereto. The Board further covenants that it will fix, revise, charge and collect such rates, fees and charges in such amounts so that Individual Project Net Revenues will at all times be sufficient to pay, when due, the principal of, premium, if any, and interest on the related Individual Project Borrowing and on any other obligations secured by such Individual Project Net Revenues (such payments collectively the "Required Payments"). Each Individual Project Borrowing shall be secured on a parity with other obligations secured by the Individual Project Net Revenues relating to such Individual Project Borrowing (other than any obligations secured by a prior right in Individual Project Net Revenues). Any Individual Project Net Revenues pledged herein in excess of the Required Payments for an Individual Project Borrowing may be used by the Institution for any other lawful purpose.

Section 3. It is hereby found, determined and declared that, based upon responsible engineering and economic estimates and advice of appropriate officials of the Institution, as shown on the Financial Feasibility Study provided to the Department of the Treasury, with respect to each Project, the anticipated Individual Project Net Revenues pledged herein will be sufficient to pay the Required Payments for such Project so long as the aggregate amount of net debt service on the Individual Project Borrowing for such Project actually payable in any bond year does not exceed the amounts assumed in the Financial Feasibility Study relating thereto.

Section 4. The Board covenants that the Institution will furnish the Treasury Board its general purpose financial statements, within 30 days of their issuance and receipt, audited by a firm of certified public accountants or the Auditor of Public Accounts. If Individual Project Net Revenues for any Project are insufficient to pay Required Payments for such Project during such period, the Institution shall provide evidence of a plan to generate Individual Project Net Revenues for such Project sufficient to make such Required Payments in the future.

Section 5. The Board covenants that so long as any of the Project Notes are outstanding, the Institution will pay to the State Treasurer, not less than 30 days before each interest payment date, an amount estimated by the State Treasurer to be due and payable on such date as interest on the Project Notes. The Board covenants that so long as any of the Project Bonds are outstanding, the Institution will pay to the State Treasurer, not less than 30 days before each interest or principal payment date, the amount certified by the State Treasurer to be due and payable on such date as principal of, premium, if any, and interest on the Project Bonds.

Section 6. The Board covenants that the Institution will pay from time to time its proportionate share of all expenses incurred in connection with the sale and issuance of any series of Bonds that includes Project Bonds or Project Notes and all expenses thereafter incurred in connection with the Bonds, including without limitation the expense

of calculating any rebate to the United States of the earnings derived from the investment of gross proceeds of the Bonds, all as certified by the State Treasurer to the Institution.

Section 7. The Board covenants that the Institution will not take or omit to take any action the taking or omission of which will cause the Bonds to be “arbitrage bonds” within the meaning of Section 148 of the Internal Revenue Code of 1986, as amended, including regulations issued pursuant thereto (the “Code”), or otherwise cause interest on the Bonds to be includable in the gross income of the owners thereof for federal income tax purposes under existing laws. Without limiting the generality of the foregoing, the Institution will pay from time to time its proportional share of any rebate to the United States of the earnings derived from the investment of the gross proceeds of the Bonds.

Section 8. The Board covenants that the Institution will proceed with due diligence to undertake and complete the Projects and that the Institution will spend all of the available proceeds derived from the sale of the Project Borrowings for costs associated with the Projects and appropriated for the Projects by the General Assembly.

Section 9. The Board covenants that the Institution will not permit the proceeds of each Individual Project Borrowing to be used in any manner that would result in (a) 5 percent or more of such proceeds being used in a trade or business carried on by any person other than a governmental unit, as provided in Section 141(b) of the Code, (b) 5 percent or more of such proceeds being used with respect to any output facility within the meaning of Section 141(b)(4) of the Code, or (c) 5 percent or more of such proceeds being used directly or indirectly to make or finance loans to any persons other than a governmental unit, as provided in Section 141(c) of the Code. The Institution need not comply with such covenants if the Institution obtains the written approval of the State Treasurer and an opinion of nationally recognized bond counsel acceptable to the Treasury Board that such covenants need not be complied with to prevent the interest on the Bonds from being includable in the gross income of the owners thereof for federal income tax purposes.

Section 10. The Board covenants that for so long as any of the Bonds are outstanding the Institution will not enter into any operating lease, management contract or similar agreement with any person or entity, other than a state or local governmental unit, for all or any portion of any of the Projects without first obtaining the written approval of the State Treasurer and an opinion of nationally recognized bond counsel acceptable to the Treasury Board that entering into such agreement will not cause the interest on the Bonds to be included in the gross income of the owners thereof for federal income tax purposes.

Section 11. The Board covenants that for so long as any of the Bonds are outstanding, the Institution will not sell or dispose of all or any part of any of the Projects without first obtaining the written approval of the State Treasurer and an opinion of nationally recognized bond counsel acceptable to the Treasury Board that such sale or disposition will not cause interest on the Bonds to be included in the gross income of the owners thereof for federal income tax purposes.

Section 12. The Board hereby approves and authorizes the Vice President for Finance and Chief Financial Officer, and the University Treasurer of the Institution (the "Authorized Officers") to execute and deliver all certificates and instruments and to take all such further action as may be considered necessary or desirable in connection with the sale and issuance of the Bonds.

Section 13. The Board acknowledges that the Treasury Board will rely on the representations and covenants set forth herein in issuing the Bonds, that such covenants are critical to the security for the Bonds and the exclusion of the interest on the Bonds from the gross income of the owners thereof for federal income tax purposes, that the Board will not repeal, revoke, rescind or amend any of such covenants without first obtaining the written approval of the Treasury Board, and that such covenants will be binding upon the Board so long as any of the Bonds are outstanding.

Section 14. This resolution shall take effect immediately.

RECOMMENDATION:

That the above resolution authorizing the issuance of 9(c) bonds through the Treasury Board on behalf of the University for the Academic and Student Programs Building project be approved.

August 30, 2010

Approval of 9(d) Debt Financing Resolution

FINANCE AND AUDIT COMMITTEE

The following projects have been authorized to be financed pursuant to Section 9(d) of Article X of the Constitution of Virginia for up to \$63,000,000 plus amounts needed to fund issuance costs, reserve funds and other financing expenses:

1. Henderson Hall/Center for Creative Technologies (Project #16758): \$53,000,000

The Henderson Hall/Center for Creative Technologies project, also known as the Performing Arts Center, will construct a 71,000 gross square foot performance hall and visual arts gallery with a 1,300-seat capacity directly adjacent to Schultz Hall along North Main Street. The project will also renovate 55,000 gross square feet of Shultz Hall for multidisciplinary use by adding a creative technologies lab, a collaborative performance lab, a communications studio, and related support space. The total \$93.993 million project cost will be funded with \$53.0 million of debt and with \$40.993 million from a combination of General Fund appropriations, private gifts, and other self-generated revenues. Debt service will be paid from University comprehensive fee revenues.

2. Academic and Student Programs Building (Project #17859): \$10,000,000

The Academic and Student Programs Building project will construct a 75,000 gross square foot, three-story building on Old Turner Street between the ICTAS I Building and Randolph Hall to provide additional dining services for the north end of campus along with some additional instructional space. The two lower floors will contain approximately 800 dining seats and related food preparation space, and the third floor will contain a combination of instructional space and student support space. The Dining Services Auxiliary will issue debt for the entire building and lease the instructional component to E&G through a facilities use agreement. The \$45.153 million total project cost will be funded with \$35.153 million of 9(c) debt for the dining component and \$10.0 million of 9(d) debt for the instructional component. The proposed resolution for the \$10 million instructional portion pledges the University's general revenues to the payment of debt service, which will ultimately be paid by E&G through the facilities use agreement with Dining Services.

The bonds will be issued through the Virginia College Building Authority VCBA and the University will enter into a loan agreement and promissory note with the Authority. The loan agreement and note are subject to the following parameters: (a) the principal amount shall not be greater than the amount authorized by the General Assembly of Virginia, (b) the interest rate payable shall not exceed a true interest cost more than 50 basis points higher than the interest rate for "AA" rated securities with comparable maturities, (c) the weighted average maturity of the principal payments shall not be in excess of 20 years, (d) the last principal payment date shall not extend beyond the expected economic life of the project, and (e) the actual amount, interest rates, maturities and date shall be

approved by an authorized officer, which approval will be evidenced by the execution of the 2010 Note.

The resolution identifies (1) the Vice President for Finance and Chief Financial Officer, and (2) the University Treasurer as each being authorized to execute and deliver all certificates and instruments and to take all such further action as may be considered necessary or desirable in connection with the sale and issuance of the bonds.

RESOLUTION ON 9(d) VCBA FINANCING AUTHORIZATION

WHEREAS, pursuant to Chapter 3.2, Title 23 of the Code of Virginia of 1950, as amended (the “Act”), the General Assembly of Virginia has authorized the Virginia College Building Authority (the “Authority”) to develop a pooled bond program (the “Program”) to purchase bonds and other debt instruments issued by public institutions of higher education in the Commonwealth of Virginia (the “Institutions”) to finance or refinance the construction of projects of capital improvement specifically included in a bill passed by a majority of those elected to each house of the General Assembly of Virginia;

WHEREAS, the Authority intends to issue from time to time under the Program its Educational Facilities Revenue Bonds (Public Higher Education Financing Program) (the “Bonds”) to finance the purchase of notes and other debt instruments issued by the Institutions to finance or refinance such projects, all in the furtherance of the purposes of the Act and the Program;

WHEREAS, the Board of Visitors of Virginia Polytechnic Institute and State University (the “Board”) may from time to time wish to finance or refinance projects of Virginia Polytechnic Institute and State University (the “Participating Institution”) through the Program;

WHEREAS, if the Participating Institution wishes to finance or refinance a project through the Program, it will be necessary for the Participating Institution to enter into a Loan Agreement (a “Loan Agreement”) between the Authority and the Participating Institution and, to evidence the loan to be made by the Authority to the Participating Institution pursuant to the Loan Agreement, to issue the Participating Institution’s promissory note (the “Note”), and pursuant to Section 23-19 of the Code of Virginia of 1950, as amended, and the Loan Agreement, the Authority will agree to issue its Bonds and to use certain proceeds of the Bonds to purchase the Note issued by the Participating Institution, and the Participating Institution will agree to use the proceeds of the Bonds received from the Authority to finance or refinance the construction of the project and to make payments under the Loan Agreement and the Note in sums sufficient to pay, together with certain administrative and arbitrage rebate payments, the principal of, premium, if any, and interest due on that portion of the Bonds issued to purchase the Note;

WHEREAS, the Participating Institution now proposes to sell to the Authority one or more of the Participating Institution’s Notes to be issued under one or more Loan Agreements to finance or refinance from all or a portion of the proceeds of one or more new money Bonds issued by the Authority from time to time, with appropriate series designation depending on their issuance date, a portion of the costs of construction and/or improvements of the Henderson Hall/Center for Creative Technologies project - Capital Outlay Project Number 16758 and the Academic and Student Programs Building project - Capital Outlay Project Number 17859, (the “Projects”), which have been authorized for bond financing by the General Assembly; and

WHEREAS, it is the desire of the Board to delegate to such Authorized Officers (as hereinafter defined) of the Participating Institution the authority to approve, on behalf of the Board, the forms of such Loan Agreements and Notes and, similarly, to authorize such Authorized Officers of the Participating Institution to execute, deliver and issue in the name of and on behalf of the Participating Institution, such Loan Agreements, Notes and any and all documents necessary or desirable to effectuate the financing or refinancing of all or a portion of the costs of the Projects through the Program with the Authority and to facilitate the purchase of such Notes by the Authority.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF VISITORS OF VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY:

Section 1. The Projects are hereby designated projects to be undertaken and financed or refinanced by the Authority and, accordingly, the Vice President for Finance and Chief Financial Officer, and the University Treasurer of the Participating Institution (collectively, the "Authorized Officers"), are each hereby delegated and invested with full power and authority to approve the forms of the related Loan Agreements and Notes, and any pledge to the payment of such Notes of the Participating Institution's total gross university sponsored overhead, unrestricted endowment income, tuition and fees, indirect cost recoveries, auxiliary enterprise revenues, general and nongeneral fund appropriations and other revenues not required by law or by previous binding contract to be devoted to some other purpose, restricted by a gift instrument for another purpose or excluded from such pledge as provided in the related Loan Agreements, and such approval is hereby authorized, subject to the provisions of Section 3 hereof.

Section 2. Subject to the provisions of Section 3 hereof, the Authorized Officers are each hereby individually delegated and invested with full power and authority to execute, deliver and issue, on behalf of the Board, (a) such Loan Agreements and such Notes with the approval of such documents in accordance with Section 1 hereof by any such officer evidenced conclusively by the execution and delivery of such Loan Agreements and Notes, respectively, and (b) any and all other documents, instruments or certificates as may be deemed necessary or desirable to consummate the financing or refinancing of all or a portion of the costs of the Projects through the Program, the construction of the Projects and the Participating Institution's participation in the Program, and to further carry out the purposes and intent of this Resolution. The Authorized Officers are directed to take such steps and deliver such certificates prior to the delivery of such Notes as may be required under existing obligations of the Participating Institution, including bond resolutions relating to the Participating Institution's outstanding general revenue pledge bonds.

Section 3. The authorizations given above as to the approval, execution, delivery and issuance of the Loan Agreements and the Notes related to the Projects are subject to the following parameters: (a) the aggregate principal amount to be paid under the Notes allocable to the Projects, together with the principal amount of any other indebtedness with respect to the Projects, shall not be greater than the amount authorized for the Projects by the General Assembly of Virginia, plus amounts needed to fund issuance costs and other financing expenses, including capitalized interest, or any other increase

permitted by law, (b) the aggregate principal amount of the Notes allocable to the Projects authorized hereby and issued hereafter shall in no event exceed \$63,000,000, the aggregate amount authorized by the General Assembly for such Projects for which indebtedness has not been previously issued, as the same may be so increased, (c) the interest rate payable under each such Note shall not exceed a “true” or “Canadian” interest cost more than 50 basis points higher than the interest rate for “AA” rated securities with comparable maturities, as reported by Delphis Hanover, or another comparable service or index, on the date that the interest rates on such Note are determined, taking into account original issue discount or premium, if any, (d) the weighted average maturity of the principal payments due under each such Note shall not be in excess of 20 years, (e) the last principal payment date under each such Note shall not extend beyond the period of the reasonably expected average weighted economic life of the Projects, and (f) subject to the foregoing, the actual amount, interest rates, maturities, and date of each such Note shall be approved by an Authorized Officer, which approval will be evidenced by the execution of each such Note.

Section 4. The Board acknowledges, on behalf of the Participating Institution, that if the Participating Institution fails to make any payments of debt service due under any Loan Agreement or Note, the Program authorizes the State Comptroller to charge against the appropriations available to the Participating Institution all future payments of debt service on that Loan Agreement and Note when due and payable and to make such payments to the Authority or its designee, so as to ensure that no future default will occur on such Loan Agreement or Note.

Section 5. The Board agrees that if the Authority determines that the Participating Institution is an “obligated person” under Rule 15c2-12 of the Securities and Exchange Commission with respect to any issue of Bonds, the Participating Institution will enter into a continuing disclosure undertaking in form and substance reasonably satisfactory to the Authority and the Participating Institution and will comply with the provisions and disclosure obligations contained therein.

Section 6. This resolution shall take effect immediately upon its adoption.

RECOMMENDATION:

That the above resolution authorizing the issuance of 9(d) bonds through the Virginia College Building Authority on behalf of the University for the Henderson Hall/Center for Creative Technologies project and the Academic and Student Programs Building project be approved.

August 30, 2010

**RESOLUTION TO REAPPOINT UNIVERSITY COMMISSIONER
TO THE HOTEL ROANOKE CONFERENCE CENTER COMMISSION**

WHEREAS, the Virginia General Assembly approved legislation known as the “Hotel Roanoke Conference Center Commission Act” to provide for the establishment of a conference center commission; and

WHEREAS, the Act provides for the appointment of three commissioners each from the City of Roanoke and from Virginia Polytechnic Institute and State University; and,

WHEREAS, the Act provides that the commissioner appointments be staggered; and,

WHEREAS, the terms of the reappointments shall be four years, and shall end on June 30 of the respective year; and

WHEREAS, pursuant to the Act, the Board of Visitors of Virginia Polytechnic Institute and State University reappoints effective July 1, 2010, the following as commissioner:

- Vice President for Outreach and International Affairs, June 30, 2014
Virginia Tech

NOW, THEREFORE, BE IT RESOLVED, that the appointment of the Vice President for Outreach and International Affairs shall continue effective July 1, 2010, with the approval of this resolution.

RECOMMENDATION:

That the above resolution of the reappointment of the Vice President for Outreach and International Affairs as the university’s representative on the Hotel Roanoke Conference Center Commission be approved.

August 30, 2010

**RESOLUTION FOR ESTABLISHMENT OF
VIRGINIA TECH TECHNOLOGY SERVICES AND OPERATIONS CORPORATION**

WHEREAS, high performance computing, communications, and information technology capabilities in advance of commercially available products and services are critical for the strength and competitiveness of Virginia Tech's research and education programs and the competitiveness of Virginia businesses; and

WHEREAS, effective use of underlying communications and computing systems creates opportunities to invent systems and technologies and to develop high performance applications for University educational, outreach and research programs; and

WHEREAS, Virginia Tech seeks opportunities to derive increased benefits from investments in information technology facilities and support services; and

WHEREAS, performing state-of-the-art information technology services and operations often present many opportunities for the development of experimental, innovative, and technically sophisticated services; and

WHEREAS, the University wishes to provide increased opportunities for applied experiences in research and development for both graduate and undergraduate students on specific information technology-related activities of interest to the private sector and of benefit to the public sector; and

WHEREAS, the University desires to create the Virginia Tech Technology Services and Operations Corporation as a university-related corporation to manage strategic emerging technologies and services with the potential to scale beyond serving only Virginia Tech, with the potential to attract external public and private partners, or with the potential to spin-out as independent entities - where any of these options have a significant potential return or advantage to this university; and

WHEREAS, the corporation's relationship to the University will be governed by an affiliation agreement, which is attached for review and approval by the Board of Visitors;

NOW, THEREFORE, BE IT RESOLVED that the Board of Visitors authorizes, at the President's discretion, the establishment of the Virginia Tech Technology Services and Operations Corporation as a university-related corporation and approves the affiliation agreement thereof with the University.

RECOMMENDATION:

That the resolution authorizing, at the President's discretion, the establishment of the Virginia Tech Technology Services and Operations Corporation as a university-related corporation and the affiliation thereof with the University be approved.

August 30, 2010

AFFILIATION AGREEMENT BETWEEN
VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY
AND
VIRGINIA TECH TECHNOLOGY SERVICES AND OPERATIONS CORPORATION

THIS AFFILIATION AGREEMENT, dated as of _____, is by and between VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY, a Virginia public corporation (the "UNIVERSITY"), and Virginia Tech Technology Services and Operations Corporation, a Virginia non-stock corporation (the "CORPORATION").

RECITALS

1. The University recognizes the contribution the Corporation will make to the University's missions and goals and, therefore, the University is willing to be affiliated with and provide certain benefits to the Corporation. Such action shall not, however, be construed to mean that the Corporation is part of or controlled by the University; that the University is responsible for the Corporation's contracts or other acts or omissions; or that the University approves of the Corporation's activities.
2. The purpose of this Agreement is to describe the entire relationship between the University and the Corporation, including the University benefits the Corporation may receive and the conditions for their receipt.

Accordingly, the parties agree as follows:

a. Representations

- 1) The Corporation represents that it is a Virginia non-stock corporation in good standing with the Virginia State Corporation Commission. The Corporation will provide the University a copy of its current articles of incorporation, bylaws and all future amendments, a list of all directors, administrators and offices, their addresses and phone numbers, and any changes made to this list.
- 2) The Corporation further represents that the officers and board members of the Corporation were provided a copy of this Agreement and they authorized the person executing this Agreement on behalf of the Corporation to execute this Agreement.

b. Relationship between the Corporation and the University

The University is a Virginia public corporation and the Corporation is not part of that corporation, but rather exists and operates independently, and for the benefit of, the University.

The Corporation is required to distribute to the University or its designee, on a regular basis, any surplus revenues as determined in conjunction with the Chief Financial Officer of the University or any successor thereof.

Annually, prior to consideration by its Board of Directors, the Corporation shall review its annual operating budget, capital budget, long-term program plans, and intended distribution of surplus with the University's designee.

The Corporation agrees that, without the prior written consent of the University President, it will not distribute any assets or proceeds thereof, other than in the ordinary course of business, to any entity or person other than the University or its designee.

The Corporation shall convey to the University upon written request of the Board of Visitors, any interest in real property owned by the Corporation, which real property is and shall be indirectly owned by the University.

The Corporation shall provide a benefits and compensation plan for its employees that as nearly as practicable matches that of the University.

The President of the University shall designate a person to be elected as a director and member of the Executive Committee of the Corporation.

The parties understand and agree that this Agreement is the only source of control the University may have over the Corporation or its activities, except to the extent, if any, the University chooses to exercise control over activities occurring on its property and as provided in the governing documents of the Corporation.

c. Fundraising Activities

The Corporation agrees not to conduct fundraising activities without the prior written consent of the University, provided that the solicitation of research grants and contracts by the Corporation shall not be considered fundraising activities for purposes of this Agreement.

d. The Corporation's Dealings with Third Parties

The Corporation shall not hold itself out as being part of, controlled by, or acting on behalf of the University. The Corporation agrees to take reasonable measures to ensure that third parties understand that it is not part of the corporation which is the University. With respect to advertising, publicity, correspondence, contracts, and other formal means of communication, the Corporation will use its full corporate name to avoid confusion on the part of the third parties.

e. Tax Matters

The Corporation shall prepare and timely file all tax returns and reports, including information returns required to be filed by it under federal, state and local laws. The Corporation will promptly advise the University in the event of any audit of its tax returns or reports by any governmental entity. The Corporation shall not use the University's taxpayer identification number or the University's tax-exempt status in connection with purchases or sales by the Corporation, gifts to the Corporation, interest or other income of the Corporation, or any other activity of the Corporation.

f. Liability Insurance and Defense

The Corporation understands and agrees that the University, the Commonwealth of Virginia, and the employees and agents of either will not be liable for any of the Corporation's contracts, torts, or other acts or omissions, or those by the Corporation's directors, officers, employees or staff, provided that the limitations of liability provided herein shall not apply to faculty and staff of the University acting within the scope of their employment with the University. The Corporation understands and agrees that neither it nor its directors, officers, employees or staff are protected by the University's or the Commonwealth of Virginia's insurance policies or self-insurance plans in connection with the Corporation's activities, and the University and the Commonwealth will not provide any legal defense for the Corporation or any such person in the event of any claim against any of them, provided that the limitations of liability provided herein shall not apply to faculty and staff of the University acting within the scope of their employment with the University.

g. Non-Discrimination

The Corporation agrees to follow the University's Equal Opportunity and Affirmative Action Statement.

h. Charges for Services

The Corporation agrees to reimburse the University upon request for the costs of services provided. To the extent that a rate schedule exists for these services, the Corporation will be charged at the appropriate rate. To the extent there is no rate schedule charge set for a service, the Corporation will be charged a rate to be mutually agreed on by the University and the Corporation based on a cost study to be conducted by the University Controller's Office.

i. Use of Facilities, Resources and Services

The University hereby makes the Corporation eligible to use the University's facilities, resources and services, subject to availability and the policies and procedures of the University applicable to such facilities, resources and services.

j. Audit

The Corporation shall have an annual audit performed by an independent auditor and shall provide copies of its IRS form 990 or 990T, financial statements, management letter, and management response produced in connection with the audit to the President of the University. The Corporation agrees to participate in the university-related corporation internal audit program. All costs of both the annual audit and the internal audit work performed for the Corporation shall be paid by the Corporation. The Corporation will be exempted from the requirement for annual external audit provided that:

- the Corporation has not held any financial assets for the twelve month period preceding the fiscal year ending date,
- the officers of the Corporation certify annually that no financial activities or transactions have occurred or are occurring outside those reflected in the records of the Corporation,
- on an as needed basis, the Corporation agrees to provide as a supplement to its annual financial statements, separate unaudited financial schedules providing information on the activities of the Corporation recorded in its records, and
- the Corporation continues to participate in the university-related corporation internal audit program.

k. Subsidiary Corporations

The provisions of this agreement shall be applicable to any subsidiary corporations and limited liability companies of the Corporation. Approval of the University's Board of Visitors is required for the establishment of University-related corporations.

l. Dissolution

If the University, acting at the direction of its Board of Visitors, shall request in writing, the Corporation agrees to timely cease all operations and take all appropriate actions to dissolve the Corporation. In the event of such dissolution or final liquidation of the Corporation, (a) none of the property of the Corporation or any proceeds thereof shall be distributed to or divided among any of the officers or directors of the Corporation or inure to the benefit of any individual; and (b) after all liabilities and obligations of the Corporation have been paid, satisfied, and discharged, or adequate provision made thereof, all remaining property of the Corporation and the proceeds thereof shall be distributed by the Board of Directors of the Corporation to the University or its designee, provided such designee is an organization or organizations that is (are) qualified under Section 501(c)(3) and 170(c)(2)(B) of the Internal Revenue Code of 1986, as amended.

m. Term and Termination of Agreement

This Agreement shall become effective as of the date written below and shall expire on June 30, 2013, but it will remain in effect past the expiration date unless (i) terminated by the University, with or without cause, at any time by written notice to the Corporation, (ii) terminated by mutual written agreement of the parties, or (iii) replaced by a new agreement.

n. Waiver

Failure of either party to enforce any of the provisions of this Agreement shall not be construed as a waiver of that, or any other, provision or any later breach thereof.

o. Notices

Any notice under this Agreement shall be deemed given when deposited in the mail, postage prepaid, and addressed as follows:

If to the Corporation:

If to the University:

University Treasurer
Virginia Tech
902 Prices Fork Road (0142)
Suite 4000
Blacksburg, Virginia 24061

or to such other person, at such addresses, as either party may designate for itself and so notify the other party in writing.

p. Entire Agreement; Amendments.

This Agreement constitutes the entire agreement between the Corporation and the University concerning the subject matter, and it supersedes all prior written or oral agreements concerning this subject matter. This Agreement may not be amended except by written document executed by both parties.

IN WITNESS THEREOF, the parties have executed this Agreement below:

VIRGINIA TECH TECHNOLOGY
SERVICES AND OPERATIONS
CORPORATION

By: _____

(Authorized Officer)

Title: _____

Date: _____

VIRGINIA POLYTECHNIC INSTITUTE
AND STATE UNIVERSITY

By: _____

(Authorized Officer)

Title: _____

Date: _____

Committee Minutes

Committee on Research

**Smithfield Room
The Inn at Virginia Tech and Skelton Conference Center
4:30p.m-5:30p.m.**

August 29, 2010

Committee Members Present:

Ms. Michele Duke, Chair
Mr. Mr. Michael Anzilotti
Mr. William B. Holtzman
Ms. Sandra Stiner Lowe
Mr. George Nolen
Mr. Michael J. Quillen

Guests:

Dr. Charles Steger, Dr. Robert Walters, Mr. Dwight Shelton, Jr., Dr. John Dooley, Dr. Daniel Wubah, Dr. Erv. Blythe, Mr. Sherwood Wilson, Mr. Deepu George, Mr. Douglas Fahl, Mr. John Rocovich, Mr. James Severt, Mr. Paul Rogers, Ms. Beverley Dalton, Mr. Frederick Cobb, Ms. Suzanne Obenshain, Ms. Maxine Lyons, Dr. Michael Friedlander, Dr. Michael Ellerbrock, Mr. Larry Hincker, Mr. Ralph Byers, Dr. Roderick Hall, Dr. William Knocke, Dr. Kevin Davy, Ms. Kay Heidbreder, Ms. Kim O'Rourke, Ms. Beth Tranter, Ms. Sandra Muse, and Ms. Susan Trulove.

1. **Opening Remarks and Approval of March 21, 2010 Minutes.** Chairman Duke welcomed those in attendance. The minutes were approved as printed.
2. **Resolution for the Approval of Appointments to the Virginia Coal and Energy Research and Development Advisory Board.** Ms. Duke reported that the Board of Visitors has the responsibility to appoint members to the Virginia Coal and Energy Research and Development Advisory Board. Mr. J. Michael Onifer and Mr. Peter Su have been nominated for appointment as members for the period 2010-2013; and Mr. Jerry Grantham and Ms. Lisa Johnson be appointed as members for the period 2010-2014; and that Mr. Jerry A. Bridges be reappointed as a member for the period 2010-2013. A motion was made and seconded recommending these individuals for approval by the Board of Visitors. The motion was passed unanimously.
3. **Virginia Tech Research Performance Update.** Dr. Walters reported on year-end sponsored research statistics. Research expenditures continue to grow and are on track to exceed the goal of \$540 million in NSF research by 2012. The growth of

Virginia Tech's research expenditures compares favorably in comparison with peer institutions.

Virginia Tech has made substantial investments in research infrastructure, faculty, equipment, organized research units and other areas critical to the growth of the research enterprise. The impact of research investments are not realized within a single fiscal year, but are rather demonstrated in later years.

Dr. Walters presented an overview of projected growth of university research institutes during the next five years.

4. **VT Carilion Research Institute (VTCRI).** Dr. Michael Friedlander reported on goals and strategies for research growth during the next five years. Key points of the plan were as follows:

The VTCRI will provide a rich environment for tomorrow's leaders in academic medicine, biomedical scientific research and scientifically based medical practice.

Growth of the VTCRI will position VT to gain unrealized market share of extramural support for biomedical science.

A goal is recognition of VTCRI as among nation's leading research centers in at least 3 major areas of national health emphasis.

Within five years, it is anticipated that 25 research teams will be in place.

5. **Remarks from the President.** Dr. Steger noted that tomorrow's full board meeting will include a resolution to the board to request a Health Sciences Division of the University. This structural configuration is designed to facilitate the university's successful pursuit of research goals. Achievement of research goals will require rebuilding the faculty positions as well as strategic investments in areas such as health and cybersecurity.

Adjournment.

There being no further business, the meeting adjourned at 5:41 p.m.

The background of the slide features a photograph of a large, leafy green tree in the center, partially framed by a large, light-colored stone archway on the right side. The sky is blue with some light clouds. The overall scene is bright and sunny.

Virginia Tech Research Performance Update

Robert Walters, Vice President for Research

Overview

- Annual Report Outputs
- Virginia Tech Investments in Research
- Five-year Projection – Institute-based Research Growth
- Dashboard Tool Development for Research Tracking

Virginia Tech Research - Annual Report Outputs



Background

Research expenditures can be divided between . . .

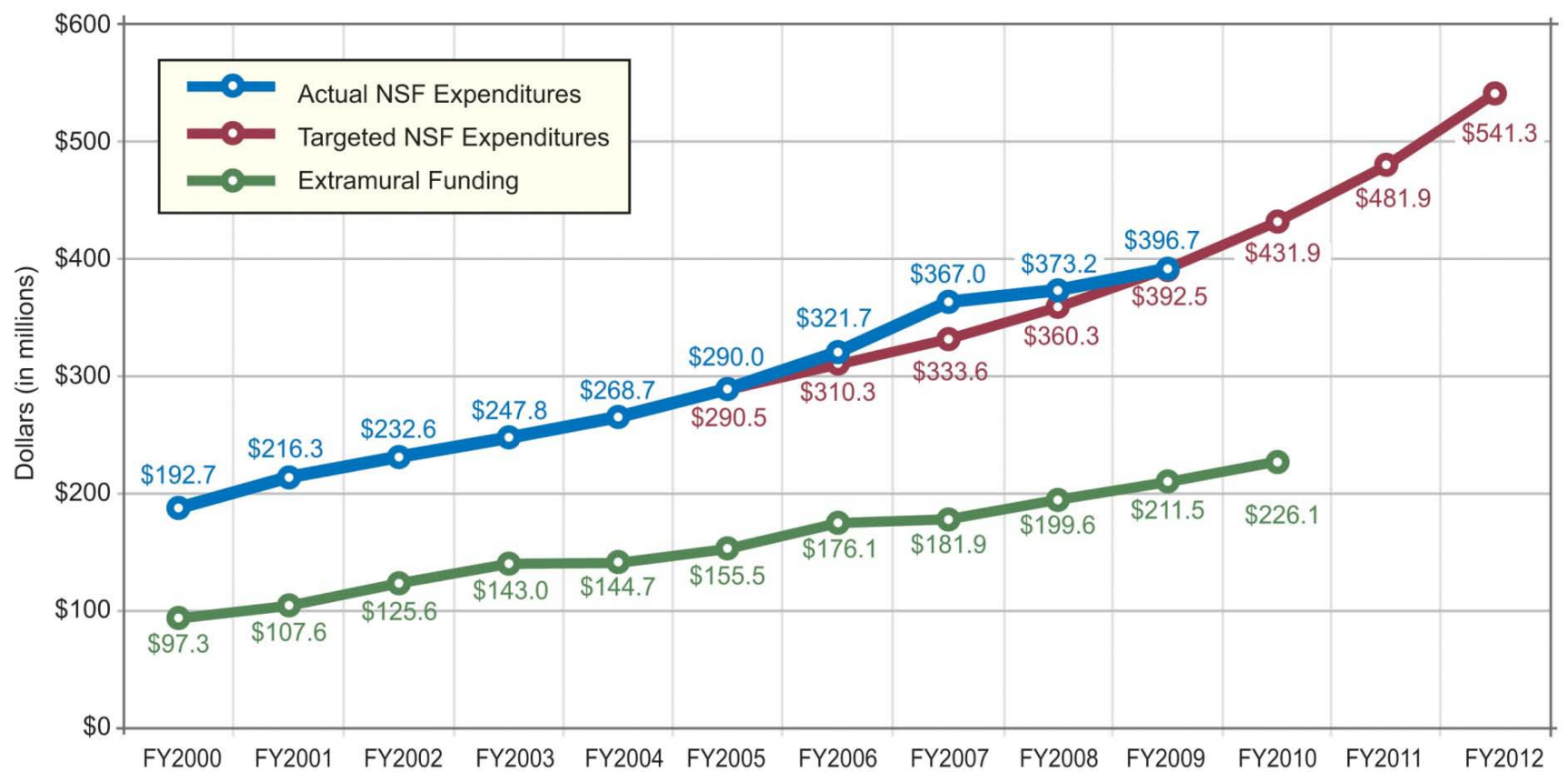
External expenditures:

Cash receipts from outside the university

Internal expenditures:

Monies that are counted per NSF guidelines in the annual report of research expenditures, but do **not** qualify as external expenditures

Progress toward Strategic Plan goal of \$540M in NSF Research

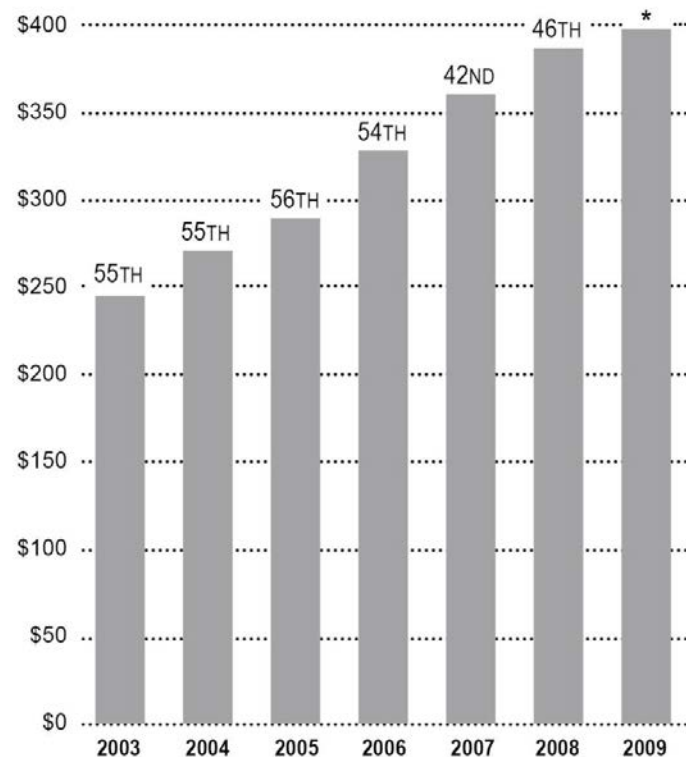


NSF Ranking 2003-2009

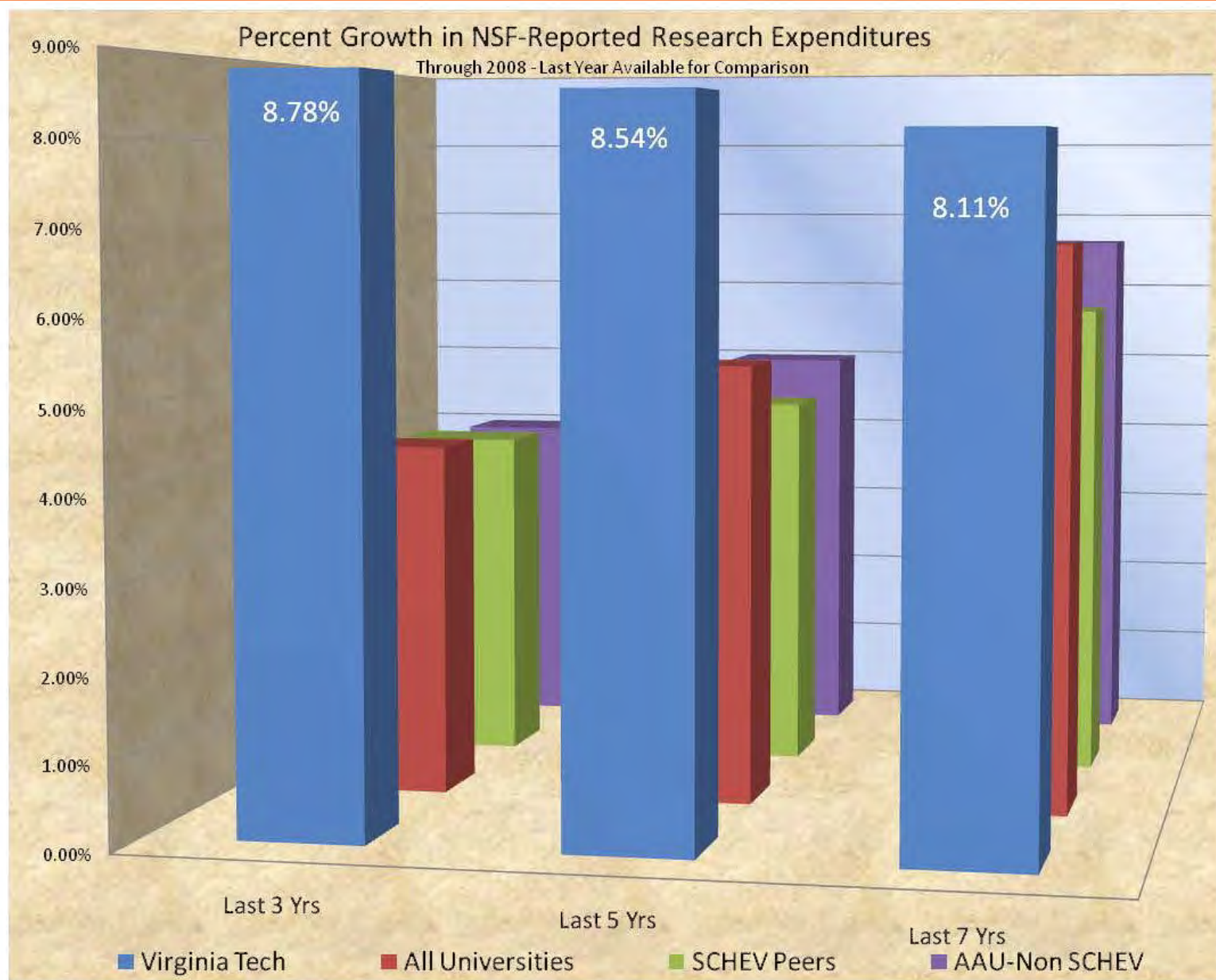
- Ranking lags expenditure report
- 600 universities ranked
- We continue to make progress toward our goal of \$540M by 2012, regardless of ranking

NSF EXPENDITURES 2003-2009

(Dollars in Millions)

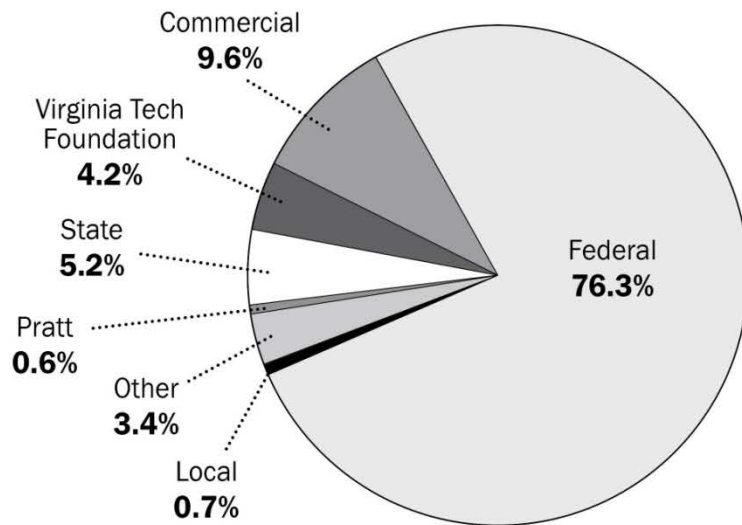


**ranking has not been released*

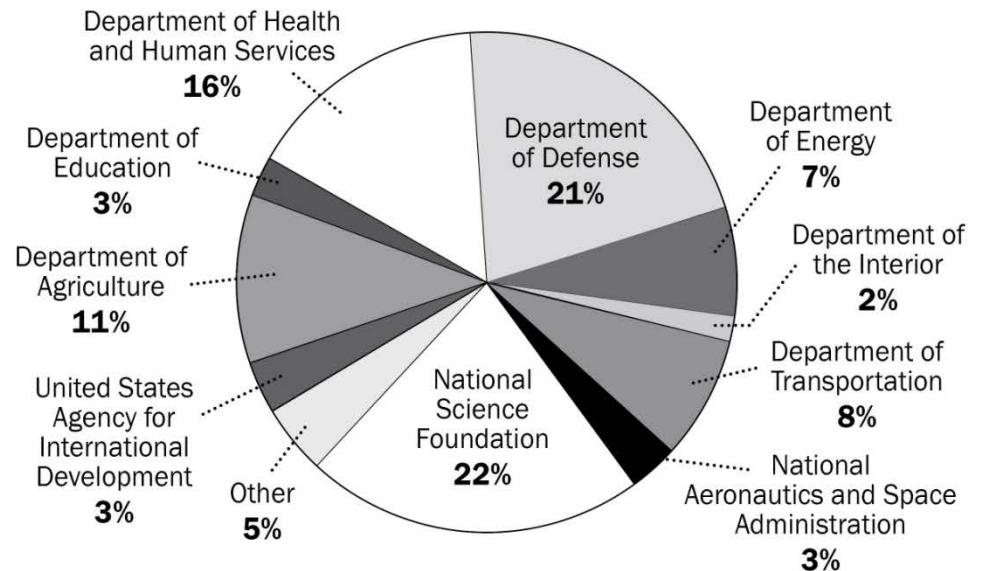


Overview of Funding Sources for Sponsored Expenditures

FY2010 SPONSORED PROGRAM EXPENDITURES FROM ALL SOURCES



FY2010 SPONSORED EXPENDITURES FROM FEDERAL SOURCES



American Recovery and Reinvestment Act

- \$34,561 million awarded to Virginia Tech as of June 30, 2010 for 91 grants
 - 47 NSF-funded projects
 - 15 NIH-funded projects
 - 4 Department of Energy
 - 2 Department of Justice
 - 1 Department of Commerce
 - 1 Department of Defense
 - 1 National Park Service
 - 24 subawards

*Wu Feng,
associate
professor of
ECE and CS,
received a \$2M
NSF Major
Research
Instrumentation
award to
develop
Hokie Speed*



Factors responsible for growth

Long-term success is due to:

- Emphasis by university on growth and goals consistent with the strategic plan
- Internal investment in institutes that have leveraged productivity of faculty members
- Increased number of tenure track faculty engaged in research as university has experienced attrition

Factors responsible for growth

Short-term success is due to:

- American Reinvestment and Recovery Act funding of \$34.5M
- VBI award of \$27 by Bruno Sobral counted in one year
- Two large awards for S.K. DeDatta's group (to be counted over multiple years)

Virginia Tech Investments in Research



Overview of Research Investments

- Facilities
- Faculty
- Policy
- Staffing and Operations
- Support Programs
- Infrastructure
- Equipment
- Organized Research Units
- Strategic Partnerships
- Strategic Focus

Facility Investments

	<u>Budget</u>	<u>GSF</u>
Capital Projects	\$283,249,225	657,926
Corporate Research Center - CCA-2	33,000,000	162,000
Ballston Research Facility	<u>85,000,000</u>	<u>144,000</u>
Subtotal	401,249,225	963,926
Planning Projects	<u>153,900,000</u>	<u>250,200</u>
GRAND TOTAL	<u><u>\$555,149,225</u></u>	<u><u>1,214,126</u></u>

Faculty Investments

- Faculty start-up packages
 - \$32 million to leverage \$72 million over 8 years
 - 435 Tenure Track Faculty
- Cluster hires
 - Interdisciplinary
- Support
 - Administrative Clerical Support - \$1 million

Technology Investments

- Research Equipment
- Information Technology
 - High Performance Computing
 - Data storage
 - Advanced Networking
- Vivarium

Institute- Based Research Growth



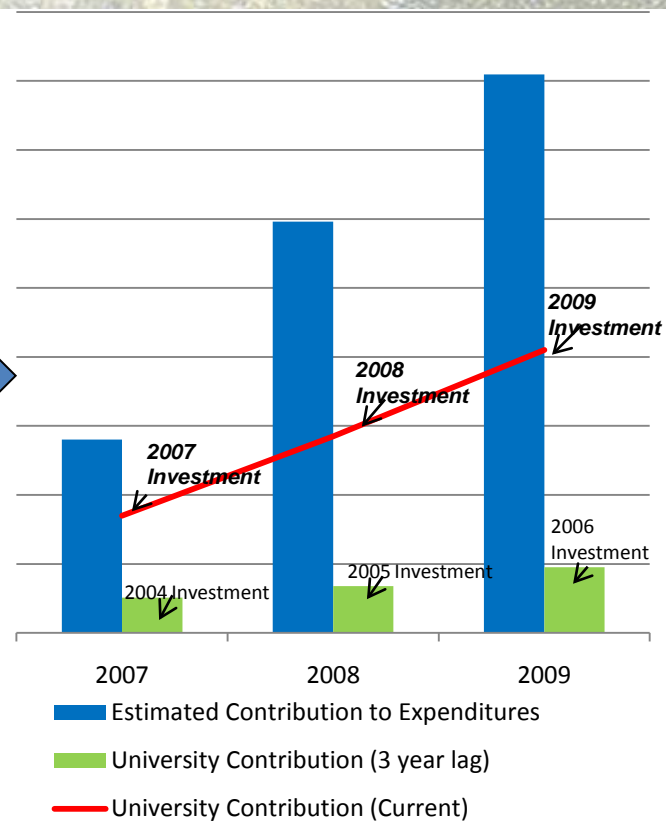
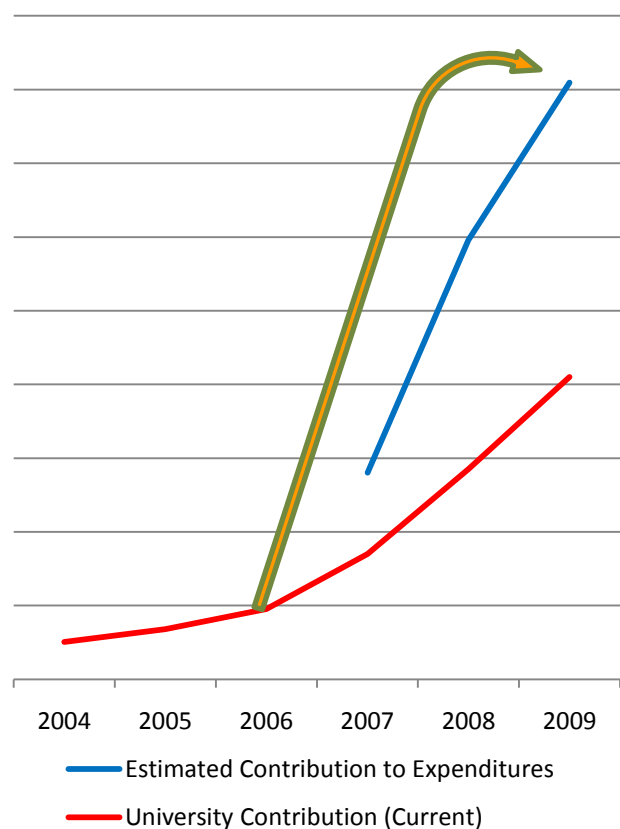
Types of Institutes

- Two types
 - Discipline institutes, e.g., VTTI
 - Investment institutes, e.g., ICTAS
- Institutes are at various stages of development

Comparing Productivity Versus Investment

- Investments in research organizations do not yield immediate increases in expenditures
- Analysis has shown that three years is a reasonable expectation for returns
- For an organization which has received increased investments over a short period of time, dividing current-year expenditures by current-year investments under-reports the relative productivity

3-year Lagging Analysis Helps Correct this Under-Reporting



Institute Investments (2010)

- \$3.5M Virginia Tech Transportation Institute (VTTI)
- \$8.6M Virginia Bioinformatics Institute (VBI)
- \$7.8M Institute for Critical Technology and Applied Science (ICTAS)
- \$1.6M Fralin Life Science Institute
- \$0.7M Institute for Society, Culture and Environment (ISCE)

Growth in Extramural Funding for Research Institutes

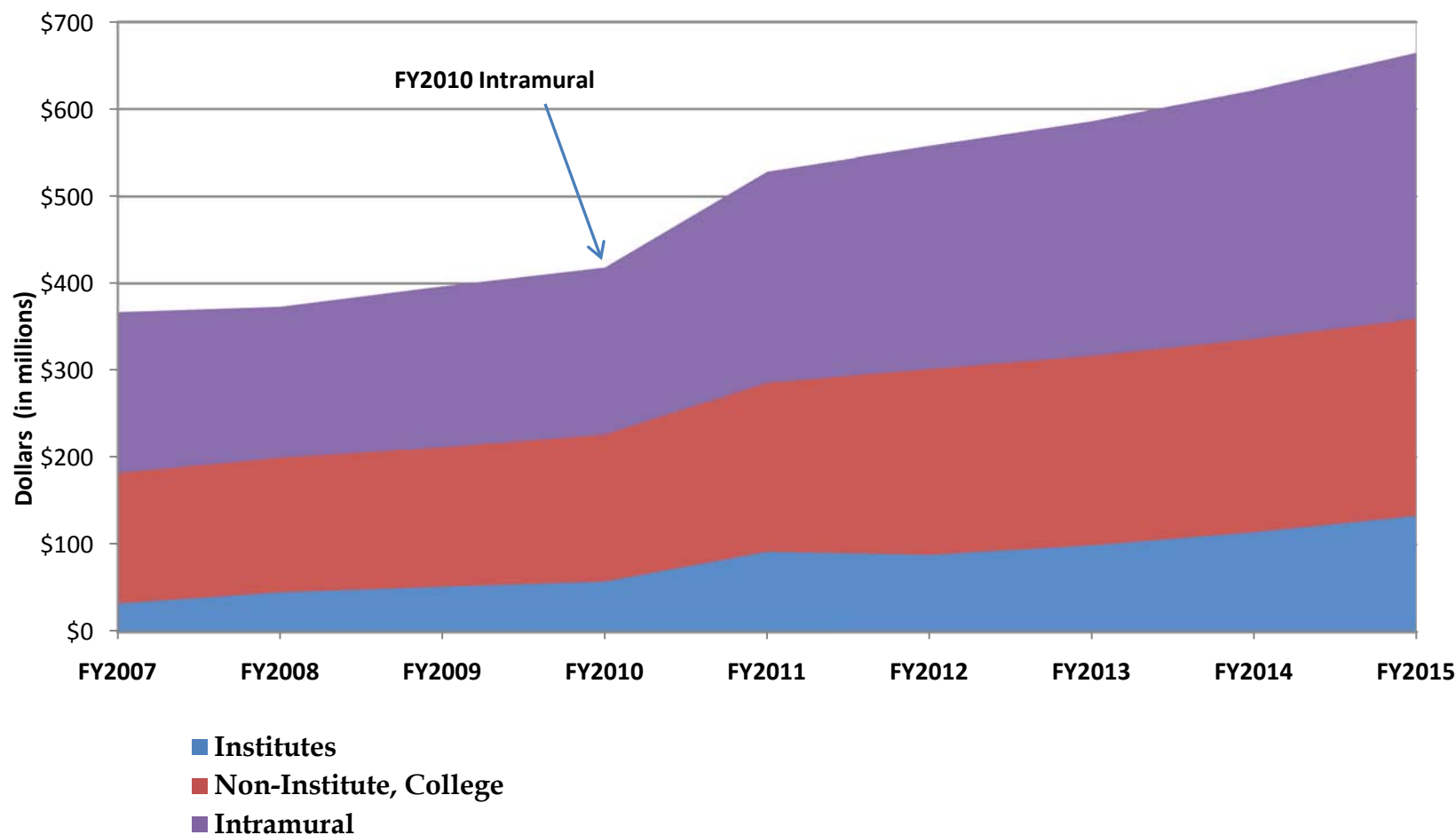
Assumes Stable or Previously Authorized Budgets

	Actual				Projected				
	FY2007	FY2008	FY2009	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015
ICTAS	\$ 5.6	\$ 11.9	\$ 16.1	\$ 20.0	\$ 23.0	\$ 26.5	\$ 30.4	\$ 35.0	\$ 40.2
ISCE		\$ 0.3	\$ 0.6	\$ 1.0	\$ 1.0	\$ 1.0	\$ 1.0	\$ 1.5	\$ 1.5
FRALIN	\$ 0.4	\$ 2.9	\$ 3.2	\$ 4.0	\$ 5.0	\$ 5.0	\$ 5.0	\$ 6.0	\$ 6.0
VBI	\$ 14.9	\$ 14.3	\$ 17.0	\$ 15.3	\$ 16.0	\$ 16.0	\$ 16.0	\$ 16.0	\$ 16.0
VTCRI					\$ 21.0	\$ 16.7	\$ 22.4	\$ 28.8	\$ 39.7
VTTI	\$ 11.6	\$ 15.9	\$ 14.9	\$ 17.4	\$ 26.0	\$ 23.3	\$ 24.6	\$ 27.1	\$ 29.8
Institutes	\$ 32.5	\$ 45.3	\$ 51.8	\$ 57.7	\$ 92.0	\$ 88.5	\$ 99.4	\$ 114.4	\$ 133.2
Non-Institute, College	\$ 149.4	\$ 154.3	\$ 159.7	\$ 168.4	\$ 193.7	\$ 213.0	\$ 217.3	\$ 221.6	\$ 226.1
Extramural	\$ 181.9	\$ 199.6	\$ 211.5	\$ 226.1	\$ 285.7	\$ 301.5	\$ 316.7	\$ 336.0	\$ 359.3
Intramural	\$ 185.1	\$ 173.6	\$ 185.2	\$ 192.2	\$ 242.8	\$ 256.3	\$ 269.2	\$ 285.6	\$ 305.4
NSF Reported	\$ 367.0	\$ 373.2	\$ 396.7	\$ 418.3	\$ 528.5	\$ 557.7	\$ 585.9	\$ 621.6	\$ 664.7

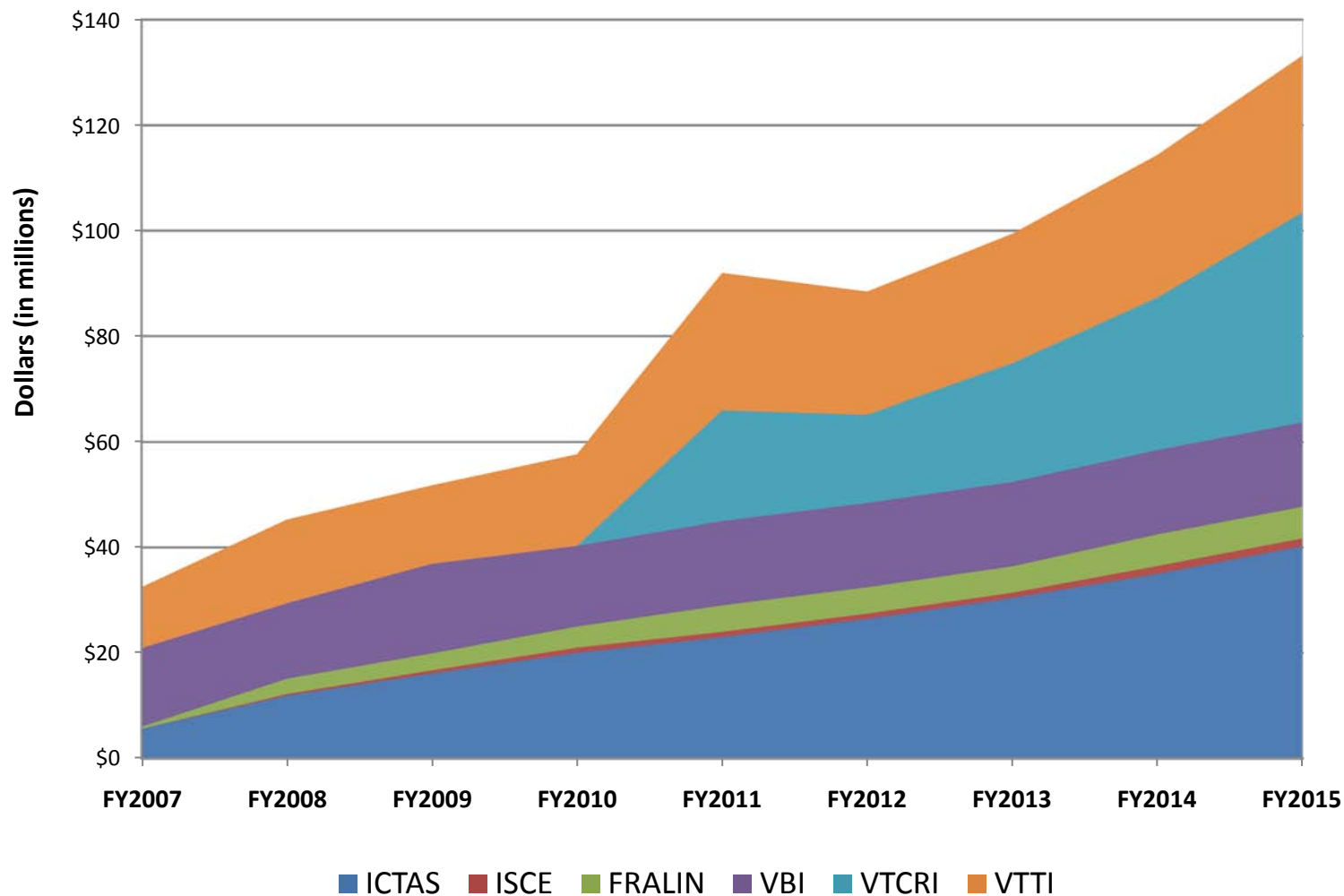
Notes: 1) Growth rate for "Non-Institute, College" is projected to be 15% in FY '11 and 10% in FY '12 as the Recovery Act awards are spent. (This reflects a growth of 33% in awards in FY '10). Growth after that is a modest 2% since the Recovery Act funding is creating a peak that will be difficult to sustain.

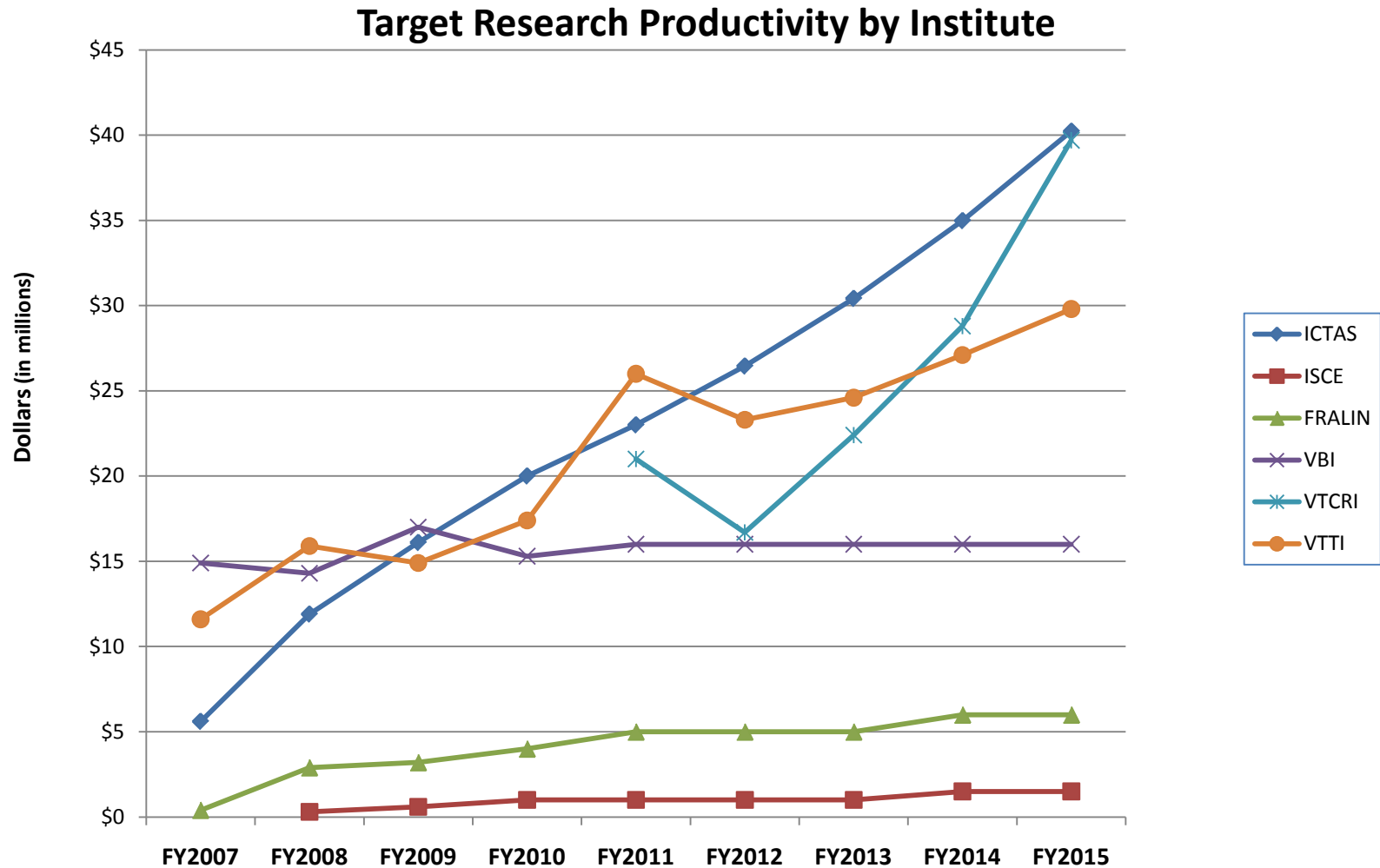
2) The ratio of "Total NSF Reported" funding to "Total Extramural Funding" is shown to remain steady over the period at 1.85. This will be buoyed by internal investment in the Virginia Tech Carilion Research Institute.

Research Productivity (as reported to NSF) FY2007 - FY2015



Target Research Productivity by Institute





Dashboard Tool for Research Tracking



Benefits of University Research

- Instruction and Economic Development
- Undergraduate Research Opportunities
- Job Creation and Student Support
- Brand
- State Support and Compensation Levels
- Economies of Scale
- Disclosures, Patents, and Licenses
- Ranking

Objectives

- Develop real-time tracking tool for research investments
- Online interface will allow senior management and institute management to track progress toward goal
- Develop comprehensive strategy and model for measuring progress of investment vs. discipline institutes
- Develop system of performance indicators for scholarly and financial performance of research institutes
- Develop cross-cutting and institute-specific metrics based on unit goals

Wireframe model

[VT Research Performance Dashboard Tool](#)

Questions?

VTCRI

A biomedical research partnership between Virginia Tech and the Carilion Health System

**Board of Visitors Meeting
August 29, 2010**

**Presented by: Michael J. Friedlander, Ph.D.
Executive Director
Virginia Tech Carilion Research Institute
Professor of Biological Sciences
Virginia Tech
friedlan@vt.edu**

Virginia Tech, Carilion
Hospital/Clinics, Roanoke and
Valley Region – partnership for
health and biomedical research,
education and training



AAMC-HHMI

Scientific foundations for future physicians

2009

A report on the work of SFFP committee



https://services.aamc.org/publications/showfile.cfm?file=version132.pdf&prd_id=262&prv_id=321&pdf_id=132

Future role of science in medicine

- likely to be more important than in the 20th century
- genetics, genomics, proteomics, polygenic/multifactorial diseases, biological basis of complex behaviors and behavioral disorders;
- informatics, critical reasoning skills, life-long learners, discern "pitch" vs. information; going beyond algorithmic thinking, dealing with unexpected;
- understanding how data are obtained and analyzed, ability to evaluate competing claims, evidence-based medicine;
- differentiates the allopathic physician from other healthcare providers; enables leadership in team medicine;
- provides for public trust; competency to explain scientific rationale for diagnosis and treatment to patients

General Goals for the VTCRI:

- **Build a premiere interdisciplinary biomedical research unit working at the leading edge of basic and translational medical science**
- **Position VT to gain unrealized market share of extramural support for biomedical science**
- **Earn recognition of VTCRI as among nation's leading research centers in at least 3 major areas of national health emphasis**
- **Provide a rich environment for tomorrow's leaders in academic medicine, biomedical scientific research and scientifically based medical practice**

Specific Goals for the VTCRI:

- **Recruit at least 25 research teams over 5 years**
- **Identify and recruit a mix of established senior and promising junior investigators as team leaders**
- **Provide superior resources and infrastructure to enable the research teams to apply the most current contemporary and future leading edge technology**
- **Incentivize and reward discovery, interdisciplinary research and grant success**
- **Provide home for interdisciplinary graduate training in areas where VT is absent**
- **Capitalize on and nurture the unique resources of the Carilion Health System**
- **Make quantitative, computational and informatic approaches central to all VTCRI research programs**

Strategy for Development of Research and Training Programs at VTCRI

- Define focus areas – need, opportunity, potential to make a difference, be the best;
- Identify established and emerging talent in multiple “wet” and “dry” disciplines – integrate computation and informatics at all levels;
- Provide leading-edge resources and infrastructure for bench based animal model research, patient based research and population research

Evaluation of outcome effectiveness
Clinical care

Disease
prevention
(healthy lives)

Diagnosis
(of disease and risk)

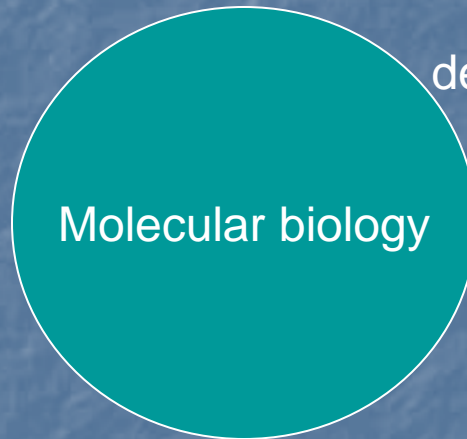
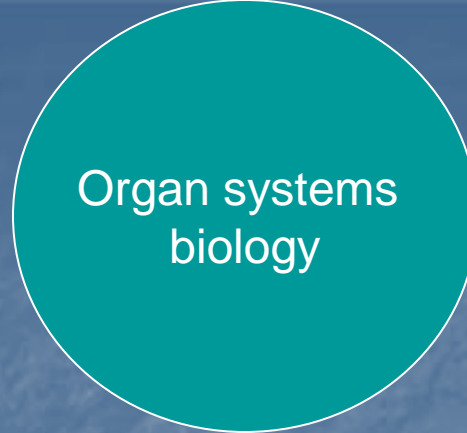
New treatments
and cures

genetics/epigenetics
(human and animal model)

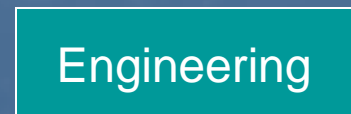
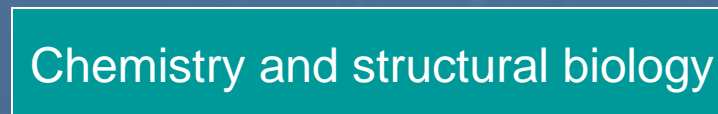
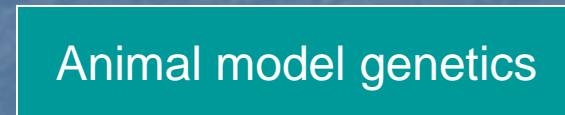
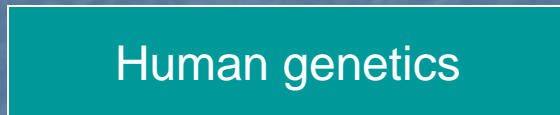
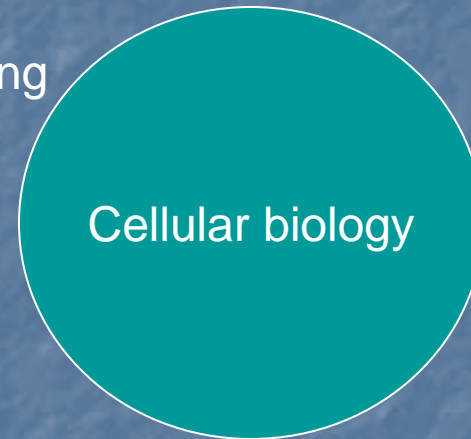
behavior/decision-making

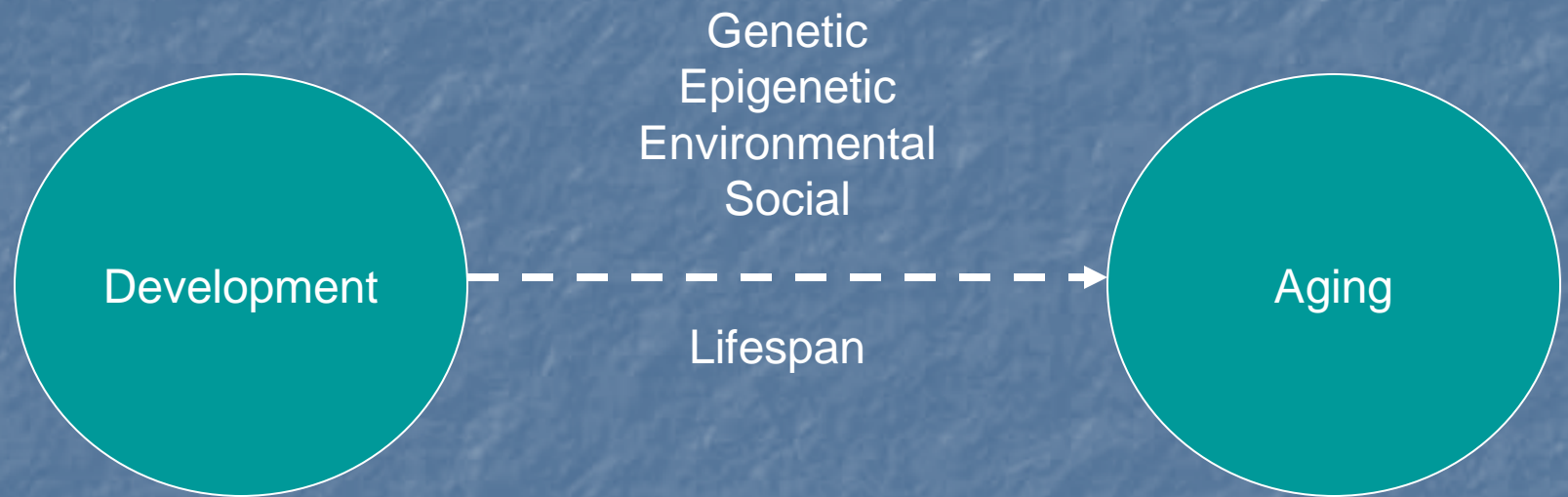
environment (in utero,
childhood, lifespan)

Common planned VTCRI platforms for research in major focus areas of public health: addiction and substance abuse, cancer, cardiovascular disease, degenerative disorders of aging, diabetes, infectious diseases, injury (including TBI), inflammation, mental illnesses, obesity and metabolic syndrome, stroke.

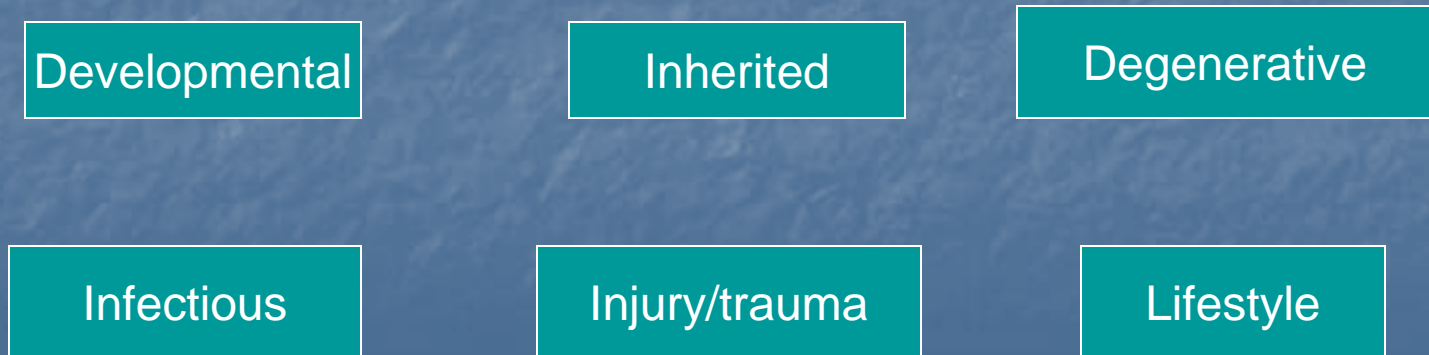


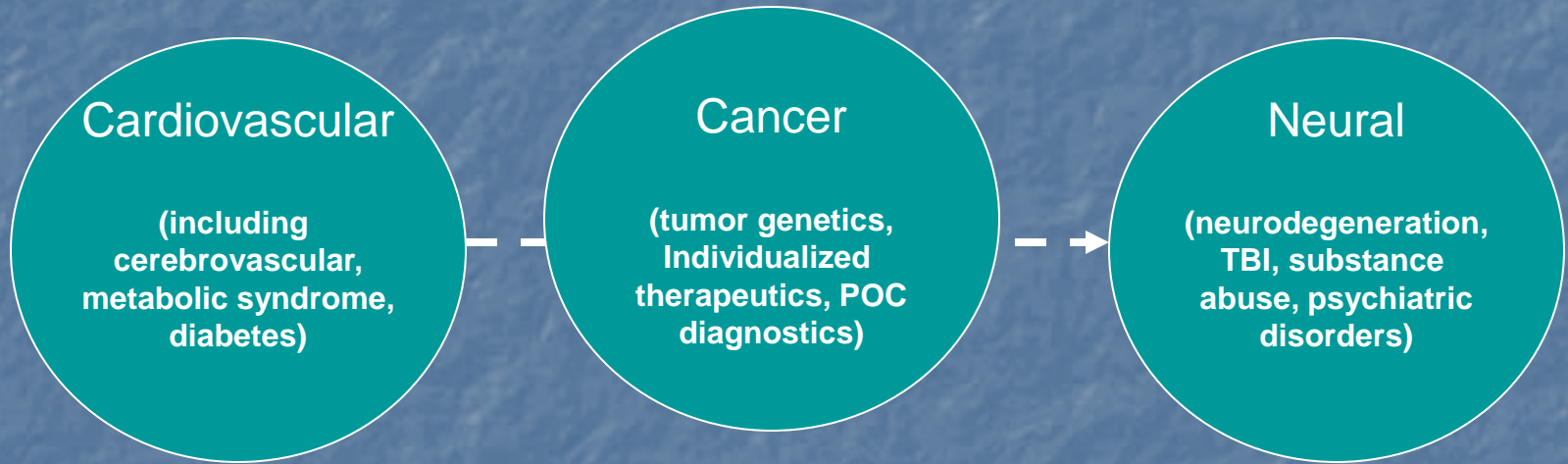
Behavior,
decision-making





Targeted classes of Disorders





Infectious diseases

Inflammation

Regenerative medicine

Imaging (all levels
-molecular to cellular
to whole organ/organism –
animals and humans)

Bioengineering –
materials,
biological -
machine interfaces,
nanotechnology,
molecular design

Genomics,
proteomics, metabolomics,
computation and informatic
approaches

Behavioral, economic and
social cognition approaches
to the study of decision-
making

Incidence and costs of major disorders in US

	annual new cases	Economic cost - \$/year (direct medical + indirect)
all cancers	1.4 million	\$206 billion
heart disease	6.4 million	\$175 billion
brain disorders	8.0 million	\$995 billion

Sept 1 – Dec. 1, 2010

**5 neuroscience research teams with group leader VT
faculty appointments in Biological Sciences, Biomedical
Engineering, Physics and Psychology**

Current grant portfolio - 9 NIH, 2 DoD, 2 VA, 2 foundation

**Research focus areas - behavioral science (including
decision making), functional human neuroimaging,
cellular neurobiology and imaging, computational
biology, informatics**

Incidence and costs of major disorders in US

	annual new cases	Economic cost - \$/year (direct medical + indirect)
all cancers	1.4 million	\$206 billion
heart disease	6.4 million	\$175 billion
brain disorders	8.0 million	\$995 billion
TBI alone	1.5 million	\$159 billion

Brain Injury-the silent public health epidemic

- Brain injuries account for most ER/Dr. visits (falls, car crashes)
- Annual incidence of TBIs is greater than all cancers in the U.S.
- TBI is the leading cause of death/disability in children/young adults (age 0-14) in the U.S.
- 1.5 – 3.0 million TBIs per year in U.S.
 - 70,000 die
 - 60,000 develop epilepsy
 - 235,000 hospitalized
 - 90,000 become disabled
- As of 2/07, 25,000 U.S. service personnel wounded in Iraq – 17,000 have TBI
- "Psychiatric impairments caused by TBI are unrecognized because of the deficiency of appropriate education in this area for psychiatrists."

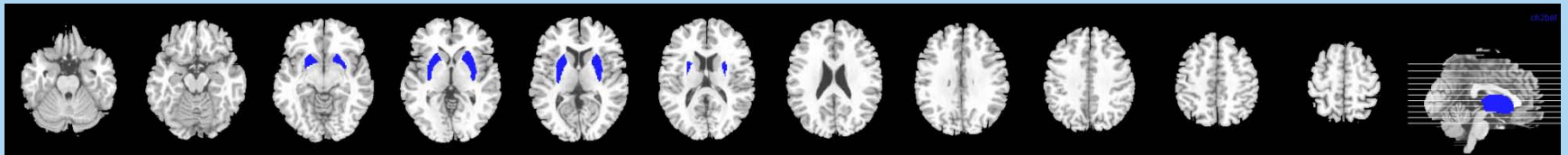
Battlefield wounds TO U.S. Forces in OEF and OIF are largely non-penetrating concussive



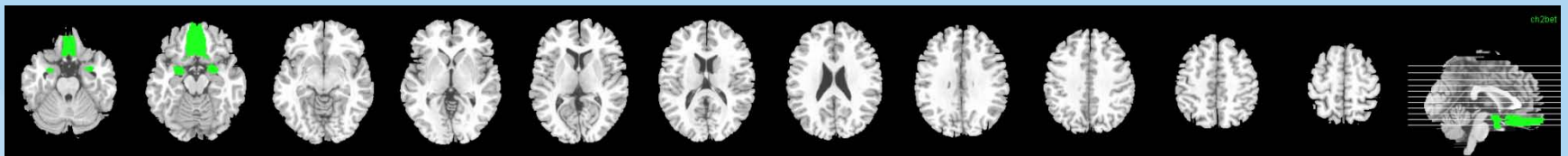
1. Working Memory Task



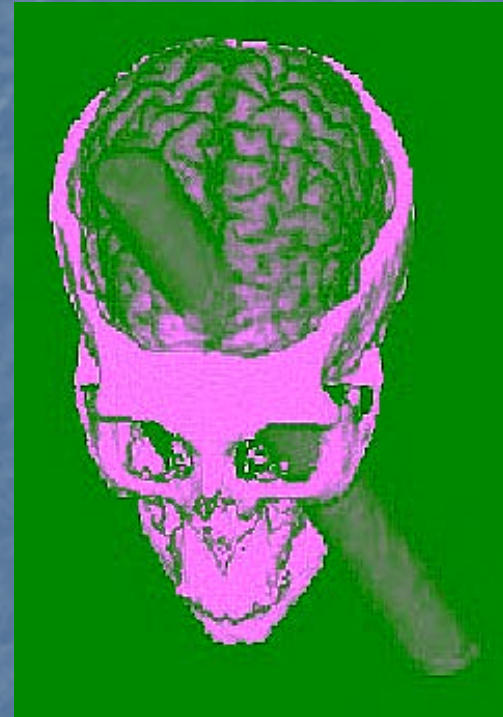
2. Non-Social Decision Making Task



3. Social Decision Making Task



PTSD & TBI

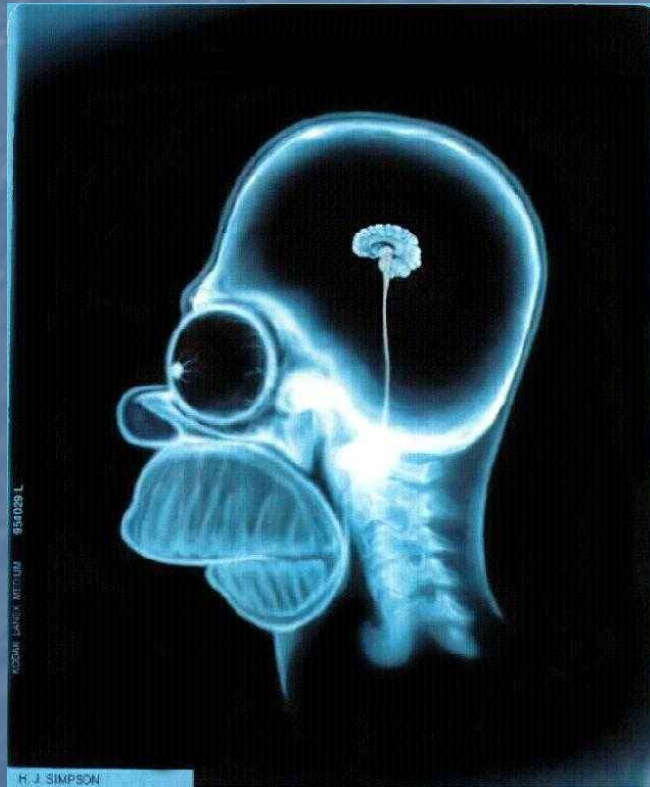


What do we commonly see wrong with their brains?

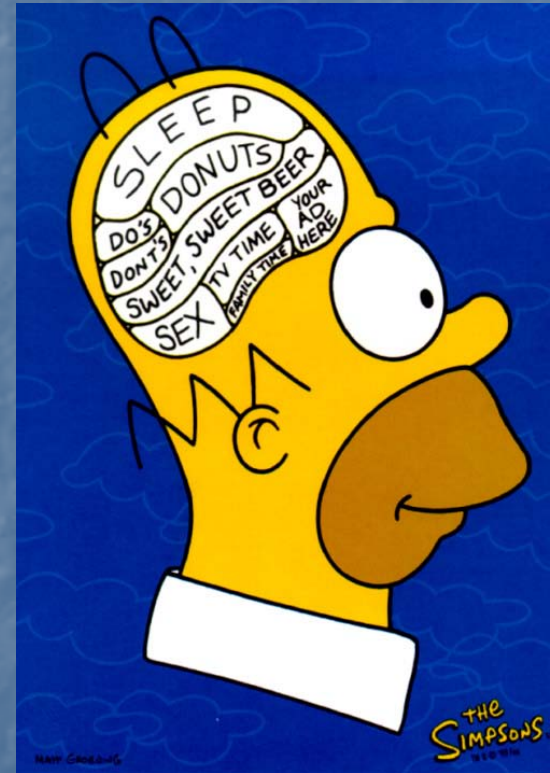
NOTHING

MRI vs. fMRI

MRI studies brain anatomy.

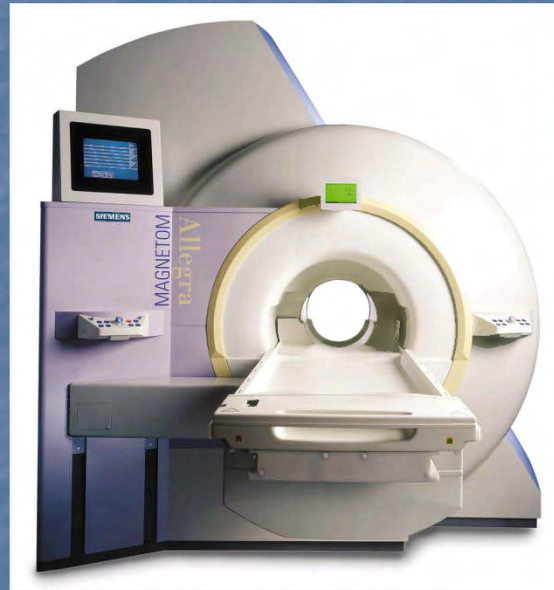


Functional MRI (fMRI) studies brain function.



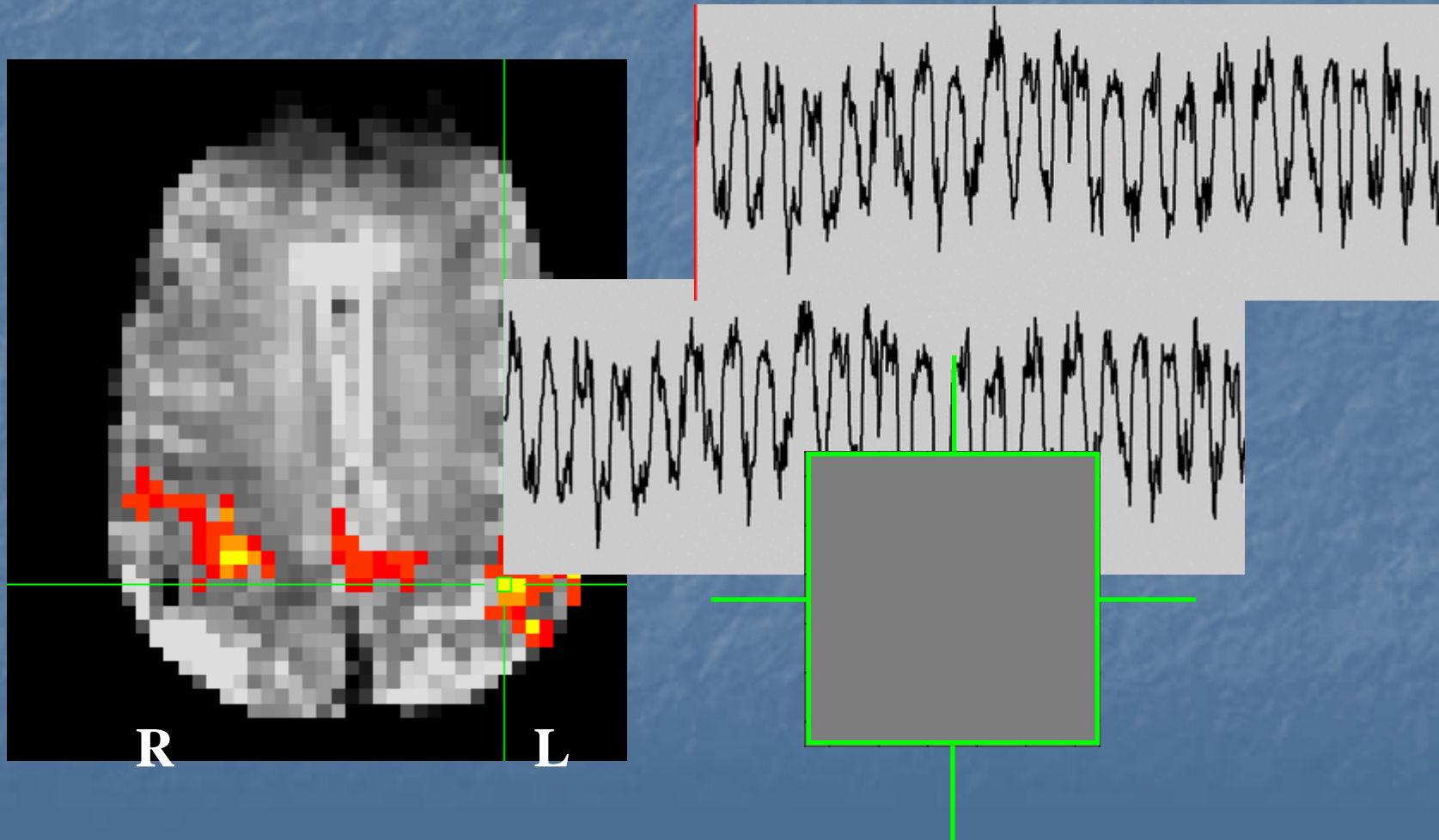
Functional magnetic resonance imaging (fMRI)

Makes a 'movie' of microscopic blood flow changes in the brain

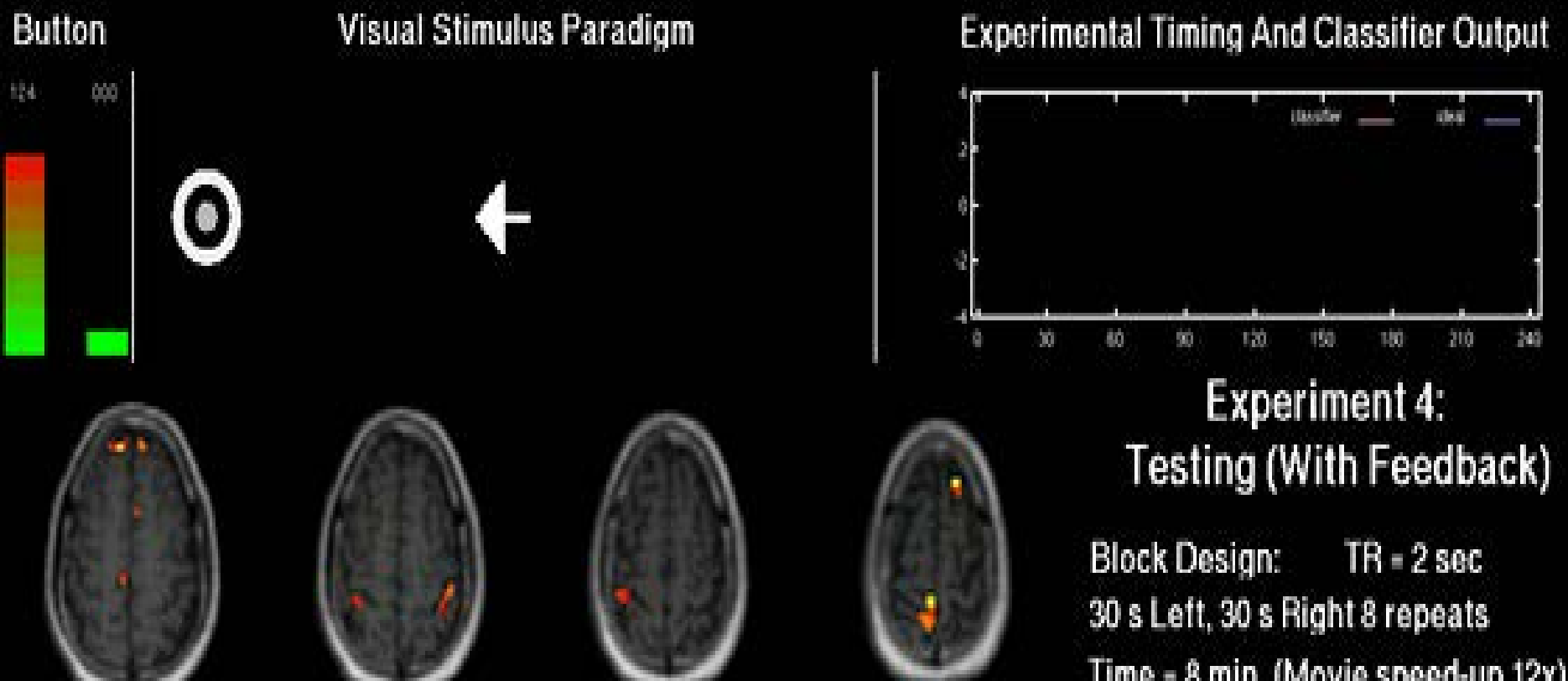


This technique lets us make images of functioning human brains

Localized fMRI signals



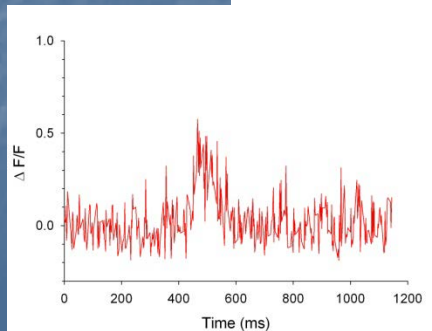
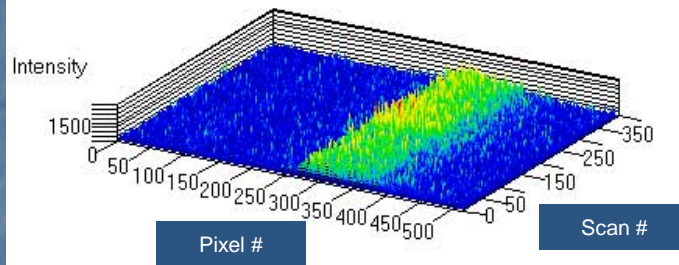
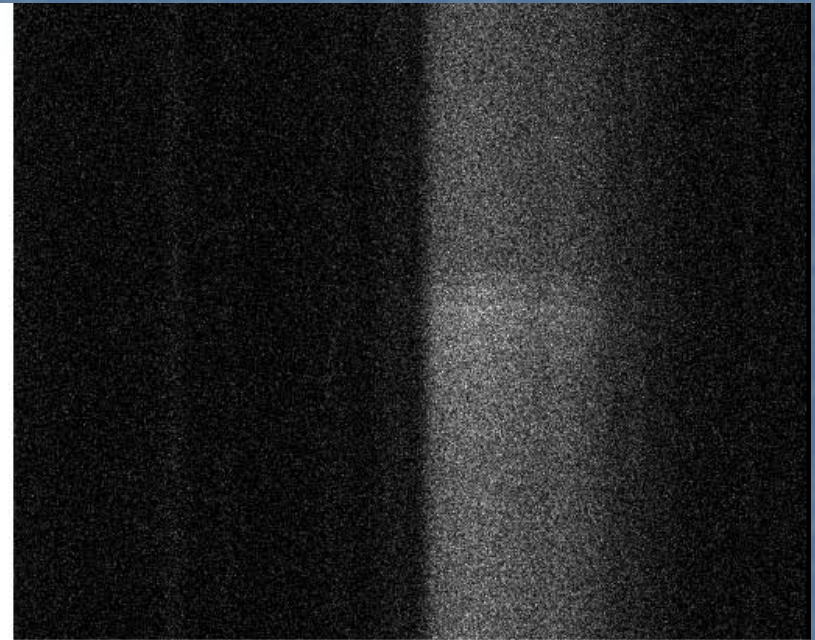
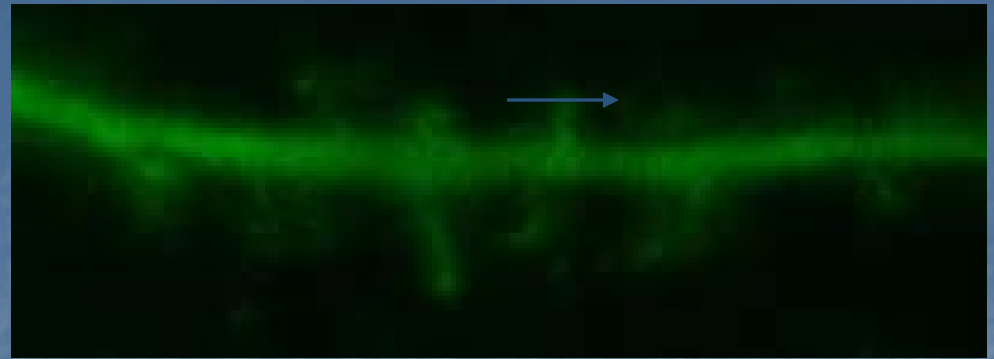
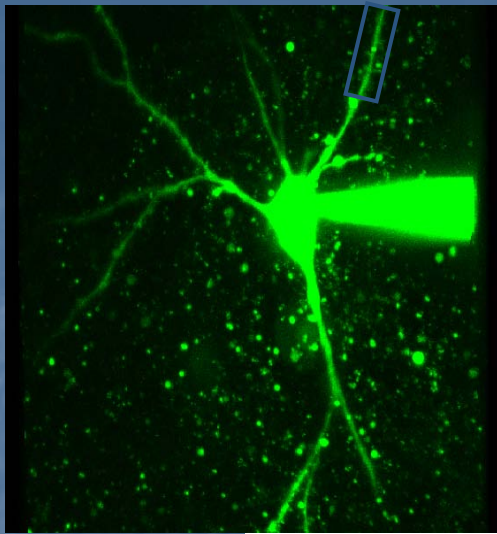
fMRI based biofeedback for neurorehabilitation training for brain injury, addiction/craving, chronic pain and neurodegenerative disease



Stephen LaConte - BCM

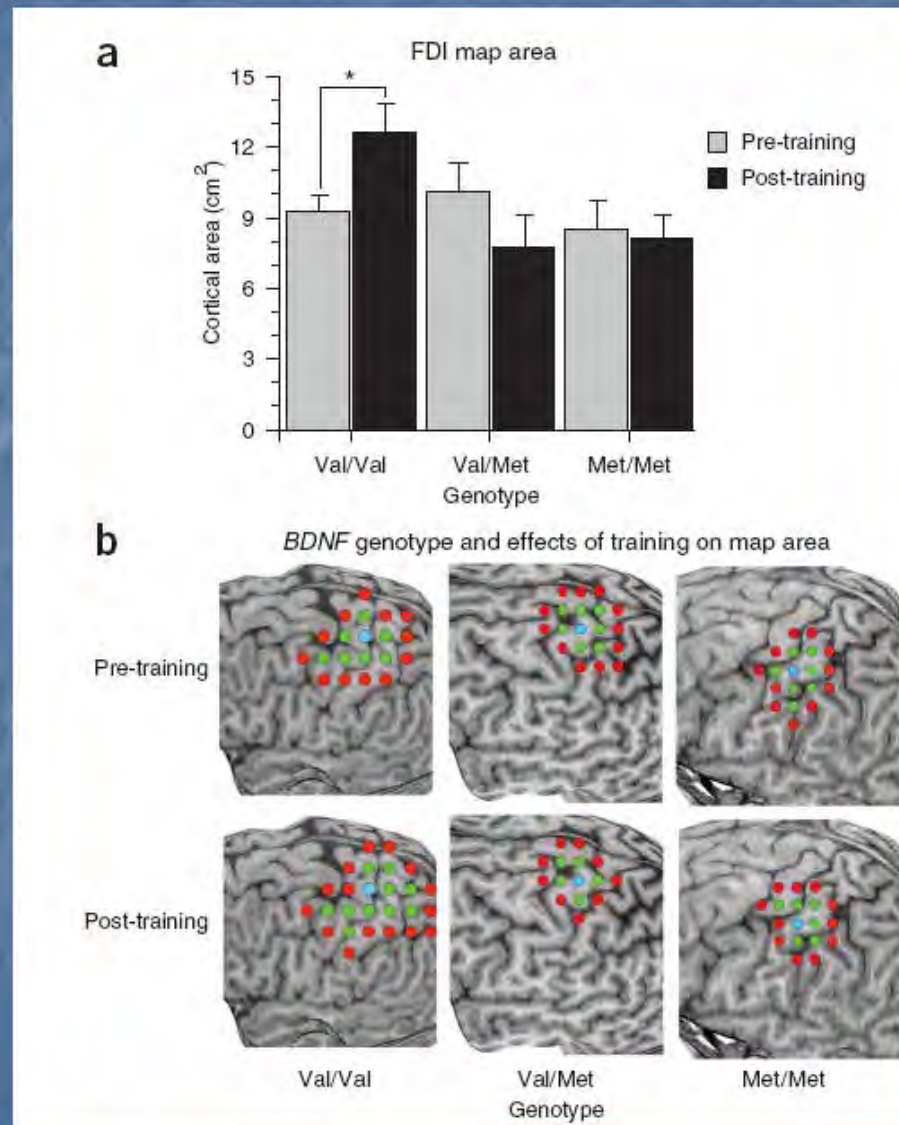
fMRI as a therapeutic tool for chronic pain, cerebrovascular injury, addiction, TBI, developmental disabilities





Application of laser based multi-photon microscopy in living brain tissue repair after injury

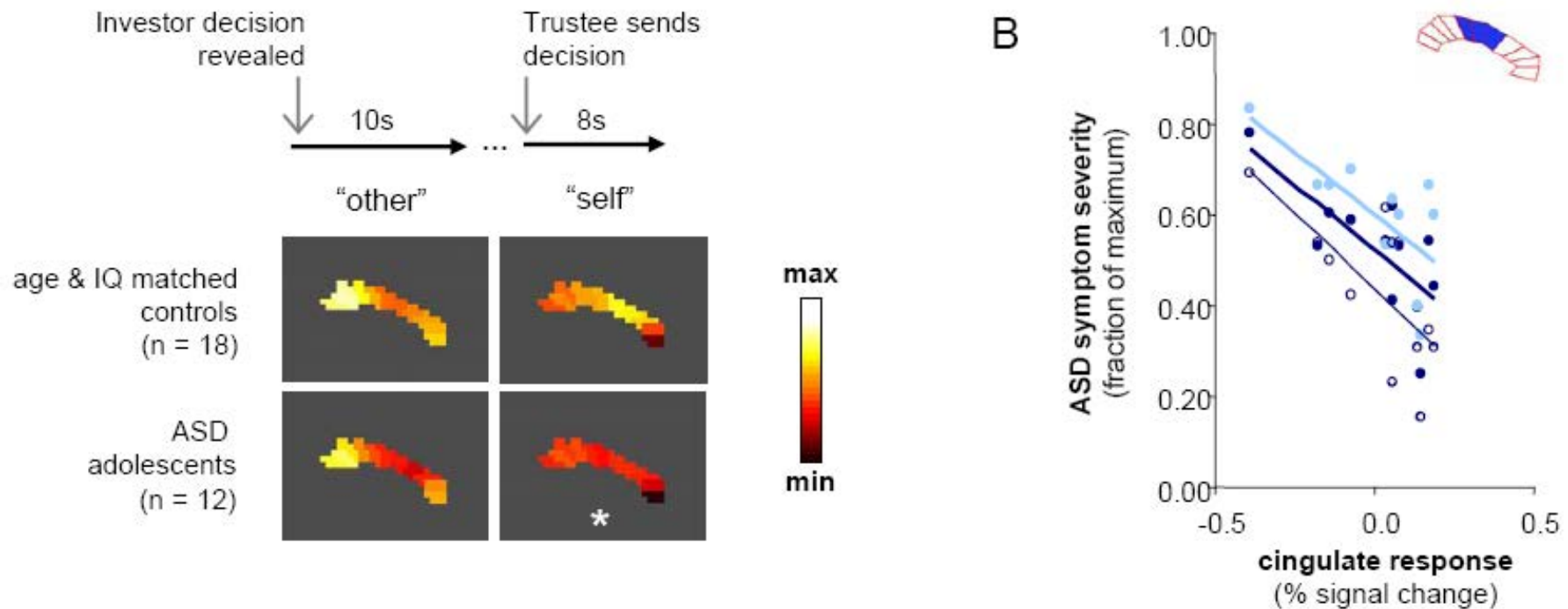
Individual genetic variability – personalized medicine and development of therapies



Social cognition is perturbed in a range of illnesses;
Decision-making is a key element of healthy lives

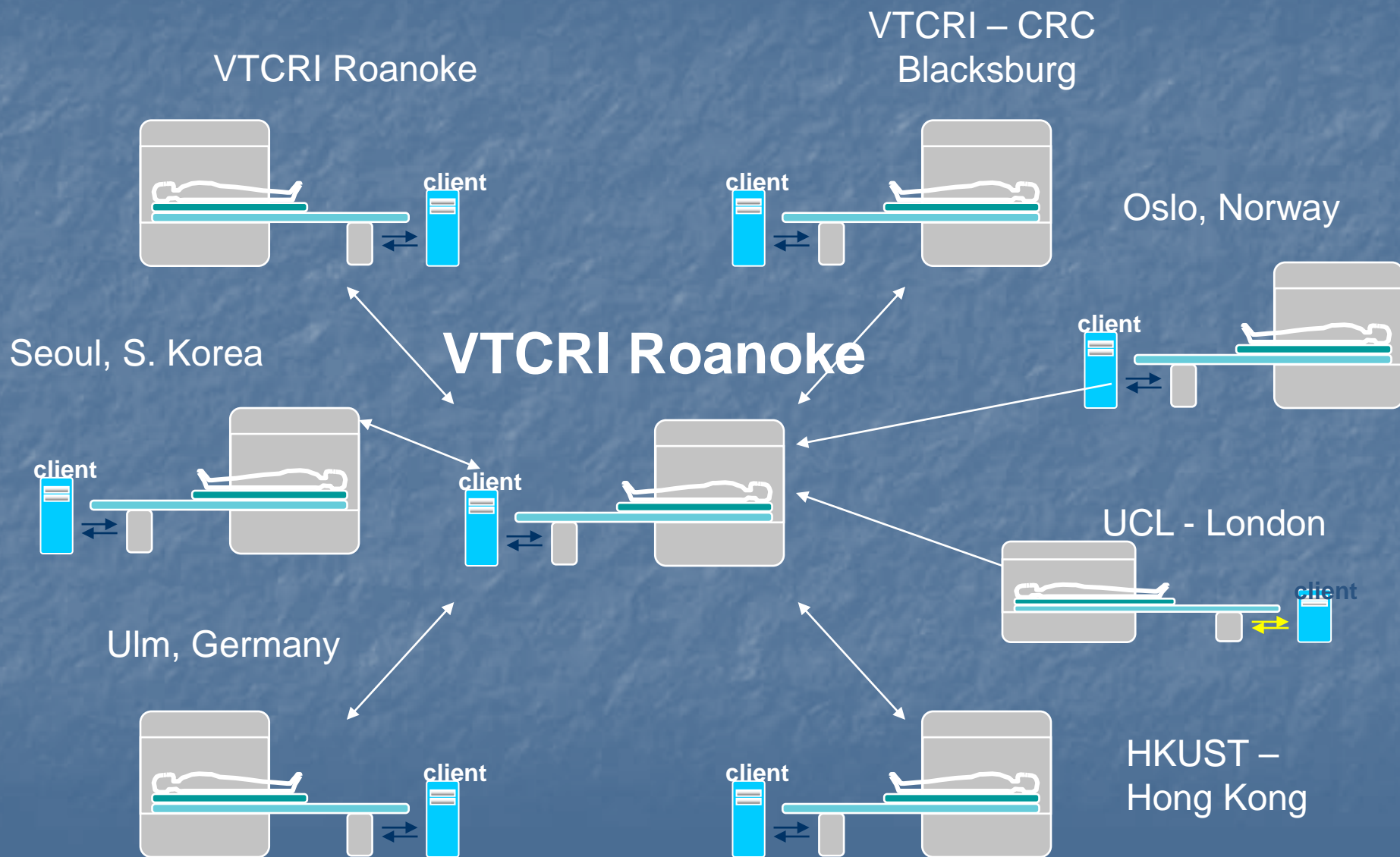


autistic subjects lack the "self response" in the brain's cingulate cortex; lack of fMRI self response is related to clinical symptom severity

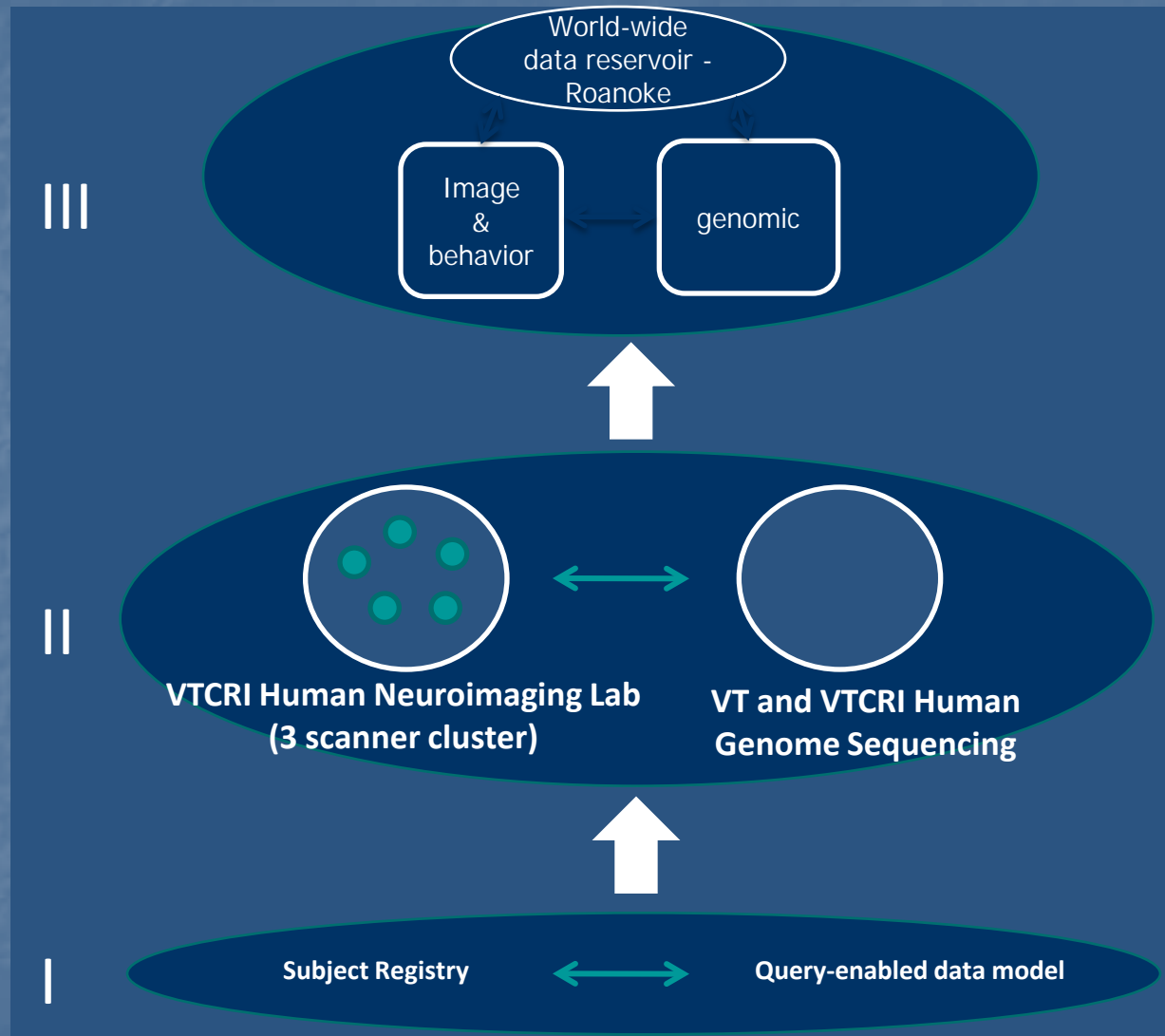


Chiu, Kiali, Tomlin, Kishida, Klinger, Klinger and Montague,
2007, Neuron

World wide interactive functional brain imaging network based at VTCRI



The Roanoke Brain Study – lifelong study of human brain function in health and disease



Nicotine and Alcohol: Gateway Drugs for Abuse and Effects of individual, family, and community health



Cannabis

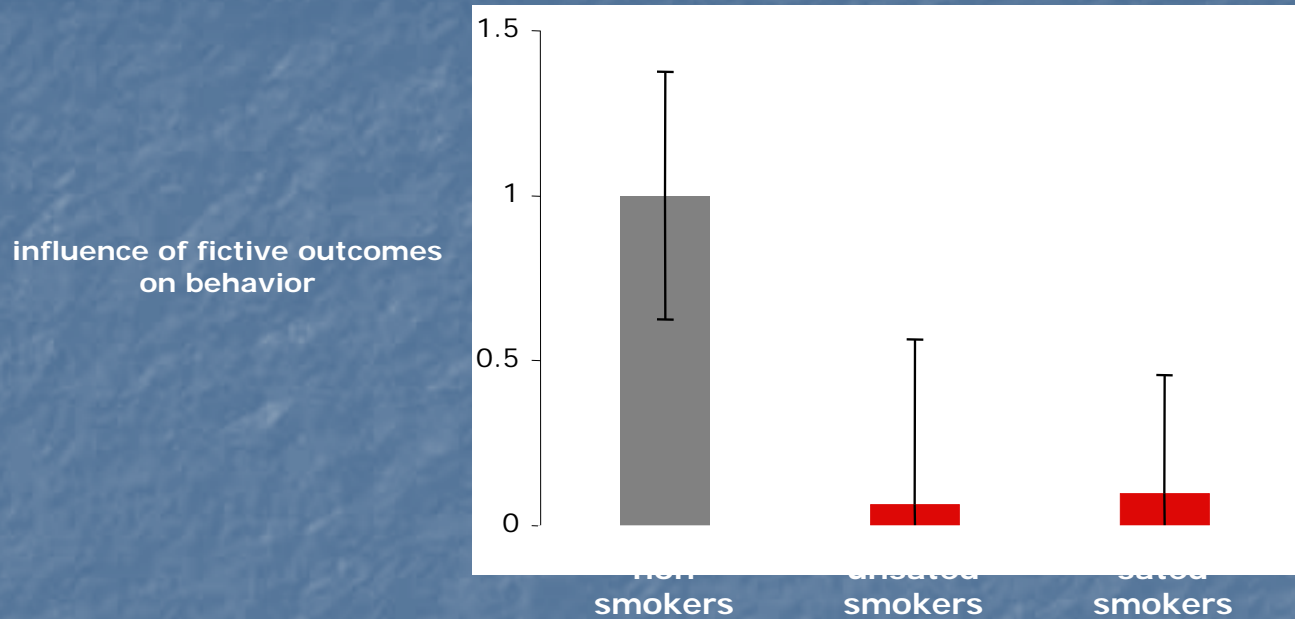


Pain-killers

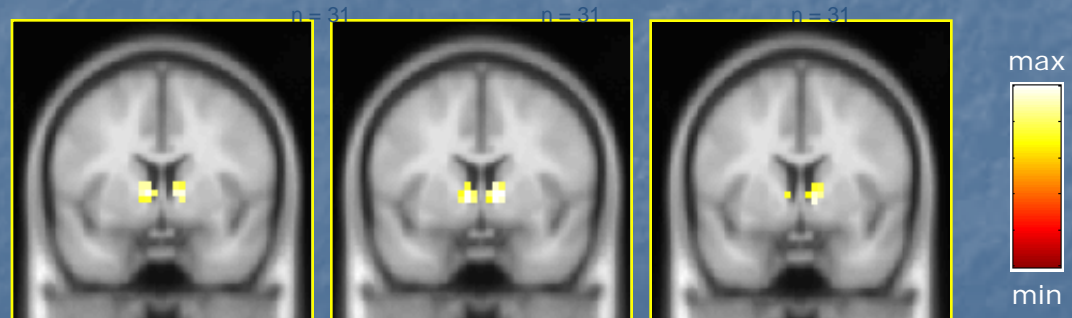


Cocaine & Heroin

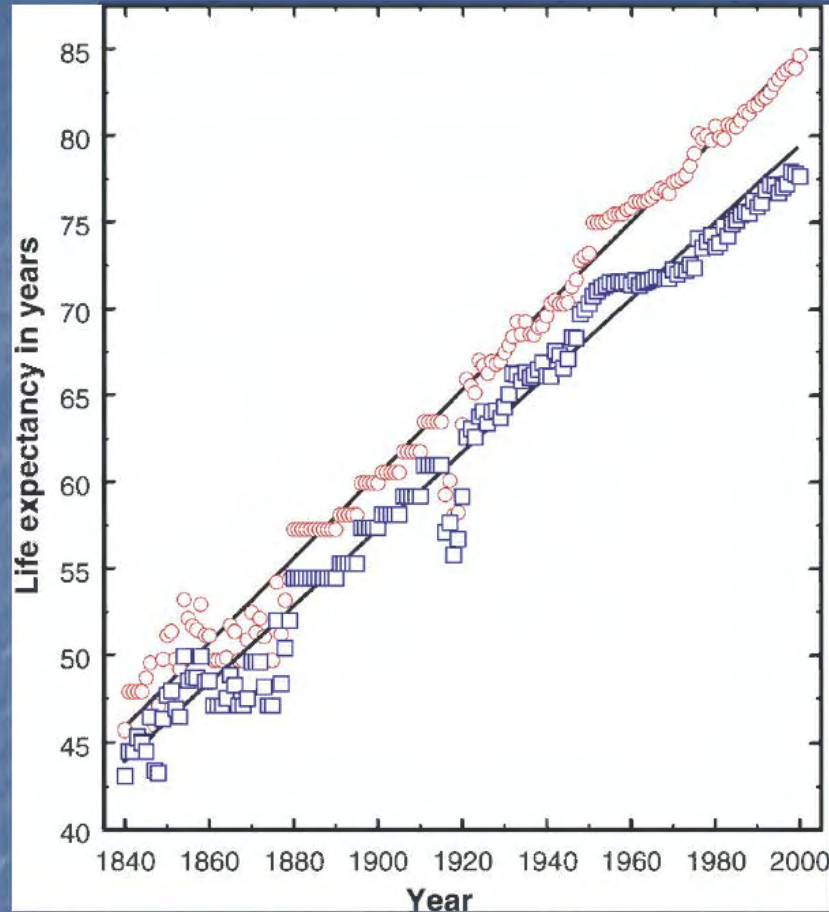
What “might have been” *does not* guide smokers’ behavior



brain response to fictive outcomes

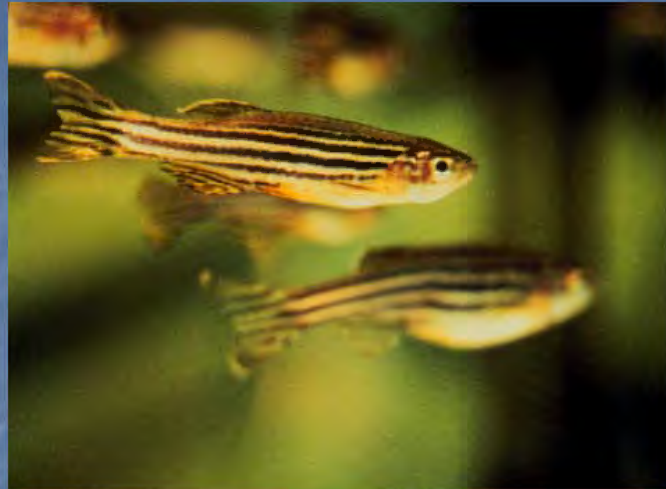


Aging

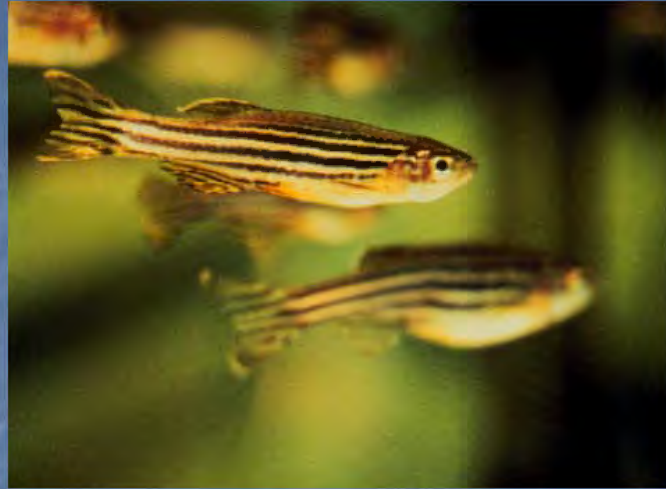


- Life expectancy has doubled since 1800; advanced age is common;
- Many people alive today with progressive degenerative changes
- Women continue to live longer than men

All critters age



All critters age

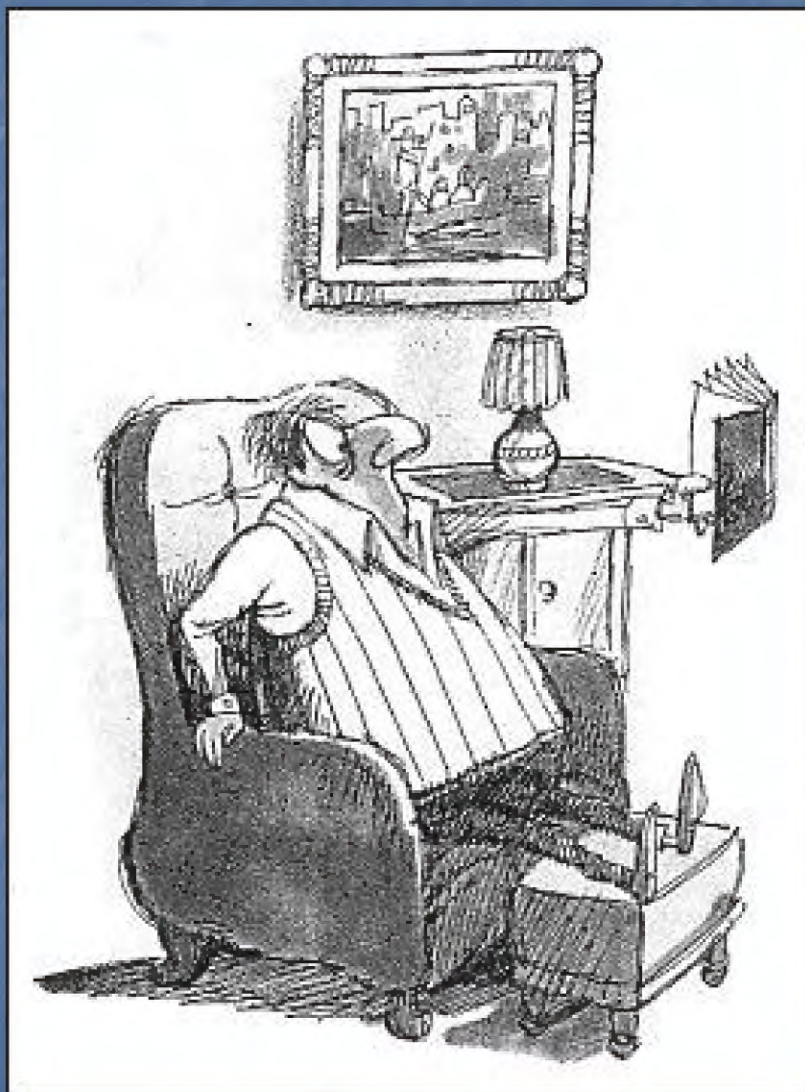


What slows aging down in all of these species?

All critters age



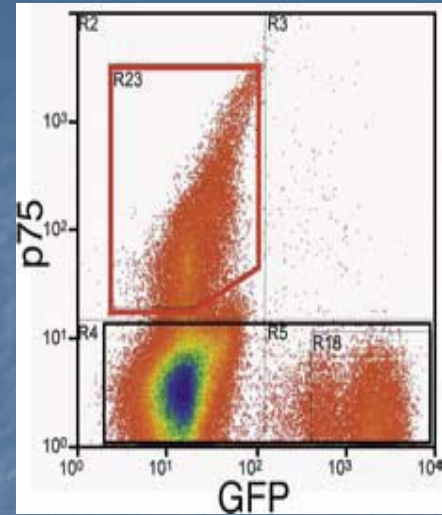
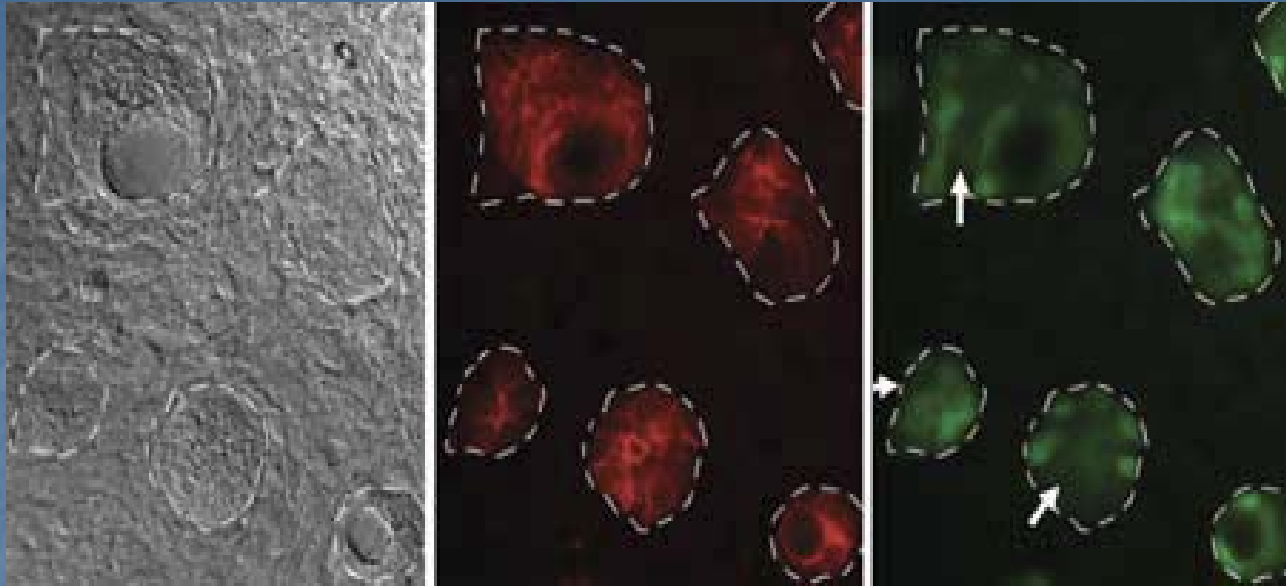
Calorie restriction!



© Original Artist
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www.CartoonStock.com



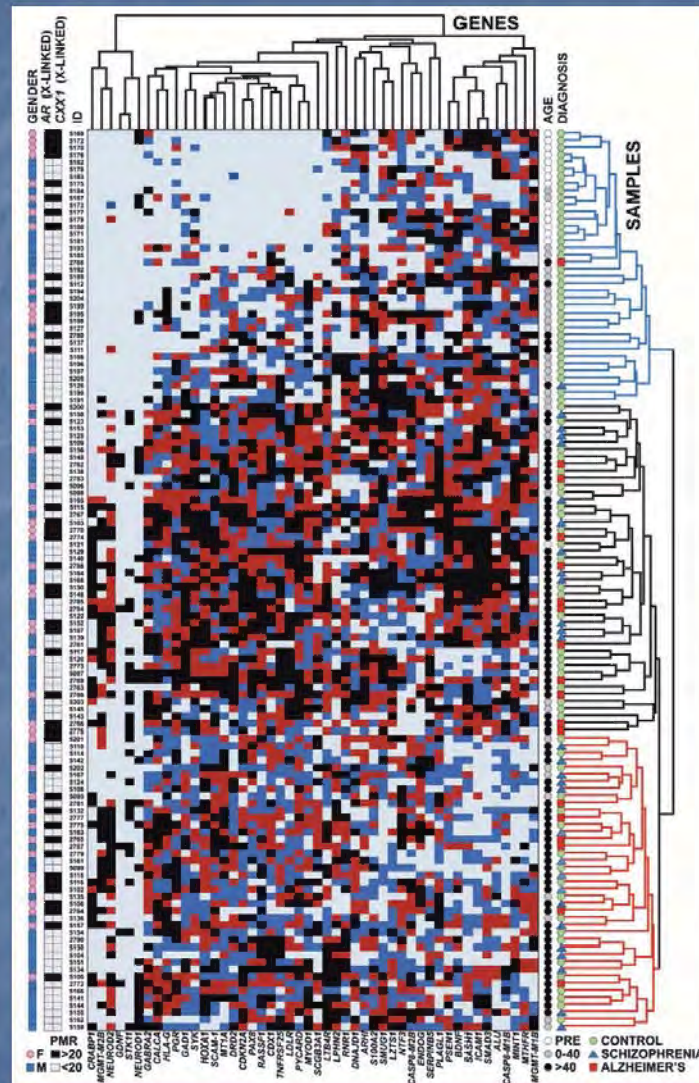
Selective **H**earing **F**or **M**en



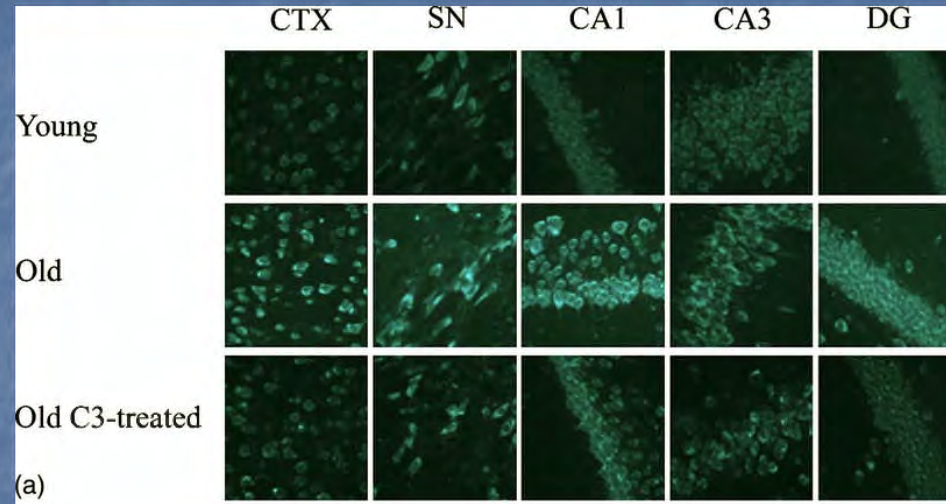
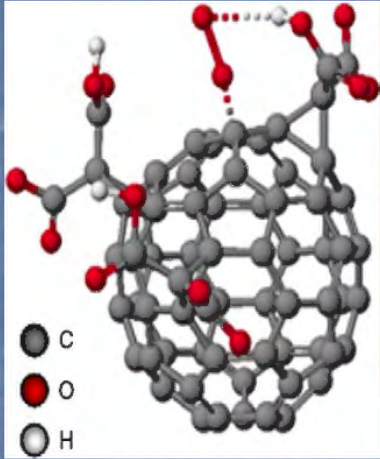
Restorative and regenerative medicine - supporting cells dividing and trans-differentiating into hair cells

Andy Groves, Ph.D., *Nature*, 2006

Epigenetics - DNA methylation throughout the lifespan and degenerative disease

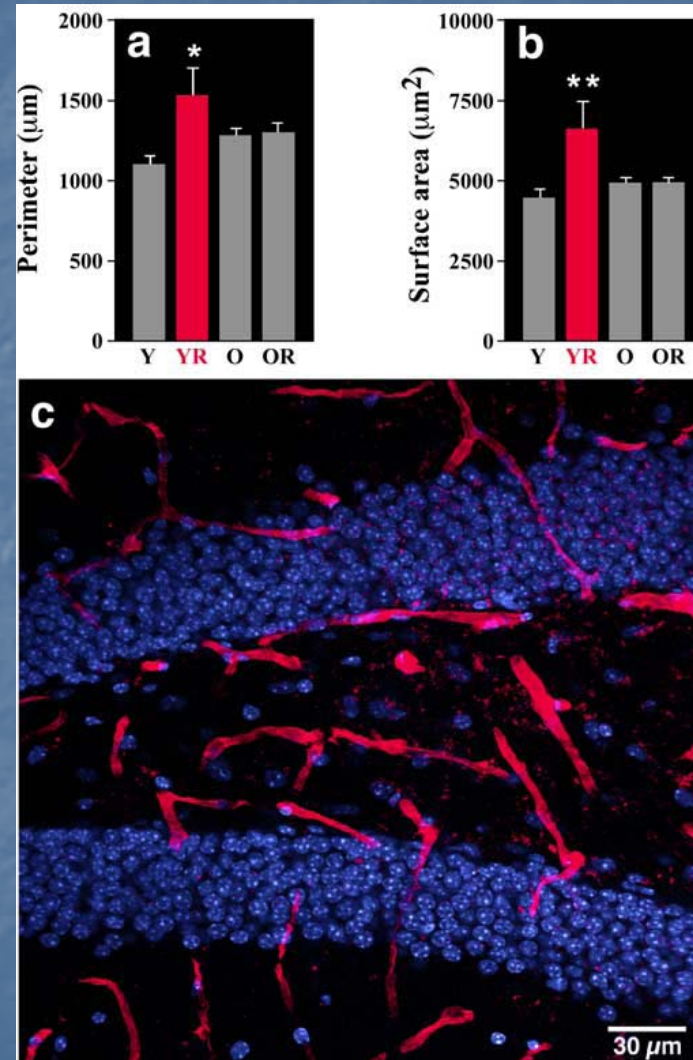
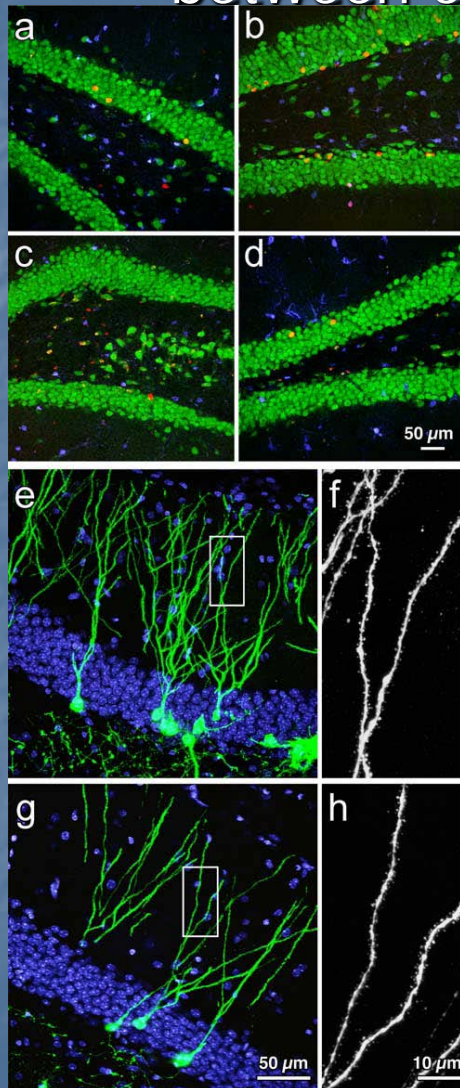


An anti-oxidant (C3) extends lifespan, enhances memory and reduces free radicals – nano-engineering and health



(Quick et al, Neurobiol of Aging, 2008)

Exercise in aged mice offsets decline in neurogenesis, increases brain vasculature and improves cognitive performance – linkage between cardiovascular health and brain health



What we will do

- Bring outstanding scientific talent to the community; make strategic and wise investments
- Contribute to the education and of a new generation of scientifically inquisitive and data savvy physician
- Bring \$\$\$ and jobs to the city and region
- Generate and translate IP; develop investment partnerships for local/regional development of translation and application of discovery
- Form working partnerships with VT, Carilion, CRC, Salem VA, local businesses and entrepreneurs
- Facilitate the movement of scientific discovery POCs for patients
- Welcome the participation of the public and communicate our work

Investment and Model for VTCRI

Investment in VTCRI

- \$59M from state for building
- \$50M from Carilion/VT for program start up

Remaining initiatives/challenges

- Vivarium facility (~\$25M)
- Third floor lab space completion (~\$10M)
- O&M/ IT infrastructure
- Organizational structure/appointments

Model

- public/private partnership
- SoM-RI joined collaboratively as partnership
- High level of involvement of medical students in RI research enterprise
- highly interdisciplinary research teams
- human, animal model, computational, behavioral research approaches
- community, healthy subject, systems, cellular, molecular based approaches

First year staffing plan (9-11 research teams)

- Recruitment of 5-6 teams of brain researchers (neuroscience) - 4 human based (decision-making in health and disease); 2 cellular/molecular animal model based researcher teams (brain development, disorders, injury)
- Recruitment of 1 community medicine based researcher (public health) – healthy lives, outcomes (substance abuse, nutrition, cardiovascular health, obesity, cancer risk)
- Recruitment of 3-4 molecular biology research teams (cardiovascular, cancer, infectious disease)
- Recruitment of support staff (technical and administrative)

First year staffing progress (8/29/10)

- Recruitment of 5-6 teams of brain researchers (neuroscience) -4 human based (decision-making in health and disease) **completed**; 2 cellular/molecular animal model based researcher teams (brain development, disorders, injury) **1/2 completed**
- Recruitment of 1 community medicine based researchers (public health) – healthy lives, outcomes (substance abuse, nutrition, cardiovascular health, cancer risk) – **in progress**
- Recruitment of 3-4 molecular biology research teams (cardiovascular, cancer, inflammation/infection) – **in progress**
- Recruitment of support staff (technical and administrative) (**8/12 in place**)

VTCRI Visiting Scholars – summer, 2010

Dr. Tao “Peter” Zhong –Vanderbilt School of Medicine Cell and Developmental Biology - mouse and zebrafish models for the study of the genetics of heart development; **8/19 - 8/20;**

Dr. Warren Bickel, Professor of Psychiatry and Director of the Center for Addiction Research, University of Arkansas for Medical Sciences; tobacco use and substance abuse as public health issues; **8/23-8/24;**

Dr. Deborah Kelly - Harvard Cell Biology, analysis of functional biological macromolecular complexes with cryogenic electron microscopy in heart development; **8/30 - 8/31;**

Dr. Sarah McDonald– NIH (NIAID); evolution and replication strategies of human rotaviruses; **9/13 - 9/14;**

Dr. Leon Chong– Ohio State University Cancer Center, stem cells in organ development and tumorigenesis; **9/16 - 9/17**

VTCRI Visiting Scholars – summer, 2010

- **Dr. Eric Krause –U. of Cincinnati**, stress modulation of fluid and electrolyte homeostasis – behavioral effects on development of cardiovascular disease; **9/20 - 9/21;**
- **Dr. Gabi Gerlitz –NIH (NCI)** – cell migration and role of chromatin dynamics in nucleokinesis in development, cell differentiation and cancer induction; **9/23 -9/24;**
- **Dr. Konark Mukherjee –Brandeis University**, molecular biophysics of neurotransmitter release; **9/27 - 9/28;**
- **Dr. Kazu Toyo-oka, University of California San Francisco**, molecular genetics of schizophrenia and depression; **9/30 - 10/1;**
- **Dr. Art Haas, Professor and Chair, Biochemistry, LSU Health Science Center**; role of the proteasome and ubiquitination in cancer; **late September.**

5 Year Plan

- 25 research teams in place
- 50 individual research grants (\$20M annual); 5 program/center grants (\$5M annual); 3 training grants (\$1M annual); 5 Foundation awards (\$2.5M annual)
- 250 research support/technical staff (fellows, technicians, students)
- 20 administrative staff
- Biomedical graduate program (3 tracks)

- Extra slides

Disorders throughout the lifespan - occurrence of developmental disabilities

- Over 4,000,000 live births in U.S. per year
- 300,000,000 U.S. citizens
- 4,000,000 U.S. citizens have severe developmental disabilities (DD)
- 1,500,000 of those with severe DD are under 18
- Many more have mild to moderate developmental disabilities (up to an additional 12,000,000 children)

Causes of developmental disabilities

- genetic
 - inherited
 - spontaneous mutations
- chromosomal abnormalities (trisomies)
- environmental factors
 - in utero*
 - ex utero*
 - smoking, alcohol, infections, pollutants, drugs, nutrition, birth trauma, brain/spinal injuries, neglect/abuse, birthweight, endocrine factors, poverty, education/enrichment
 - genetic susceptibility to environmental factors

RESOLUTION FOR THE APPROVAL OF APPOINTMENTS TO THE VIRGINIA COAL AND ENERGY RESEARCH AND DEVELOPMENT ADVISORY BOARD

WHEREAS, The Virginia Coal and Energy Research and Development Advisory Board was established in 1977 by the enabling legislation for the Virginia Center for Coal and Energy Research. The charter for the Center requires approval by the Board of Visitors for new appointments, reappointments and changes in the membership of the Advisory Board.

Proposed new appointments are J. Michael Onifer, Peter Su, Jerry Grantham and Lisa Johnson.

Proposed reappointment is Jerry A. Bridges.

WHEREAS, J. Michael Onifer was named Senior Vice President - Established Business Units of CNX Gas in July of 2007. Prior to that, he had been Vice President - Virginia Operations & Administration at the same company. In his current position, he is responsible for annual production in excess of 70 billion cubic feet (Bcf) and for the wholly-owned Cardinal States Gathering System. Mr. Onifer graduated from Virginia Tech in 1978 with a B.S. degree in Mining Engineering. In 2004, he attended the Program for Management Development at the Harvard Business School. Mr. Onifer started his career as a project engineer at CONSOL Energy and has held various coal-related positions, including Superintendent -- Buchanan Mine; whereas. He joined CNX Gas in late 2000 as a production foreman and advanced through various management positions. Mr. Onifer's education and experience render him especially qualified to serve in an advisory capacity to the Virginia Center for Coal and Energy Research.

WHEREAS, Peter Su has been appointed Director of the Virginia Department of Business Assistance and the legislation establishing the Virginia Center for Coal and Energy Research requires that the Virginia Department of Business Assistance be represented on the Virginia Coal and Energy Research and Development Advisory Board. In addition, Mr. Su is also serving as Assistant Secretary at the Virginia Department Commerce & Trade. Prior to this, he served on the Energy Subcommittee of Governor Bob McDonnell's transition team. Mr. Su has more than ten years of public and private sector experience in business development, international trade, legislative affairs, and information technology. He most recently supported law enforcement efforts as a contractor at the US Department of Justice and has worked on projects for the US Army Intelligence and Security Command. He has also managed global business affairs at Afton Chemical and was actively involved with small, mid-size, and minority owned enterprises in Northern Virginia. In the federal government, Mr Su served as a Country Director in the Office of the Secretary of Defense at the Pentagon, and as a senior foreign affairs officer at the State Department & the U.S. Treasury Department. On Capitol Hill, Mr. Su was a policy advisor to the Congressional U.S.-China Working Group, the U.S.-China Interparliamentary Exchange, and the House Small Business Committee. Peter holds a MS Degree in Computer Science from the

University of York in England, and a Bachelor Degree from Purdue University. Mr. Su's experience in government and in industry will be highly beneficial to the Advisory Board.

WHEREAS, Jerry Grantham has 30 years of experience in the gas and oil industry throughout the United States, currently holds the position of Vice President of Range Resources - Pine Mountain, Inc. which explores for natural gas, both conventional and coalbed methane in southwestern Virginia, is the President of the Virginia Oil and Gas Association, an organization that represents all aspects of the gas industry in Virginia, and has undergraduate degree from the University of Virginia and a Masters degree in Geology from Michigan State University. Mr. Grantham's expertise in and knowledge of the natural gas industry will be particularly useful in representing that industry sector on the Advisory Board.

WHEREAS, Lisa Johnson is the Senior Vice President of Power Supply for Old Dominion Electric Cooperative (ODEC), overseeing all power supply and operations activities for the not-for-profit energy provider to 11 local electric distribution cooperatives that serve Virginia, Maryland and Delaware. She received her undergraduate mechanical engineering and materials science degree from Duke University and went immediately into the energy industry. She subsequently worked in the chemical manufacturing industry, in both engineering and supervisory roles and then moved to Southern Company in Atlanta and over the course of 11 years held various positions with the Southern Energy subsidiary and with Mirant Corporation. Under the business unit management roles with Mirant, Ms. Johnson was in charge of all power producing facilities and associated business responsibilities in the Midwest, the Northeast, and the Mid-Atlantic areas. She came to ODEC in the spring of 2006 and is their senior officer for power supply. Jackson Reasor, President and Chief Executive Officer, has represented ODEC on the Advisory Board since 1999 and has declined to be reappointed. Ms. Johnson will replace Mr. Reasor on the Advisory Board, bringing with her knowledge of all aspects of the power generation industry that will be very valuable.

WHEREAS, Jerry A. Bridges has served Executive Director of the Virginia Port Authority (VPA) since February 5, 2007, and the legislation governing the Virginia Center for Coal and Energy Research mandates that the Virginia Port Authority be represented on the Advisory Board. Prior to Mr. Bridges' arrival at the VPA, he served as Executive Director of the Port of Oakland, California, since June 2004, with responsibility for Oakland International Airport, the Oakland Seaport (4th largest in the USA), and extensive commercial real estate holdings. Prior to his appointment as Executive Director, he served in the capacities of the Port's Director of Maritime, Area Vice President Northern California for Marine Terminals Corporation, and held various operating positions with Sea Land Services and Roadway Express. Mr. Bridges currently serves on the Board of Directors of Virginia International Terminals, Incorporated, Hampton Roads Partnership Board of Directors and Executive Committee, Greater Norfolk Corporation Executive Committee, Town Point Club Board of Governors, Chrysler Museum of Art Board of Trustees, Old Dominion University Executive Advisory Council, Norfolk Education Foundation Board of Directors, Virginia

Beach Vision Board of Directors, Norfolk Festevents Board of Directors, the Marine Board of the National Research Council and the Sentara Healthcare Board of Directors. Mr. Bridges also served 20 years as an officer in the U.S. Marine Corps in active/reserve status and received his Bachelor of Science Degree in Social Sciences from the Appalachian State University in Boone, North Carolina. Mr. Bridges will provide representation on the Advisory Board of a key energy transport sector.

NOW, THEREFORE, BE IT RESOLVED, that J. Michael Onifer and Peter Su be appointed as members of the Virginia Center for Coal and Energy Research Advisory Board for 2010-2013; that Jerry Grantham and Lisa Johnson be appointed as members of the Advisory Board for 2010-2014; and that Jerry A. Bridges be reappointed as member of the Advisory Board for 2010-2013.

RECOMMENDATION:

That J. Michael Onifer and Peter Su be appointed as members of the Advisory Board for 2010-2013; that Jerry Grantham and Lisa Johnson be appointed as members of the Advisory Board for 2010-2014; and that Jerry A. Bridges be reappointed as member of the Advisory Board for 2010-2013.

August 30, 2010

Committee Minutes

STUDENT AFFAIRS AND ATHLETICS COMMITTEE OF THE BOARD OF VISITORS

**Smithfield Room
The Inn at Virginia Tech and Skelton Conference Center
8:30 a.m.**

August 30, 2010

PRESENT: Ms. Beverley E. Dalton, Chair
Mr. Frederick J. Cobb
Ms. Suzanne S. Obenshain
Mr. Shane McCarty

GUESTS: Maj. Gen. Jerry Allen, Ms. Kimberle Badinelli, Mr. Tom Brown, Dr. Cynthia Bonner, Ms. Kelly Cagle, Dr. Heather Evans, Dr. Rick Ferraro, Dr. Bethany Flora, Dr. Martha Glass, Mr. Hikmet Gursoy, Mr. Jermaine Holmes, Mr. Rick Johnson, Mr. Carl Krieger, Dr. Leon McClinton, Mr. George Nolen, Mr. Jamie Penven, Ms. Rhonda Rogers, Dr. Frank Shushok, Dr. Guy Sims, Ms. Tricia Smith, Mr. Rick Sparks, Dr. Edward Spencer, Dr. Charles Steger, Mr. Jim Weaver, Ms. Ashley Wood

Open Session

- 1. Opening remarks and approval of June 7, 2010 minutes:** Ms. Beverley Dalton, Chair, provided opening remarks and submitted the minutes of the June 7, 2009 Student Affairs and Athletics Committee meeting to the committee for review and approval. The minutes were approved as written.
- 2. Athletic Department Quarterly Report:** Mr. Weaver introduced his Mr. Jermaine Holmes, Director of Student Athletic Academic Support, who gave an overview of the academic report from spring semester 2010. Out of a total of 486 students athletes on team rosters, 41% maintained a cumulative 3.0 or greater GPA, 49% achieved a 3.0 or greater semester GPA, and 25% made the Dean's List. The students are maintaining and doing a good job in the classroom. Mr. Weaver also noted that their graduation federal rate was 72% for the second year in a row. The goal is to graduate them at a rate commensurate with the student body population which is 78%. Relative to our on the field competition, that puts us at about 5th in the ACC.

Mr. Weaver introduced Ms. Kelly Cagle, Women's Soccer Coach, who reported that eight years ago the Soccer Program had never had a winning record, so the goal was to build something really special to go along with the

atmosphere here at Virginia Tech. They have now been to post season play three times in seven seasons and this past year they made a run into the sweet sixteen. This pre-season they are ranked 15th. The Soccer Program is a value-based program that is in line with the Athletic Department's philosophies. She commented on the facilities, noting that they are an industry leader in the conference when it comes to their facilities. Fiscally, the program is responsible and from a budgetary standpoint they are provided everything that they need to be competitive at the highest levels. In addition, she wants her student athletes to be leaders in the classroom, on the field, and as people.

3. **Division of Student Affairs Overview and Update:** For the benefit of new committee members, Dr. Edward Spencer, Vice President for Student Affairs, gave an overview and update on the Division of Student Affairs. He explained how the Division's 16 departments are organized into subdivisions and how the vast majority of the Division's \$103 million budget is auxiliary funded. He also highlighted the large number of buildings (over 60) for which the Division is responsible and noted that over 2,600 full- and part-time employees work in the Division of Student Affairs. He went on to outline current issues for Student Affairs and the Division's strategic goals.

Dr. Spencer then briefed the committee on significant Division highlights from 2009-2010. Finally, he offered a preview of key items anticipated in the 2010-2011 year ahead.

4. **Introduction of New Division Mission, Aspirations for Student Learning, and Guiding Principles for Services:** Dr. Frank Shushok, Associate Vice President for Student Affairs, offered comments on the Division's recent adoption of a new mission statement, service principles, and five learning outcomes. The purpose of this effort is to ensure that Student Affairs is deliberate in how it designs learning opportunities available in all student environments. As a result, the Division will create new and innovative practices to facilitate these outcomes, and assess the extent to which students are able to apply such learning to solve problems. Each department in the Division of Student Affairs will develop a plan for helping students become more competent within each of the five dimensions. The adopted outcomes, mission, and service principles are attached.

5. **Review of Orientation, Hokie Camp, and Fall Opening**

Mr. Tom Brown, Dean of Students, reviewed summary numbers for the summer '10 Orientation programs. Fifteen Orientation sessions were conducted – 12 for freshmen and three for transfer students. Overall participation increased from 2009 with 98% of new freshmen and 85% of new transfer students in attendance. Ninety-eight percent of new students attending rated the program as a positive experience, indicating they feel

confident and comfortable about starting their first semester. New program efforts for 2010 included the addition of an academic success component during the Parents as Partners session conducted daily. Leadership for this presentation was given by Dr. Mary Ann Lewis, Director of First Year Experiences in the Provost's Office. A new program change for students gave them the opportunity to attend two interest sessions – one on their own and one with their parents. Also, a "Tradition Walk" was implemented by the Orientation student leadership team, which included a walk around the Drillfield highlighting the history and traditions of the University.

Hokie Camp

Mr. Rick Sparks, Associate Dean of Students, shared an overview of the 3rd annual Hokie Camp. The Hokie Hi curriculum was expanded to include a session on *Ut Prosim*. Campers are presented the history of Virginia Tech and discuss in small groups how they can get involved in service at Virginia Tech. Emphasis over the past year was placed on employing, training, and supporting student staff. Two student directors and five "color group" leaders were identified and played an integral role in program planning. Three sessions were held with a total attendance of approximately 660 students, an increase of 38% from 2009.

Hokie Hi

Mr. Sparks also reviewed the program efforts comprising the Hokie Hi Welcome Week including Gobblerfest, the Hokie Hi Welcome Back picnic, and the movie on the Drillfield. In addition to the full Hokie Hi schedule, the Hokie Helpers move-in program was added as the official kick-off to welcome week.

Housing and Dining Services

Mr. Rick Johnson, Director of Housing and Dining Services, reviewed fall semester opening. He then discussed the progress on the major capital renovation to Ambler Johnston Hall and reviewed the summer renovation projects in the residence halls. Mr. Johnson continued his presentation discussing the sustainability initiatives within Housing and Dining Service. It was noted that Dining Services once again received national recognition: #1 Best Campus Food, Princeton Review 2010 edition; #2 Best Campus Food, Princeton Review, 2011 edition; Best Concept Award from Food Management Magazine 2010; and #3 in the nation for Best College Eats from "Parents and Colleges," the Resource for College-Bound Students.

Residence Life

Dr. Leon McClinton, Director of Residence Life, reported on the two fundamental strategic directions being pursued by the department: 1) Increasing the integration of the academic and social lives of students and 2) Increasing the quality and nature of relationships in the residence halls. Efforts to make progress with these goals include several important initiatives:

1) The Hokie Helpers Program; 2) Staff Restructuring; and 3) Enhancing Living-Learning Opportunities.

A new “move in” program called “Hokie Helpers” was launched in an effort to involve the entire Virginia Tech community in welcoming students to campus. Approximately 1000 faculty, staff, and students participated in the program by transporting belongings, handing out water, offering directions, assisting with traffic flow, and offering a warm welcome.

Residence Life has transitioned eight current staff members and hired four others to serve as residential learning coordinators. These changes will help support the commitment to connect with every student who resides on campus. Its goal is to strengthen the focus on learning and community in the residence halls to provide support and development for students outside of the classroom.

Three decades of research on student outcomes provides compelling evidence that living in a campus residence, especially in settings that integrate the academic and social lives of students, has important implications for student learning. As a result, Residence Life is implementing a plan to expand opportunities for students to live in residential communities developed in partnership with academic affairs. In addition, the first-year common reading is being distributed through the residence halls and used by staff to facilitate conversation about sustainability.

- 6. Overview and Update on the Corps of Cadets:** Major General Jerry Allen, Commandant of Cadets, discussed the strategic goals of the Corps: (1) continuously improve the leader development program; (2) grow the Corps to 1000 cadets; (3) improve facilities; and (4) grow the Corps endowment. General Allen reported on progress in each area. Highlights include the fact that this year’s Corps is 850-strong and the largest since 1969; a cadet was named outstanding undergraduate leader for the seventh consecutive year; and the Corps has surpassed its goal of raising \$30M in the Campaign for Virginia Tech.
- 7. Adjournment:** There being no further business, the meeting adjourned at 11:25 a.m.

Attachment



Our Mission

The mission of the Division of Student Affairs is to promote student learning, life skills, and personal growth through a strong focus on holistic student development and collaborative partnerships that deliver superior service to, and care for, students in the spirit of *Ut Prosim*.

Our Aspirations for Student Learning

The Division of Student Affairs exists to sustain a culture of learning, reflecting the profound opportunities inherent for students at Virginia Tech. We believe students can develop habits of interpersonal awareness, intentional actions, and self-reflection, which complete and complement academic and professional education. The Division of Student Affairs is deliberate in discerning and designing the learning opportunities available in student environments, creating new and innovative practices for student learning, and assessing the extent to which students are able to apply knowledge to solve problems. We challenge students to connect knowledge to the possibilities for improving humanity near and far, creating a legacy now and in the future.

We aspire that our work leads students on a life-long quest to:

Commit to unwavering CURIOSITY

Virginia Tech students will be inspired to lead lives of curiosity, embracing a life-long commitment to intellectual development.

The Virginia Tech student affairs experience seeks to instill the value that learning is the common essential element for intellectual development, discovery, and engagement, instead of a necessary means to a specified end. Virginia Tech believes that all environments of the college experience provide countless opportunities for learning. Student organizations, service projects, classrooms, residence and dining halls, student centers, leader development programs, cultural and recreational events, and many other planned and spontaneous encounters at Virginia Tech, cumulatively represent a vibrant learning laboratory for students.

Pursue SELF-UNDERSTANDING and INTEGRITY

Virginia Tech students will form a set of affirmative values and develop the self-understanding to integrate these values into their decision-making.

Virginia Tech students will experience, explore, and understand the values and principles of their families, communities, and the many cultures they encounter. As students better understand themselves, their strengths and interests, and align their values with purposeful decision-making they will adopt an integrated set of principles to guide their personal and professional lives.

Practice CIVILITY

Virginia Tech students will understand and commit to civility as a way of life in their interactions with others.

Living and learning as individuals who believe in the *Principles of Community* and *Hokies Respect*, students will pursue and embrace the value of civility which will be carried throughout life. At the heart of this pursuit is a basic commitment to consideration, respect, and courtesy. Civility is a shared gift that we give and receive in turn. Accordingly, civility expects that: we strive to listen, as well as to speak to each other; we try to understand each other in our commonalities and differences; we give respect due to all members of the university community; we favor courtesy over rudeness and encourage considerate treatment over dismissive behavior; and we combine free speech with reasoned expression so that liberty and peace are both served.

Prepare for a life of COURAGEOUS LEADERSHIP

Virginia Tech students will be courageous leaders who serve as change agents and make the world more humane and just.

Virginia Tech students will be courageous leaders who are willing to challenge the status quo in pursuit of a more humane and just world. They will have the fortitude to speak up when they witness an injustice and reach out to those who are vulnerable, marginalized, or in need. Courageous leadership is possible whether or not the individual is in a position of responsibility. Virginia Tech students will inspire others with their actions, changing the world one decision at a time.

Embrace *UT PROSIM* as a way of life

Virginia Tech students will enrich their lives through service to others.

The university motto, *Ut Prosim* – That I May Serve, and the *Principles of Community* will stand as a foundation for the development of personal relationships, physical spaces, and intercultural experiences, which create communities. Within, these communities compel students to understand and develop a value system that will guide their decisions and enable them to offer themselves as responsible citizens of the world.

Adopted 5-26-2010



Guiding Principles for Service

WE WILL FOSTER A COMMUNITY OF EXCELLENCE AND OPPORTUNITY THROUGH LEARNING, SERVICE, RESPECT, AND INNOVATION

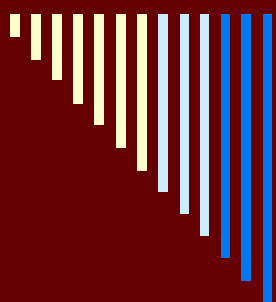
LEARNING: We will advocate lifelong learning by challenging and supporting students and staff to pursue intellectual, personal and professional development while embracing a variety of life experiences.

SERVICE: We will, in the spirit of *Ut Prosim*, provide a quality experience for students, colleagues and customers that uphold or exceeds expectations.

RESPECT: We will embrace the *Principles of Community* which value inclusiveness and diversity, understanding that every individual should be treated with dignity, courtesy and kindness.

INNOVATION: We will continually examine our practices seeking creative and efficient ways to improve while balancing the needs of today and preserving the resources of tomorrow.

Adopted 5-26-2010

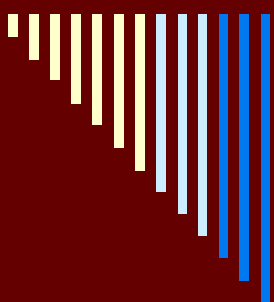


Student Affairs Overview & Update

Virginia Tech Board of Visitors Student Affairs and Athletics Committee

Edward F.D. Spencer, Ph.D.
Vice President for Student Affairs

August 30, 2010



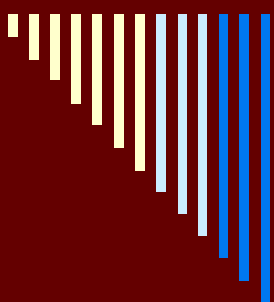
Overview

➤ **Leadership**

The Vice President for Student Affairs provides leadership to a division comprised of 16 departments. An Associate Vice President, two Assistant Vice Presidents, the Commandant of the Corps of Cadets, the Dean of Students, and the Chief of Staff provide daily oversight to specific departments and programs.

➤ **Employees**

The division is one of the largest employers at Virginia Tech, with over 2,600 faculty, staff, wage, student employees, and graduate assistants.



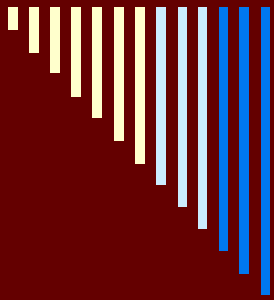
Overview (continued)

➤ **Budget**

The 2010-11 operating budget for the Division of Student Affairs totals approximately \$103 million, of which \$1.6 million are Education and General funds and over \$1.3 million are Unique Military Activities funds. The remaining \$100 million in Auxiliary Enterprises accounts for 48% of the university's total Auxiliary Enterprise funds.

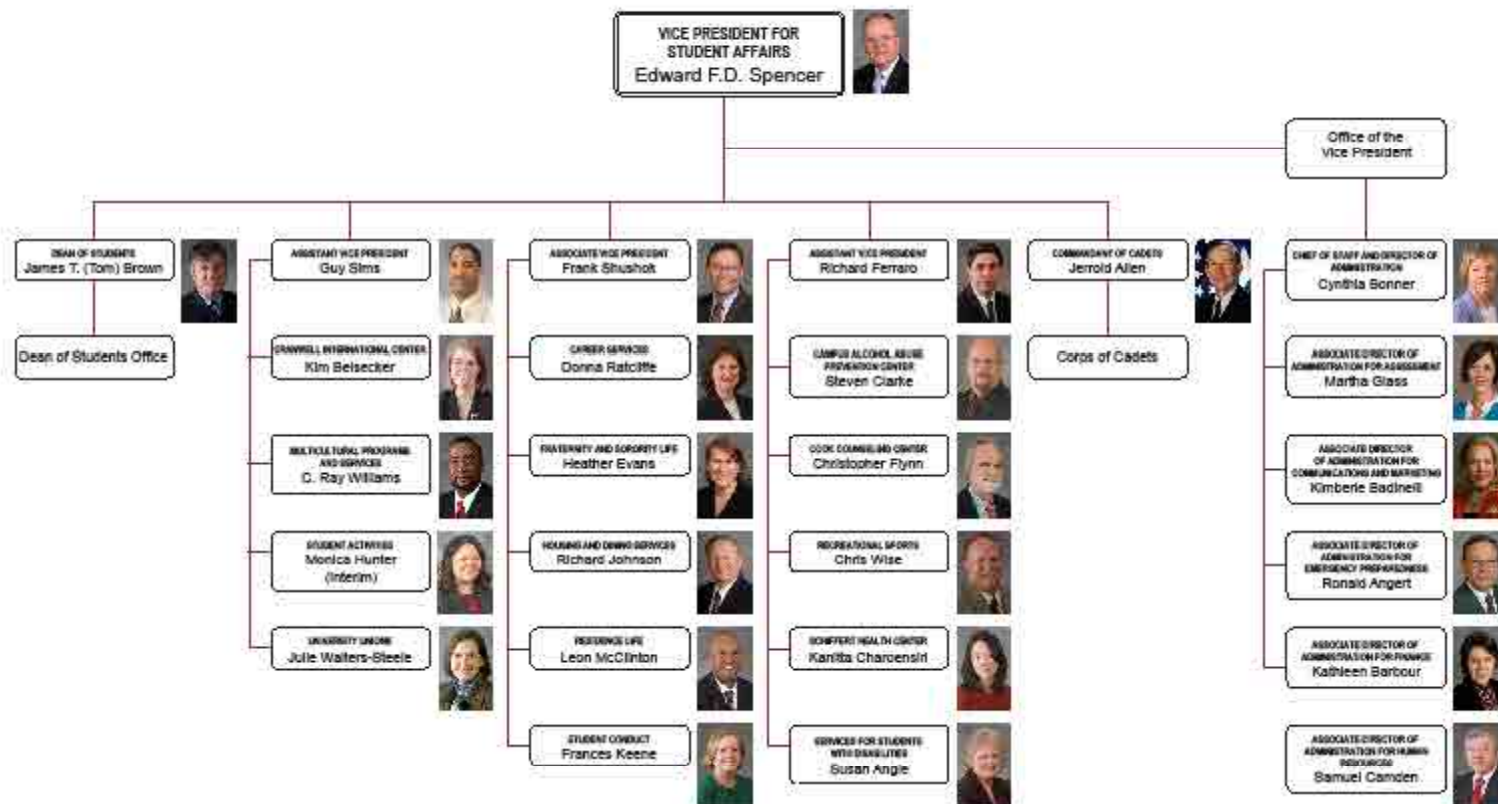
➤ **Facilities**

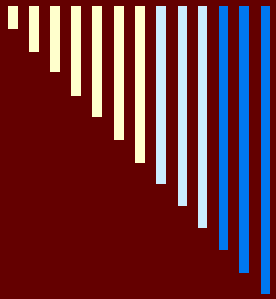
The Division of Student Affairs is responsible for an extensive physical plant consisting of nearly 1.6 million assignable square feet and over 60 buildings across the campus. This represents approximately 28% of the total assignable square feet on the Virginia Tech campus. These include 11 dining facilities and 46 residence halls.



Departments

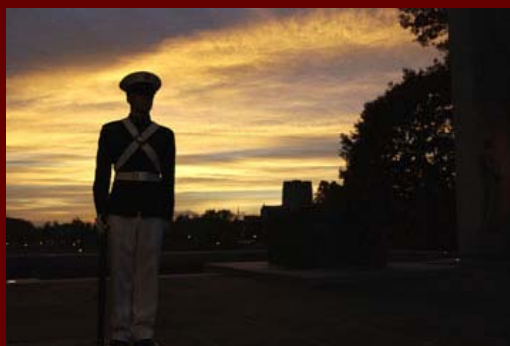
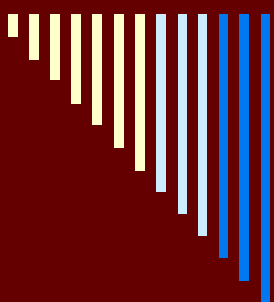
- Alcohol Abuse Prevention Center
- Career Services
- Cook Counseling Center
- Corps of Cadets
- Cranwell International Center
- Dean of Students Office
- Fraternity and Sorority Life
- Housing and Dining Services
- Multicultural Programs and Services
- Recreational Sports
- Residence Life
- Schiffert Health Center
- Services for Students with Disabilities
- Student Activities
- Student Conduct
- University Unions





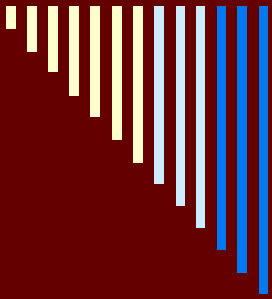
Issues for Student Affairs

- Consumerism
- Campus Climate
- Technology and Students' Expectations
- Aging and Inadequate Facilities
- Increased Mental Health Needs
- Violence
- Alcohol and Drug Abuse
- Conflict Resolution and Civility
- Unethical Behavior



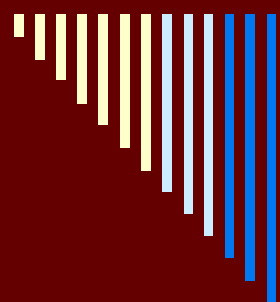
Virginia Tech Division of Student Affairs Strategic Goals

- To enhance facilities in keeping with the university's peers
- To strengthen the partnership between Student Affairs and Academic Affairs
- To enrich programs and services to attract top-tier students
- To develop “best practice” living and learning communities
- To strengthen and develop intentional student leadership initiatives



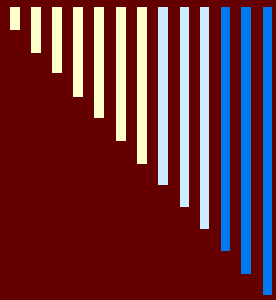
Virginia Tech Division of Student Affairs Strategic Goals (continued)

- To improve campus climate creating a civil and just community for all Virginia Tech students
- To enhance the cultural competencies of the Virginia Tech community and create an inclusive and welcoming environment for all students
- To develop initiatives that more effectively address student alcohol abuse
- To strengthen partnerships to support the division's \$3 million campaign
- To prepare ethical leaders for a global society



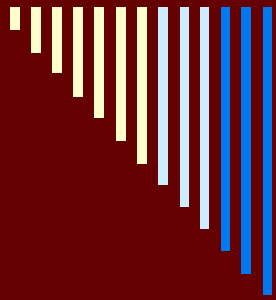
Student Affairs Highlights from 2009 - 2010

- Revised the Division of Student Affairs *Mission Statement*
- Developed divisional *Aspirations for Student Learning*
- Implemented *Guiding Principles for Service* in the division
- Completed and opened New Hall West, a state-of-the-art residence hall and office building
- Achieved 92% of division's \$3 million campaign goal
- Developed a proposal for the expansion of Greek housing in the Oak Lane Community through a partnership with the Greek house corporation



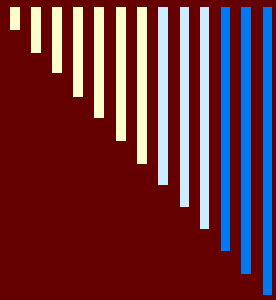
2009-2010 Highlights, continued

- Conducted three departmental program reviews and one comprehensive departmental assessment
- Honored with multiple awards for recently-published guide for new students, *You're In, Now What?*
- Hired 10 new A/P faculty members, 20% from under-represented groups and 70% females
- Achieved 99.6% completion rate among first year students of online alcohol education program
- Initiated the Pre-Health Advising Program in Career Services
- Opened satellite counseling center offices in East Eggleston Hall, the Graduate Life Center, and the Vet-Med School



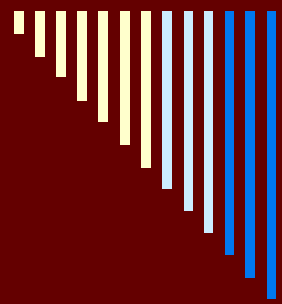
2009-2010 Highlights, continued

- Increased Corps of Cadets applications by 22% and anticipate a 23% increase in new cadets for fall 2010
- Initiated the Global Ambassadors Leadership Program in Cranwell International Center
- Hired an Assistant Dean of Students to work with off-campus students and enhance community relations
- Ranked #1 for Best Campus Food by The Princeton Review
- Provided more than 180 cultural awareness and educational programs through Multicultural Programs and Services
- Constructed an addition to McComas Hall recreation facility that will open fall 2010



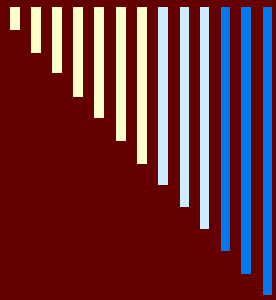
2009-2010 Highlights, continued

- Established a new residence hall theme community, SERVE, focused on community service
- Received reaccreditation of Schiffert Health Center
- Partnered with ADA services to provide resources and services for students who are returning veterans and wounded warriors
- Raised over \$562,000 for the American Cancer Society, the highest amount generated by any college or university Relay for Life
- Adjudicated over 2,300 individual student conduct incidents
- Provided event management in the university unions for over 15,700 activities and events



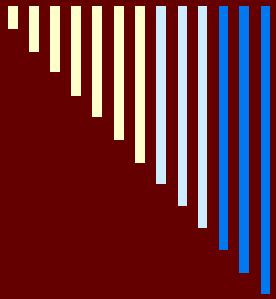
Student Affairs Preview for 2010-2011

- Open addition to Recreational Sports facilities in McComas Hall
- Continue three-year renovation of Ambler Johnston Hall
- Break ground for new Dining/Academic Building that will replace Shultz Dining Hall
- Finalize MOUs and leases for construction of Phase IV Greek Housing
- Develop plans to improve and upgrade Division of Student Affairs facilities
- Implement ACUI consultant recommendations that will strengthen the facilities, programs, services, and staffing of University Unions and Student Activities

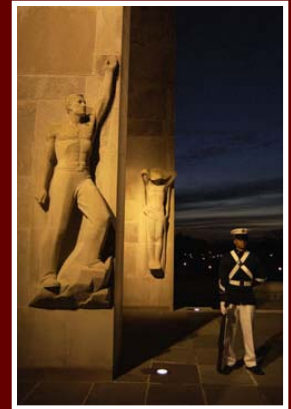


2010-2011 Preview, continued

- Collaborate with academic units to implement approved QEP projects
- Enroll the highest number of students in Corp of Cadets since 1969
- Implement as many Alcohol Abuse Prevention Task Force recommendations as feasible.
- Realize division's \$3 million goal in the Campaign for Virginia Tech
- Continue collaboration to recruit and retain a diverse population of students, faculty, and staff



Questions?





Division of Student Affairs
New Mission Statement
and Learning Outcomes

The mission of the Division of Student Affairs is to promote student learning, life skills, and personal growth through a strong focus on holistic student development and collaborative partnerships that deliver superior service to, and care for, students in the spirit of *Ut Prosim* (*That I May Serve*).

Mission Statement





❖ **Commit to unwavering CURIOSITY**

Virginia Tech students will be inspired to lead lives of curiosity, embracing a life-long commitment to intellectual development.

❖ **Pursue SELF-UNDERSTANDING and INTEGRITY**

Virginia Tech students will form a set of affirmative values and develop the self-understanding to integrate these values into their decision-making.

❖ **Practice CIVILITY**

Virginia Tech students will understand and commit to civility as a way of life in their interactions with others.

Learning Outcomes

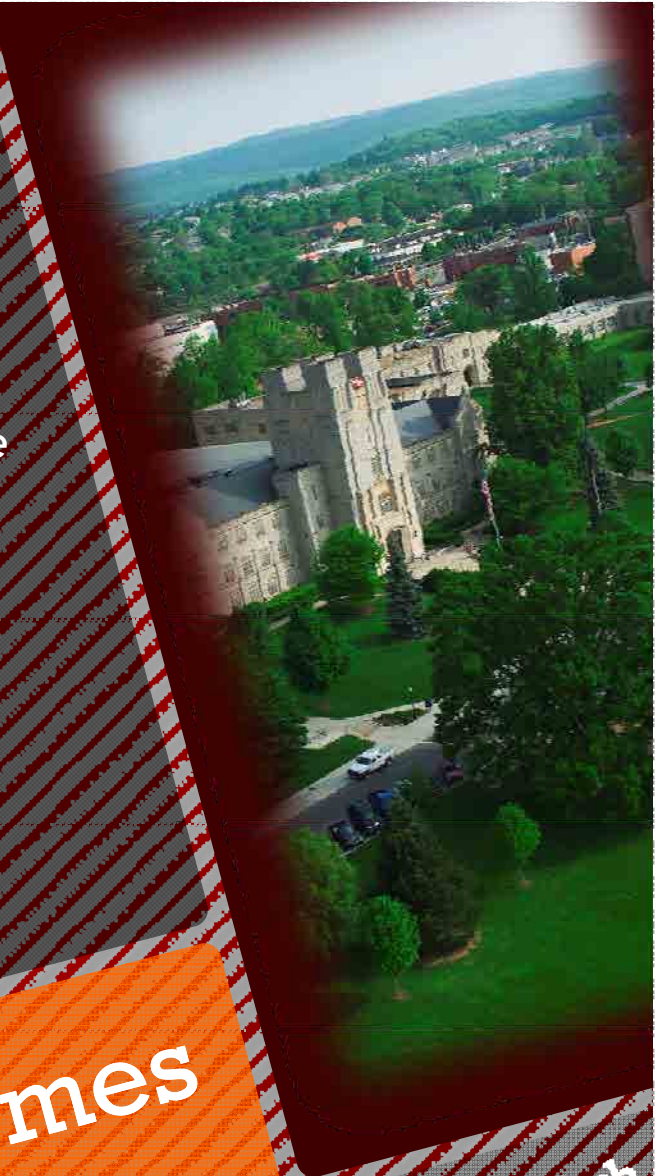
📌 **Prepare for a life of COURAGEOUS LEADERSHIP**

Virginia Tech students will be courageous leaders who serve as change agents and make the world more humane and just.

📌 **Embrace UT PROSIM (That I May Serve) as a way of life**

Virginia Tech students will enrich their lives through service to others.

Learning Outcomes



**WE WILL FOSTER A COMMUNITY OF EXCELLENCE
AND OPPORTUNITY THROUGH LEARNING, SERVICE,
RESPECT, AND INNOVATION**

LEARNING: We will advocate lifelong learning by challenging and supporting students and staff to pursue intellectual, personal and professional development while embracing a variety of life experiences.

SERVICE: We will, in the spirit of *Ut Prosim*, provide a quality experience for students, colleagues and customers that uphold or exceeds expectations.

Guiding Service Principles

RESPECT: We will embrace the *Principles of Community* which value inclusiveness and diversity, understanding that every individual should be treated with dignity, courtesy and kindness.

INNOVATION: We will continually examine our practices seeking creative and efficient ways to improve while balancing the needs of today and preserving the resources of tomorrow.

Guiding Service Principles



New Student Orientation

	2009	2010
Freshmen	5092	5311
Attended	4900	5054
%	97.56%	98.01%*
Guests	7527	7904
Transfer	948	1055
Attended	748	900
%	78.90%	85.3%

Attendance

Students

Positive Experience?

98.17%

Enough Information?

76.39%

Confident &
Comfortable?

95.23%

Mission Statement



Academic session in Parents as Partners



Student only Interest Session



Tradition Walk

New in 2010

HOKIECAMP



Hokie Camp

 Virginia Tech
Center for Student Affairs

HOKIE CAMP **Freshmen and Transfer Students**

HOKIE CAMP **Supplement Orientation**

HOKIE CAMP **Traditions Camp – Extended Orientation**

HOKIE CAMP **Mission** - *Hokie Camp strives to welcome new students into the Hokie Family by creating a support system that allows them to build relationships, foster the principles of community and share in the Hokie Spirit.*

Hokie Camp



Virginia Tech
Office of Student Affairs

HOKIE CAMP **W.E. Skelton 4-H
Educational Conference
Center at Smith Mt. Lake**

HOKIE CAMP **3 day – 2 night**

HOKIE CAMP **Bused from Virginia Tech**

Hokie Camp Structure



HOKIE CAMP *Building Groups – 14 new
Hokies – 2 HCC's*

HOKIE CAMP *Color Groups – 5 BGs*

HOKIE CAMP *Black*

HOKIE CAMP *Gray*

HOKIE CAMP *Red*

HOKIE CAMP *Yellow*

HOKIE CAMP *Blue*

Hokie Camp Structure



HOKIECAMP *Professional Staff – Dean of Students/New Student Programs*

HOKIECAMP *Student Staff*

HOKIECAMP *2 Student Directors*

HOKIECAMP *5 Executive Team*

HOKIECAMP *150 Counselors*

Hokie Camp Staffing



HOKIECAMP 5 – 2 hour blocks

HOKIECAMP Traditions

HOKIECAMP Low Ropes

HOKIECAMP BG Rec Sports

HOKIECAMP Free Time (recreation)

HOKIECAMP Academics/Getting Involved

HOKIECAMP Ut Prosim

HOKIECAMP Mentoring – Fall Semester

Hokie Camp Curriculum



HOKIE CAMP *3 sessions*

HOKIE CAMP *August 9-11*

HOKIE CAMP *August 12-14*

HOKIE CAMP *August 16 - 18*

HOKIE CAMP *700 Student Attended*

HOKIE CAMP *Transfer and Freshmen Students*

Hokie Camp 2010



HOKIE HI!



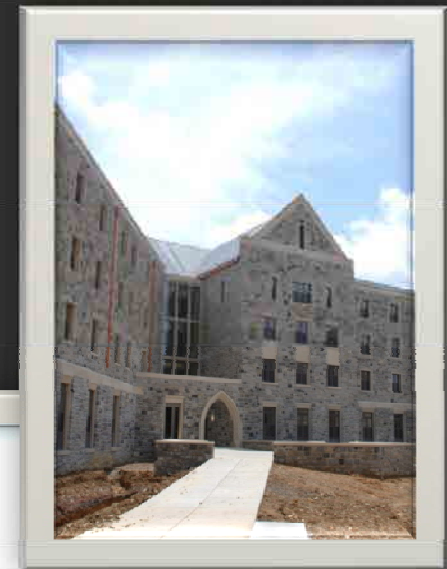
- **August 19 – September 3**
- **Hokie Helpers**
- **Gobblerfest**
- **Welcome Back Picnic**
- **Movie on Drillfield**
- **Pizza Bonanza**

Hokie Hi
Welcome Week

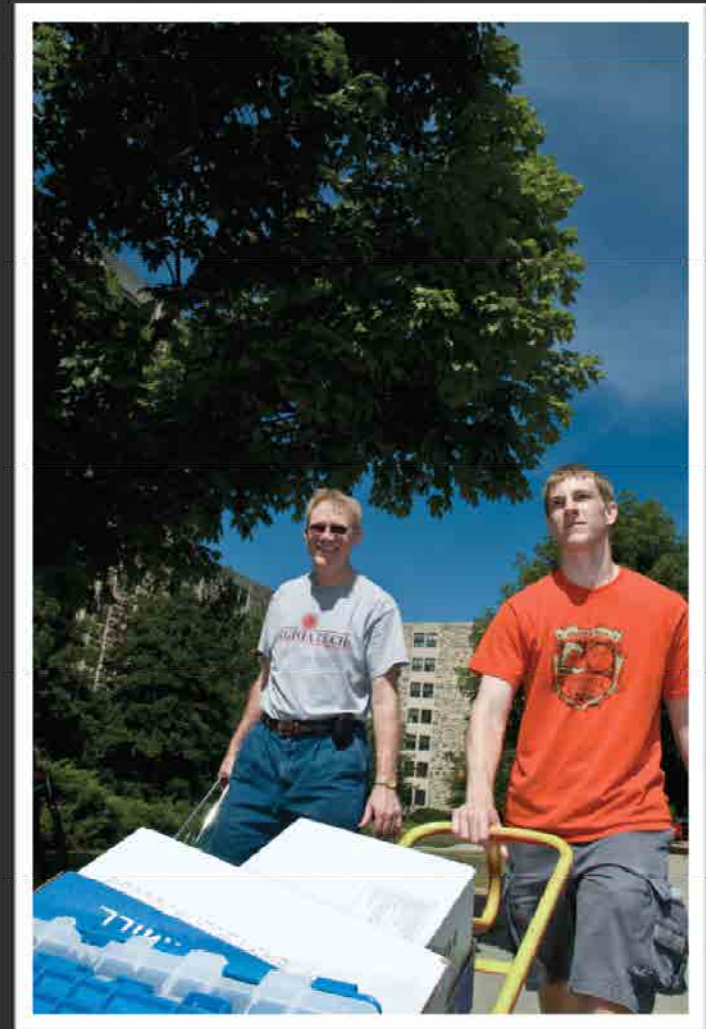


Housing and Dining Services

- ❑ Fall Opening
- ❑ Ambler Johnston Hall – East
- ❑ Summer Renovation Projects
- ❑ Sustainability
- ❑ Dining Services
Recognition



Housing and Dining Services Fall Opening



Housing and Dining Services

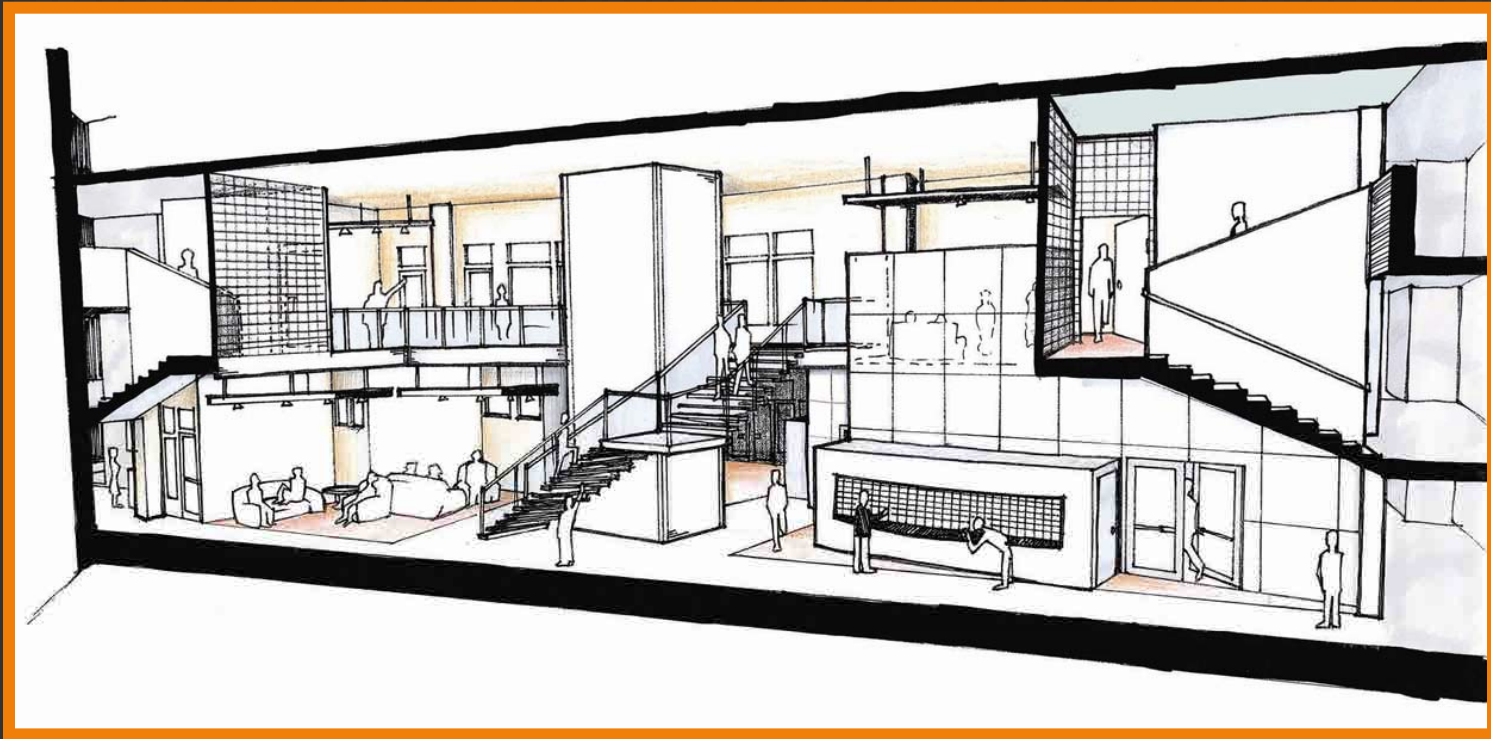
Hokie Hi Welcome Back Picnic

□ August 22nd



Housing and Dining Services Ambler Johnston Hall – East: Progress Report

- Opening Fall 2011
- Project cost - \$72.1 million



Housing and Dining Services

Summer Renovation Projects

- ❑ Lee Hall Elevators - \$650,000
- ❑ Miles Hall Bathrooms and more - \$889,730
- ❑ Peddrew-Yates Floor Coverings - \$156,000
- ❑ Montieth Hall Exterior and more - \$135,652
- ❑ Total summer work for Residence Halls - \$2.8 Million



Housing and Dining Services Sustainability



Housing and Dining Services

Sustainability

□ Farms and Fields Project



Housing and Dining Services Sustainability

- Ambler Johnston Hall – East
- LEED Silver



Housing & Dining Services

Dining Services Recognition

- ❑ Princeton Review - #1 in 2010
- ❑ Parents and Colleges - #3 for Best College Eats
- ❑ Food Management Magazine – Best Concept for Catering Special Event





Residence Life Updates

Leon McClinton, Ph.D.
Director of Residence Life

August 11, 2010



Hokie Helpers

- New volunteer move-in program
- Staff, Faculty, and Students involved
- Format description

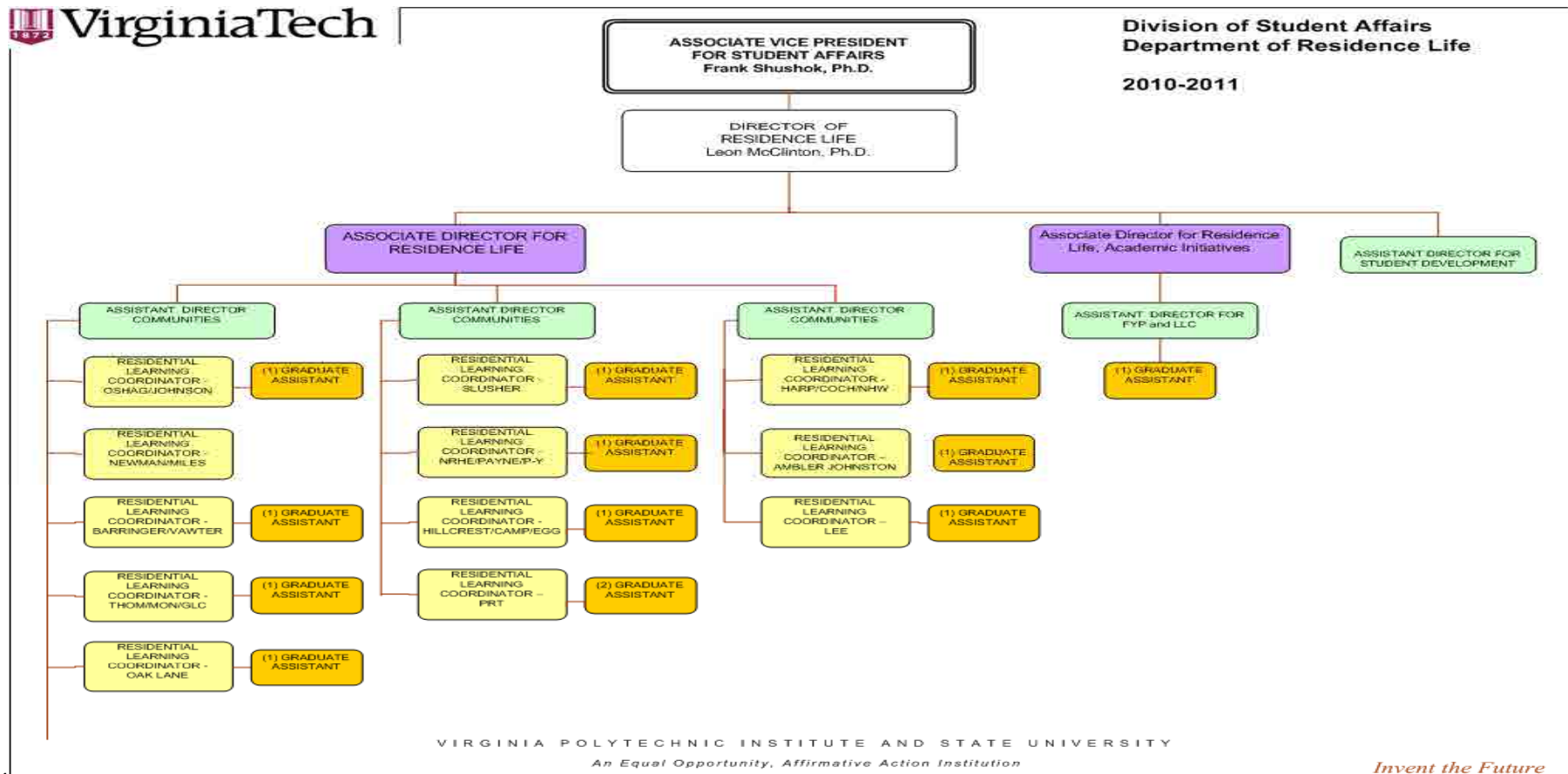


New Departmental Philosophy

- Reallocation of resources
- Student learning
- Meaningful communication
- Impact Living Learning Communities



Organizational Chart - 2010 – '11





2009 – 2010 Resident Survey Results

- Students in theme communities reported higher levels of learning than non-theme students
- Students who were more involved in their communities reported higher levels of learning
- Students who connected more frequently with their RA reported higher levels of learning



New Vision for Living Learning Communities

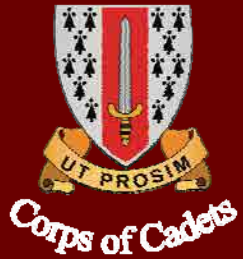
- Integration of Courses- exploring a topic through a multidisciplinary perspective
- Engagement and Experiential Learning- connect the curricular learning to co-curricular (out of class)
- Active Citizenship on a local and global level
- Faculty Connections - opportunities for students to have meaningful interactions with faculty
- Interdisciplinary/Multidisciplinary in Approach - increase opportunities for students to learn from one another



Partnership with the Director of First Year Experiences

- Joint committee of faculty and administrators developed “lesson plans” and activities from which RAs can use
- Facilitate learning on the common book

Virginia Tech



The Virginia Tech Corps of Cadets



*Training Leaders for the Future
"That I May Serve"*



**Major General Jerry Allen
Commandant of Cadets**



2010-2015 Strategic Goals



- Continuously Improve the Leader Development Program
- Achieve the Optimal Corps Size of 1000 or More Cadets
- Improve Facilities
- Grow the Endowment



Commandant's Vision for the VTCC



**To graduate leaders of exemplary
character with:**

- The highest standards of honor and integrity**
- Dedication to service – Ut Prosim**



Cadets Jesse Johnson, Adam Smith, and Joanna Shivers accepting the 2009 Governor's Award for Volunteerism and Community Service from Governor Tim Kaine. The Corps performed over 7,000 hours of community service last year.

Virginia Tech



Corps of Cadets

Cadet Achievements

(1999-2010)



- **Number ONE Marine** graduate out of 700 at OCS, 2009
- **University Man of the Year** in 1999, 2000, 2004, 2006
- **University Undergraduate Leader of the Year** in 2004, 2005, 2006, 2007, 2008, 2009 and 2010 (two females, five males)
- **Top Navy Midshipman in the entire nation** for 2001 and 2005 (150 schools eligible)
- In 2007 and 2008, cadets won the **Medal of Honor Foundation/Armed Forces Communications and Electronics Assoc scholarship** - - four winners are chosen nationwide and Virginia Tech is the only school to ever win this award in consecutive years





Cadet Achievements



#1 Ranked Army ROTC Program

- For 4 consecutive years, Virginia Tech cadets have outperformed all Senior Military Colleges (SMCs) at Army Summer Camp
 - In 2009, Virginia Tech cadets had the highest pass rate (100%) and outscored all SMCs in land navigation and physical fitness
 - 24.5% of Virginia Tech cadets won the RECONDO award; 15% Citadel, 9.4% Texas A&M; 8.6% VMI; National Average: 10.6%
 - For two consecutive years, winners of the Army 10-Miler, ROTC Division

Strong Academics & Top Commissioning Rate

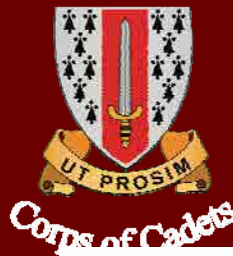
- The VTCC has a strong academic success program; for spring semester '10, the Corps average QCA was 3.03 and 395 cadets earned 3.0 or better
- 80% of Corps grads earn commissions vice 35-55% at VMI, Citadel, Texas A&M -- Ut Prosim!



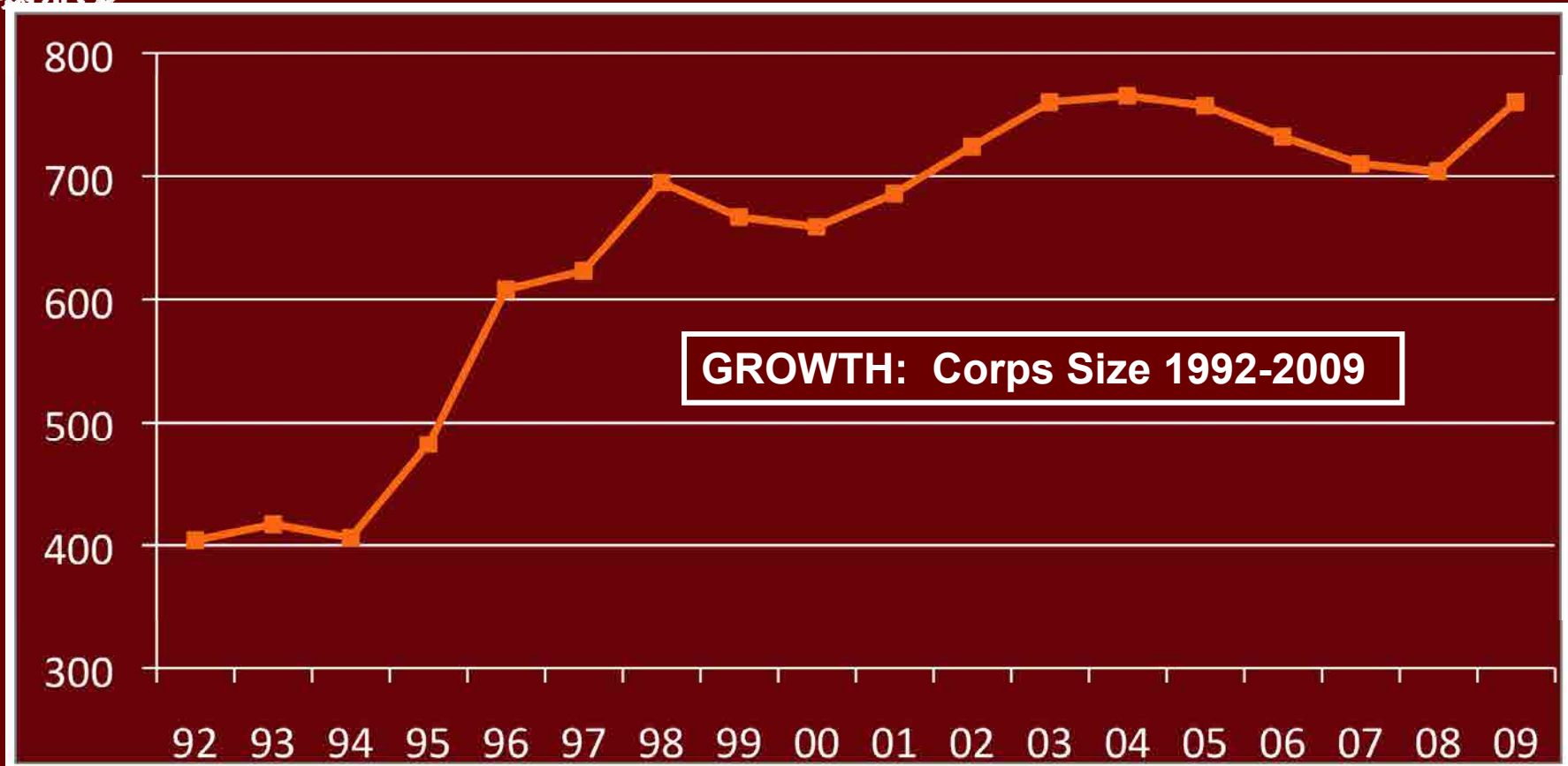
Three of the Superstars of the Class of 2010 (from left to right):

John Steger, who dual-majored in history and political science and graduated with a 3.84 GPA and the leadership minor, John was the fall 2009 Regimental Commander, the Undergraduate Student Leader of the Year for the university, and the outstanding senior in the College of Liberal Arts and Human Sciences; Alexandra Greif, who majored in sociology and graduated with a 3.54 GPA and the leadership minor, Allie was the Spring 2010 Band Company Commander and was honored as the top company commander of the year; Peter Laclede, who dual-majored in history and political science and graduated with a 3.52 GPA and the leadership minor, Peter was the Spring 2010 Regimental Commander, received the Cincinnatus Award for Leadership, and was one of the two students primarily responsible for the planning and execution of the events remembering April 16th this year. All three were commissioned into the armed forces in May.

Virginia Tech



Corps and Alumni Initiatives and Achievements



- Emerging Leader Scholarship Program
- Major General Tom Rice Center for Leader Development

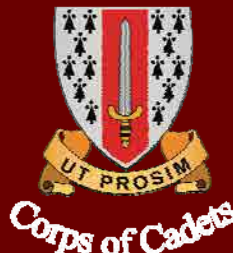


Corps Leader Development Program



- **Cadet Honor Code**
- **Major General Tom Rice Center for Leader Development**
 - **Cutchins Lecture Series**
 - **Academic Minor in Leadership Studies**
 - **Leaders in Action Lecture Series**
 - **Management 2944/Cadet Leader School for all cadets**
 - **Management 2984/4984 for civilian track cadets**
- **The VTCC is a 24/7 Leadership Laboratory**

Virginia Tech



Capital Campaign

To Guarantee an Enduring Corps of Cadets



What The Corps Needs for the Future

- To build the Emerging Leader Scholarship
- Rice Center for Leader Development Enhancement
- Lane Hall Renovation/Addition





***Help build leaders for the future
in the
Virginia Tech Corps of Cadets***



RESEARCH AND DEVELOPMENT DISCLOSURE REPORT
May 6, 2010 through July 23, 2010

Reason for Conflict	External Entity	Owner	Principal Investigator	Co - P.I.'s	College	Period of Performance	Award Amount	Project Description
Faculty Owned Business	Aeroprobe Corp.	Demetri Telionis	Saad Ragab		Engineering, Science & Mechanics	5-1-10 thru 4-30-12	\$70,001	Aeroprobe Corporation has subcontracted to VT for work involving design and development of a fast-response air probe for a NASA funded project.
Faculty Owned Business	SMD Corporation	Chris R. Fuller	Chris Fuller	Research Oversight Committee	ME/VAL	TBD	\$50,001	SMD Corporation has submitted a Phase 1 STTR proposal. If awarded they seek to subcontract to VT for work involving external monitoring of piping sound pressure levels and developing models of fluid-filled pipes and wire sensors.
Faculty Owned Business	NBE Technologies, LLC	Guo-Quan Lu	Khai Ngo		CPES	12-1-10 thru 11-30-12	\$300,000	NBE Technologies has submitted a SBIR Phase II proposal to US Dept. of Energy. If awarded NBE seeks to subcontract to VT to develop a high temperature power module for an electric car.
Faculty Owned Business	Forest Carbon Offsets LLC	Jefferson Waldon	Scott Klopfer	Verl Emrick	Conservation Mgmt Institute	TBD	\$186,976	Forest Carbon Offsets seeks to subcontract to VT to provide analysis of field data and technical assessment to identify potential for tree growth and carbon sequestration in Belize.
Faculty Owned Business	Forest Carbon Offsets LLC	Jefferson Waldon	Scott Klopfer	Verl Emrick	Conservation Mgmt Institute	TBD	\$32,851	Forest Carbon Offsets seeks to subcontract to VT to provide data analysis on biomass, biodiversity and social impacts data from locations in South America.
Faculty Owned Business	Forest Carbon Offsets LLC	Jefferson Waldon	Ken Convery	Verl Emrick	Conservation Mgmt Institute	TBD	\$108,263	Forest Carbon Offsets seeks to subcontract to VT to implement monitoring protocols at Boden Creek Ecological Preserve in Belize.

RESOLUTION OF APPRECIATION HONORING BEN J. DAVENPORT, JR.

WHEREAS, Mr. Ben J. Davenport, Jr. was appointed to Virginia Polytechnic Institute and State University's Board of Visitors on July 1, 2002 and reappointed for a second term ending June 30, 2010; and,

WHEREAS, Mr. Davenport is a loyal and dedicated alumnus, and a member of the Class of 1964, having earned a Bachelor of Science degree in Business from the Pamplin College of Business; and,

WHEREAS, during his years of service on the Board of Visitors, Mr. Davenport was a member of all of six committees of the Board of Visitors, and served as Chair of the Executive Committee, Academic Affairs Committee, Research Committee, and Student Affairs and Athletics Committee; and as Chair of the Board's ad hoc Committee on the Narrow-Tailoring Concept in 2003-04; and,

WHEREAS, for his dedication and leadership, Mr. Davenport was elected to serve as Vice Rector of the Board in 2003 and as Rector from 2004 to 2006; and,

WHEREAS, as then-Rector of the Board, Mr. Davenport was a signatory of Virginia Tech's "Principles of Community" in 2005; and,

WHEREAS, Mr. Davenport provided exceptional leadership to the Board during one of the most challenging periods in the university's history – during the tragedy of April 16, 2007, and its aftermath; and,

WHEREAS, Mr. Davenport was a driving force behind efforts to revitalize the economy of Southside Virginia, championing the Institute for Advanced Learning and Research in Danville, which was created in 2004 with Virginia Tech as an academic partner; and,

WHEREAS, demonstrative of his extensive dedication to the university and its programs are Mr. Davenport's many years of service and leadership on the Pamplin Advisory Council, the Virginia Tech Foundation, Inc. Board, and the Virginia Bioinformatics Institute Policy Advisory Board; and,

WHEREAS, Mr. Davenport also has served his alma mater by participating in the Hokies for Higher Education initiative, as a member of both university and college level campaign councils, and through his exceptional generosity to Virginia Tech, recognized by his membership in the *Ut Prosim* Society President's Circle; and,

WHEREAS, during his years of service, Mr. Davenport has provided great leadership and vision on behalf of the university's missions and aspirations; and,

WHEREAS, the members of the Board have thoroughly enjoyed getting to know Ben and his wife, Betty, and have greatly enjoyed their company at Board meetings, football games, and other university events;

NOW, THEREFORE, BE IT RESOLVED, that the members of the Board of Visitors of Virginia Polytechnic Institute and State University do hereby extend their sincere appreciation to Ben J. Davenport, Jr. for his outstanding loyalty and devoted service to his alma mater, and for his faithful dedication to the university and its missions.

RECOMMENDATION:

That the above resolution recognizing Ben J. Davenport, Jr. for his service as Rector and a member of the Board of Visitors be approved.

August 30, 2010

RESOLUTION OF APPRECIATION HONORING JOHN R. LAWSON, II

WHEREAS, Mr. John R. Lawson, II was appointed by the Governor of Virginia to Virginia Polytechnic Institute and State University's Board of Visitors on July 1, 2002, and reappointed in 2006 for a second term ending June 30, 2010; and,

WHEREAS, Mr. Lawson is a loyal and dedicated alumnus, and a member of the Class of 1975, having earned a Bachelor of Science degree in Geophysics; and,

WHEREAS, during his years of service on the Board of Visitors, Mr. Lawson was a member and Chair of both the Executive Committee and the Buildings and Grounds Committee; and was a member of the Research Committee; and,

WHEREAS, for his dedication and leadership, Mr. Lawson was elected to serve as Vice Rector of the Board from 2006 to 2008 and as Rector from 2008 to 2010; and,

WHEREAS, Mr. Lawson provided exceptional leadership to the Board during one of the most challenging periods in the university's history – during the tragedy of April 16, 2007, and its aftermath; and,

WHEREAS, demonstrative of his extensive dedication to the university and its programs are Mr. Lawson's many years of service and leadership on the Building Construction Advisory Board, the Myers-Lawson School of Construction Board, and the Virginia Tech Foundation, Inc. Board, and his involvement with the Hokies for Higher Education initiative; and

WHEREAS, as Co-chair of the National Campaign Steering Committee for the \$1 Billion Campaign for Virginia Tech and a member of the *Ut Prosim* Society President's Circle, Mr. Lawson has generously supported numerous programs of the university, most notably providing funding for the the Myers-Lawson School of Construction, which was named in honor of Mr. Lawson and his former fraternity brother; and,

WHEREAS, Mr. Lawson has provided great leadership and vision for the university's missions and aspirations, and his expertise in large-scale commercial construction was invaluable to the Lane Stadium West Side Expansion project and the Center for the Arts project; and,

WHEREAS, the members of the Board have thoroughly enjoyed getting to know John and his wife, Paige, and have enjoyed their company at Board meetings, football games, and other university events;

NOW, THEREFORE, BE IT RESOLVED, that the members of the Board of Visitors of Virginia Polytechnic Institute and State University do hereby extend their sincere appreciation to John R. Lawson, II for his outstanding loyalty and devoted service to his alma mater, and for his faithful dedication to the university and its missions.

RECOMMENDATION:

That the above resolution recognizing John R. Lawson, II for his service as Rector and a member of the Board of Visitors be approved.

August 30, 2010

RESOLUTION OF APPRECIATION HONORING JAMES R. SMITH

WHEREAS, Mr. James R. (Jim) Smith was appointed to Virginia Polytechnic Institute and State University's Board of Visitors on July 1, 2006 to serve a four-year term that ended June 30, 2010; and,

WHEREAS, Mr. Smith is a loyal and dedicated alumnus, and a member of the Class of 1974, having earned a Bachelor of Science degree in Sociology; and,

WHEREAS, during his years of service on the Board, Mr. Smith was a member of the Academic Affairs Committee, the Research Committee, and the Executive Committee, and most recently served as Chair of the Buildings and Grounds Committee; and,

WHEREAS, Mr. Smith served on the Board during one of the most challenging periods in the university's history – during the tragedy of April 16, 2007, and its aftermath; and,

WHEREAS, Mr. Smith also has served his alma mater by participating on the Campaign Steering Committee for the College of Liberal Arts and Human Sciences, the Campaign Committee for the Roanoke Valley, and the Pamplin Advisory Council; and,

WHEREAS, Mr. Smith has exhibited his commitment to the development and future of Virginia Tech through his own generosity as displayed by his membership in the *Ut Prosim* Society as a Senior Benefactor; and,

WHEREAS, during his years of service, Mr. Smith's expertise in the areas of health care and real estate development was invaluable to the establishment of the Virginia Tech Carilion School of Medicine and Research Institute and the construction of the facility in Roanoke; and,

WHEREAS, the members of the Board have thoroughly enjoyed getting to know Jim and his wife, Augustine, and have enjoyed their company at Board meetings, football games, and other university events;

NOW, THEREFORE, BE IT RESOLVED, that the members of the Board of Visitors of Virginia Polytechnic Institute and State University do hereby extend their sincere appreciation to James R. Smith for his loyalty and devoted service to his alma mater, and for his faithful dedication to the university and its missions.

RECOMMENDATION:

That the above resolution recognizing James R. Smith for his service as a member of the Board of Visitors be approved.

August 30, 2010

RESOLUTION OF APPRECIATION HONORING DR. LORI L. WAGNER

WHEREAS, Dr. Lori L. Wagner was appointed to Virginia Polytechnic Institute and State University's Board of Visitors on July 1, 2006 to serve a four-year term; and,

WHEREAS, Dr. Wagner is a loyal and dedicated alumna, having earned a B.S. degree in 1982 and a Ph.D. degree in 1987, both in Chemical Engineering from the College of Engineering, and was Virginia Tech's Outstanding Woman Graduate in 1996; and,

WHEREAS, during her years of service on the Board, Dr. Wagner served on the Research Committee, the Student Affairs and Athletics Committee, and the Executive Committee; and most recently was Chair of the Academic Affairs Committee; and,

WHEREAS, Dr. Wagner served on the Board during one of the most challenging periods in the university's history – during the tragedy of April 16, 2007, and its aftermath; and,

WHEREAS, her dedication to the university is demonstrated by Dr. Wagner's service on the Engineering Committee of 100, the Center for the Enhancement of Engineering Diversity Industrial Advisory Council, and the Chemical Engineering Advisory Board, as well as her receipt of the College's Outstanding Service Award in 2001; and,

WHEREAS, Dr. Wagner also has served her alma mater by helping cultivate Virginia Tech partnerships with her employer, Honeywell International, and through her own generosity, as demonstrated by her membership in the Legacy Society; and,

WHEREAS, during her years of service, Dr. Wagner has provided great leadership and vision and has been a strong advocate for the university's diversity initiatives; and,

WHEREAS, the members of the Board have thoroughly enjoyed getting to know Lori and her husband, Steve, and have enjoyed their company at Board meetings, football games, and other university events;

NOW, THEREFORE, BE IT RESOLVED, that the members of the Board of Visitors of Virginia Polytechnic Institute and State University do hereby extend their sincere appreciation to Lori Wagner for her outstanding loyalty and devoted service to her alma mater, and for her faithful dedication to the university and its missions.

RECOMMENDATION:

That the above resolution recognizing Dr. Lori L. Wagner for her service as a member of the Board of Visitors be approved.

August 30, 2010



Atlantic Coast Conference

Governing Board Certification Form Academic Year 2010-11

As Chairman of the Governing Board at **Virginia Polytechnic Institute & State University**, I attest that:

- 1) Responsibility for the administration of the athletics program has been delegated to the Chief Executive Officer of the Institution.
- 2) The Chief Executive Officer has the mandate and support of the board to operate a program of integrity in full compliance with NCAA, ACC and all other relevant rules and regulations.
- 3) The Chief Executive Officer, in consultation with the Faculty Athletics Representative and the Director of Athletics, determines how the institutional vote shall be cast on issues of athletic policy presented to the NCAA and the ACC.

Date Presented to the Governing Board: _____

Signed: _____
(Chairman of the Governing Board)

Signed: _____
(CEO of Member Institution)

Please return completed form before **October 15, 2010** to:

Commissioner John D. Swofford
Atlantic Coast Conference
P.O. Drawer ACC
Greensboro, NC 27417-6724

RESOLUTION CREATING THE HEALTH SCIENCES DIVISION

WHEREAS, Carilion Clinic, Inc, Virginia Polytechnic Institute and State University ("Virginia Tech"), the Virginia Tech Carilion School of Medicine, and, for certain limited purposes, the Virginia Tech Foundation, Inc. entered into a Memorandum of Understanding outlining an affiliation that resulted in the creation of the Virginia Tech Carilion School of Medicine and the Virginia Tech Carilion Research Institute; and,

WHEREAS, Carilion Clinic, Inc. and Virginia Tech desire to expand their collaborative efforts; and,

WHEREAS, the creation of a Health Sciences Division within Virginia Tech will enhance the interest of both parties;

NOW, THEREFORE, BE IT RESOLVED, that:

1. The President of Virginia Tech hereby is authorized to initiate the creation of the Health Sciences Division at Virginia Tech; and
2. The President of Virginia Tech hereby is authorized to enter into an affiliation agreement memorializing the collaborative relationship between Carilion Clinic, Inc. and Virginia Tech; and
3. The creation and movement of units into the Health Sciences Division will remain subject to applicable accreditation, regulatory, and governmental approval requirements.

RECOMMENDATION:

That the above resolution be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1977 and continuing for 33 years, Dr. Marcus Alley faithfully served Virginia Tech as a faculty member in the Department of Crop and Soil Environmental Sciences in the College of Agriculture and Life Sciences; and

WHEREAS, he made significant national and international contributions to the areas of plant nutrition, nutrient use, and soil-crop management systems; and

WHEREAS, he authored over 60 journal articles, numerous book chapters, review of proceedings and applied publications; and

WHEREAS, he contributed significantly to Cooperative Extension efforts by training and supporting extension agents and agribusiness, government, and agency personnel in new procedures for improving nutrient use efficiency and continuous no-till crop production; and

WHEREAS, with dedication and a strong emphasis on standards, he taught undergraduate courses in soil fertility and management and graduate courses in soil-plant relationships; and

WHEREAS, he served as the major professor for over 20 master's and doctoral students; served on numerous advisory committees for master's and doctoral students; and helped students develop successful careers in academic, public sector, and private industry settings; and

WHEREAS, he received numerous awards for research and extension accomplishments, including being named a Fellow of both the American Society of Agronomy and the Soil Science Society of America; and

WHEREAS, he was elected and served as president of the American Society of Agronomy; and

WHEREAS, he provided many years of distinguished contributions to the department, college, and university through dedicated service on various committees; and

WHEREAS, he served as the W. G. Wysor Professor of Crop and Soil Environmental Sciences;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Mark Alley for his distinguished service to the university with the title of W. G. Wysor Professor Emeritus of Crop and Soil Environmental Sciences.

RECOMMENDATION:

That the above resolution recommending Dr. Mark Alley for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITA STATUS

WHEREAS, beginning in 1985 and continuing for 25 years, Dr. Bonnie Lee Appleton faithfully served Virginia Tech as a faculty member in the Department of Horticulture in the College of Agriculture and Life Sciences; and

WHEREAS, she was instrumental in the development of the department's off-campus graduate degree program; and

WHEREAS, with dedication, she served as instructor of many graduate classes and as major advisor to more than 60 master's students; and

WHEREAS, she ably served the nursery, landscape, and tree care industry of Virginia and beyond through extensive applied research and extension programs;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Bonnie Lee Appleton for her distinguished service to the university with the title of Professor Emerita of Horticulture.

RECOMMENDATION:

That the above resolution recommending Dr. Bonnie Lee Appleton for emerita status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1981 and continuing for 29 years, Dr. Michael Barnes faithfully served Virginia Tech as a faculty member in the Department of Dairy Science in the College of Agriculture and Life Sciences; and

WHEREAS, with dedication, he taught numerous undergraduate courses and served as the academic coordinator and long-time advisor to the Dairy Club; and

WHEREAS, he coached the award-winning undergraduate Dairy Cattle judging team, which won national championships in three of the past four years; and

WHEREAS, he was recognized by his peers and students for excellence in teaching as recipient of the W. E. Wine Award, the American Dairy Science Association's Purina Teaching Award, and multiple Certificates of Teaching Excellence; and

WHEREAS, he was a revered teacher, advisor, and mentor; and

WHEREAS, he conducted original research in reproductive physiology and endocrinology; and

WHEREAS, he was an outstanding department, college, and university citizen;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Michael Barnes for his distinguished service to the university with the title of Professor Emeritus of Dairy Science.

RECOMMENDATION:

That the above resolution recommending Dr. Michael Barnes for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1979 and continuing for 31 years, Dr. William Beal faithfully served Virginia Tech as a faculty member in the Department of Poultry and Animal Sciences in the College of Agriculture and Life Sciences; and

WHEREAS, with dedication, he taught a wide range of courses offered from the undergraduate to advanced graduate levels; and

WHEREAS, he provided effective leadership to the undergraduate advising program in animal and poultry sciences, and served as coordinating counselor and career advisor; and

WHEREAS, he advised and counseled undergraduate and graduate students, served on numerous doctoral committees, and served as major advisor to many doctoral and master's students; and

WHEREAS, he helped students achieve their career goals and encouraged them to contribute to the enhancement of livestock production and management in the U.S. and around the world; and

WHEREAS, he received national recognition for excellence in undergraduate teaching from the American Society of Animal Science, and served in leadership positions in the Virginia Tech Academy of Teaching Excellence and as a charter member of the University Academy of Advising Excellence; and

WHEREAS, he contributed to research to improve the reproductive efficiency of cattle, authored over 50 scientific publications, and made presentations to numerous state, regional, and national meetings of livestock producers and veterinarians;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. William Beal for his distinguished service to the university with the title of Professor Emeritus of Animal and Poultry Sciences.

RECOMMENDATION:

That the above resolution recommending Dr. William Beal for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1983 and continuing for 27 years, Dr. Dennis Blodgett faithfully served Virginia Tech as a faculty member in the Department of Biomedical Sciences and Pathobiology in the Virginia-Maryland Regional College of Veterinary Medicine; and

WHEREAS, with dedication, he taught a wide range of courses offered from undergraduate to professional to advanced graduate levels; and

WHEREAS, he advised and counseled graduate students in the animal science degree program and the biomedical and veterinary sciences degree programs, and served as graduate advisor or committee member for nine master's and 11 doctoral students; and

WHEREAS, he was instrumental in revising the professional doctor of veterinary medicine curriculum at Virginia Tech; and

WHEREAS, he served as coordinator of the veterinary toxicology laboratory and was a consulting resource on veterinary toxicology for veterinarians, extension agents, diagnostic laboratory personnel, and the general public; and

WHEREAS, he made significant contributions to research and outreach in clinical veterinary toxicology and authored approximately 150 publications and presentations; and

WHEREAS, he was a diplomate in the American Board of Veterinary Toxicology and served on the American Board of Veterinary Toxicology as candidate coordinator and as a member of the Council of Regents; and

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Dennis Blodgett for his distinguished service to the university with the title of Associate Professor Emeritus of Biomedical Sciences and Pathobiology.

RECOMMENDATION:

That the above resolution recommending Dr. Dennis Blodgett for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1984 and continuing for 26 years, Dr. Stephen Boyle faithfully served Virginia Tech as a faculty member in the Department of Biomedical Sciences and Pathobiology in the Virginia-Maryland Regional College of Veterinary Medicine; and

WHEREAS, with dedication, he taught courses in infectious diseases and scientific integrity to veterinary and graduate students; and

WHEREAS, he advised and counseled numerous Multicultural Academic Opportunities Program (MAOP) undergraduate students and Post-Baccalaureate Research and Education Program (PREP) graduate students; and

WHEREAS, he advised and counseled graduate students in biomedical and veterinary medical sciences, served as graduate advisor for seven master's and six doctoral students, served as an advisory member of over 20 graduate student committees, and trained seven post-doctoral fellows; and

WHEREAS, he served as director of the Center for Molecular Medicine and Infectious Diseases; and

WHEREAS, he received the college's Beecher Award for Research Excellence; and

WHEREAS, he made significant contributions to research on vaccine development related to zoonotic diseases and gene regulation, authored over 100 publications, and received four U.S. patents in the course of this work; and

WHEREAS, he was a founding member of the Alliance for Contraception for Cats and Dogs and served on the board and as chair of its Scientific Advisory Committee; and

WHEREAS, he served as a member of national and international professional societies and represented the college on a variety of university committees;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Stephen Boyle for his distinguished service to the university with the title of Professor Emeritus of Biomedical Sciences and Pathobiology.

RECOMMENDATION:

That the above resolution recommending Dr. Stephen Boyle for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1980 and continuing for 30 years, Professor Thomas A. “Truman” Capone faithfully served Virginia Tech as a faculty member in the School of Visual Arts in the College of Architecture and Urban Studies; and

WHEREAS, he provided effective leadership as director of the School of Visual Arts, as head of the Department of Art and Art History, as program chair of the Visual Communication Design Program, as founder and senior creative director of the Visual Design Studio, and as director of the Collaborative for Creative Technologies in the Arts and Design; and

WHEREAS, he was instrumental in establishing the first graduate program in the School of Visual Arts—the Master of Fine Arts degree in creative technologies; and

WHEREAS, with dedication, he taught and advised countless art and design undergraduate students; and

WHEREAS, his creativity, outreach efforts, and teaching excellence were recognized by his peers with awards such as the Creative Achievement Award, the Excellence in Outreach Award, and Certificate of Teaching Excellence; and

WHEREAS, he established an internship program that integrated corporate alumni networking, which helped students in the design program achieve their career goals and gain employment through alumni professional and corporate affiliate contacts across the nation; and

WHEREAS, he was a member of the Southeastern College Art Association, American Advertisement Federation, College Art Association, American Institute of Graphic Arts, National Collage Society, International Society of Collage and Assemblage Artists, Phi Kappa Phi, and the American Advertising Federation; and

WHEREAS, he exhibited works in 2D and 3D montage, digital collage, painting, jewelry, and sculpture in over 75 national and international art shows and his works are held in permanent museum collections in France, Germany, Mexico, and New Zealand;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Professor Thomas A. “Truman” Capone for his distinguished service to the university with the title of Professor Emeritus of Visual Arts.

RECOMMENDATION:

That the above resolution recommending Professor Thomas A. “Truman” Capone for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1982 and continuing for 28 years, Dr. Bennet Cassell faithfully served Virginia Tech as a faculty member in the Department of Dairy Science in the College of Agriculture and Life Sciences; and

WHEREAS, he served the university and the Virginia dairy industry as an extension specialist in genetics; and

WHEREAS, he was a prolific author of popular press and extension publications, and authored or co-authored more than 60 research papers in the *Journal of Dairy Science*; and

WHEREAS, he was recognized by the scientific community for excellence in research with awards such as the American Dairy Science Association's J. L. Lush Award for outstanding contributions in dairy genetics and the National Association of Animal Breeders' Award for Research; and

WHEREAS, he served in numerous professional societies and was an outstanding department, college, and university citizen;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Bennet Cassell for his distinguished service to the university with the title of Professor Emeritus of Dairy Science.

RECOMMENDATION:

That the above resolution recommending Dr. Bennet Cassell for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1976 and continuing for 34 years, Dr. Jiann-Shin Chen faithfully served Virginia Tech as a faculty member in the Department of Biochemistry in the College of Agriculture and Life Sciences; and

WHEREAS, he conducted research that enhanced the production of organic alcohols—a valuable chemical feedstock and potential biofuel—from anaerobic microorganisms; and

WHEREAS, his research resulted in numerous research papers, reviews, books, and extramural grants; and

WHEREAS, he mentored graduate students through many challenges encountered during the successful attainment of their doctoral degrees; and

WHEREAS, he educated graduate students in the unique metabolic pathways found in anaerobic microorganisms; and

WHEREAS, with dedication, he taught undergraduate students in the classroom and laboratory; and

WHEREAS, he led the department's promotion and tenure committee with poise and professionalism; and

WHEREAS, he was instrumental in the establishment of an awards program honoring the late Professor John Johnson of the Virginia Tech Anaerobic Microbiology Laboratory;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Jiann-Shin Chen for his distinguished service to the university with the title of Professor Emeritus of Biochemistry.

RECOMMENDATION:

That the above resolution recommending Dr. Jiann-Shin Chen for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1972 and continuing for 38 years, Dr. William Cox faithfully served Virginia Tech as a faculty member in the Charles E. Via, Jr. Department of Civil and Environmental Engineering in the College of Engineering and in the Virginia Water Resources Center; and

WHEREAS, he made significant contributions to the field of water resources engineering through his work in planning water resource projects as well as policy and legal issues associated with water resources management; and

WHEREAS, with dedication, he taught and lectured in undergraduate and graduate courses; and

WHEREAS, he held leadership positions in numerous standing and task committees of the American Society of Civil Engineers (ASCE) Environmental and Water Resources Institute; and

WHEREAS, he served as an advisor to the Commonwealth of Virginia regarding water resource issues and was a member of the Water Policy Technical Advisory Committee established by the Department of Environmental Quality, the State Water Commission, and the Virginia Secretary of Natural Resources; and

WHEREAS, with dedication, he served as assistant department head for 14 years; and

WHEREAS, he provided many years of distinguished contributions to the department, college, and university through service on numerous committees, particularly in the area of engineering curriculum assessment; and

WHEREAS, he was inducted into the department's Academy of Distinguished Alumni;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. William Cox for his distinguished service to the university with the title Professor Emeritus of Civil and Environmental Engineering.

RECOMMENDATION:

That the above resolution recommending Dr. William Cox for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1979 and continuing for 31 years, Dr. Richard Fell faithfully served Virginia Tech as a faculty member in the Department of Entomology in the College of Agriculture and Life Sciences; and

WHEREAS, he was an undergraduate advisor, a dedicated mentor and advocate for graduate students, and a valued faculty colleague; and

WHEREAS, he advised numerous students on master's and doctoral dissertations and helped them develop successful careers in both academic and industrial settings; and

WHEREAS, with dedication, he taught a wide variety of undergraduate and graduate courses ranging across the full entomology curriculum, placing strong emphasis on standards and student learning; and

WHEREAS, he contributed significantly to the understanding of entomology through his work in apiculture by conducting training workshops for beekeepers that focused on management of pests and diseases affecting honey bees; and

WHEREAS, he supported the scientific research enterprise as a conference organizer and frequent reviewer for national and international journals and funding agencies; and

WHEREAS, he served as interim department head and provided many years of distinguished contributions to the department, college, and university through service on numerous committees;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Richard Fell for his distinguished service to the university with the title of Professor Emeritus of Entomology.

RECOMMENDATION:

That the above resolution recommending Dr. Richard Fell for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1985 and continuing for 25 years, Dr. O. Hayden Griffin, Jr. faithfully served Virginia Tech as a faculty member in the Department of Engineering Science and Mechanics and the Department of Engineering Education in the College of Engineering; and

WHEREAS, he provided effective leadership as head of the Department of Engineering Education, as director of the Division of Engineering Fundamentals, and as associate dean for academic affairs; and

WHEREAS, he led the transformation of the Division of Engineering Fundamentals to become a nationally recognized Department of Engineering Education by expanding and diversifying the faculty, by creating a positive departmental environment, and by establishing one of the nation's first doctoral programs in engineering education; and

WHEREAS, his strong commitment to excellence as an educator was recognized by his peers with numerous awards including the Certificate of Teaching Excellence, the Diggs Teaching Scholar Award, the Alumni Award for Teaching Excellence, and induction into the Academy of Teaching Excellence; and

WHEREAS, he led the conception, design, realization, and operation of the Joseph F. Ware, Jr. Advanced Engineering Laboratory, which is a signature laboratory within the College of Engineering and an inspiration for the engineering curricula's description as "hands-on, minds-on" education;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. O. Hayden Griffin, Jr. for his distinguished service to the university with the title of Professor Emeritus of Engineering Education.

RECOMMENDATION:

That the above resolution recommending Dr. O. Hayden Griffin, Jr. for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1974 and continuing for 36 years, Dr. Francis Gwazdauskas faithfully served Virginia Tech as a faculty member in the Department of Dairy Science in the College of Agriculture and Life Sciences; and

WHEREAS, he was an outstanding teacher who received the College of Agriculture and Life Sciences Certificate of Teaching Excellence Award; and

WHEREAS, he was an outstanding researcher and graduate advisor; and

WHEREAS, his excellence in research was repeatedly recognized by his peers with awards such as the Alumni Award for Excellence in Research, the American Dairy Science Association's Pharmacia and Upjohn Physiology Award, and most recently, his appointment as Fellow of the American Dairy Science Association; and

WHEREAS, he authored or co-authored more than 170 research papers in multiple scientific journals; and

WHEREAS, he was a friend, colleague, and mentor to faculty members throughout the college and university; and

WHEREAS, he served in numerous professional societies and was an outstanding department, college, and university citizen; and

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Francis Gwazdauskas for his distinguished service to the university with the title of David and Margaret Lincicome Professor Emeritus of Dairy Science.

RECOMMENDATION:

That the above resolution recommending Dr. Francis Gwazdauskas for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1978 and continuing for 30 years, Dr. Michael Hyer faithfully served Virginia Tech as a faculty member in the Department of Engineering Science and Mechanics in the College of Engineering; and

WHEREAS, with dedication, he taught a wide range of courses from freshman to advanced graduate level, was often cited by the College of Engineering for his excellent teaching evaluations, and received the department's Frank A. Maher Award for Excellence in Education; and

WHEREAS, he advised and counseled numerous undergraduate and graduate students in the engineering science and mechanics and engineering mechanics programs and served as graduate advisor for 24 doctoral students who went on to pursue successful careers in academe, government research laboratories, and private business; and

WHEREAS, he authored of over 300 publications, including journal papers, conference proceedings, and government and university reports, and gave 100 presentations in Asia, Europe, North America, and the former Soviet Union; and

WHEREAS, his research excellence was recognized by the American Society for Composites' Best Paper Award and Outstanding Research Award, the American Society for Testing Materials' Award of Appreciation, and Virginia Tech's Alumni Award for Research Excellence; and

WHEREAS, he was named a Fellow of the American Society for Composites, the American Institute of Aeronautics and Astronautics (AIAA), the American Society of Mechanical Engineering, and the American Academy of Mechanics; and

WHEREAS, he was former president of the American Society for Composites, vice president of Region 3—the Americas—of the International Committee on Composite Materials, past editor for the Society of Engineering Science, and a member of the Society of Engineering Science board of directors; and

WHEREAS, he organized the 16th Annual Technical Conference of the American Society for Composites, served as vice chair of the 14th International Conference on Composite Materials, as scientific co-chair for the 14th U.S. National Congress of Applied Mechanics, as technical chair for the 48th AIAA Structures, Structural Dynamics, and Materials Conference, as chair of the AIAA Structures Technical Committee, and will serve as co-chair of the 26th Annual Technical Conference of the American Society for Composites in 2011;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Michael Hyer for his distinguished service to the university with the title of N. Waldo Harrison Professor Emeritus of Engineering Science and Mechanics.

RECOMMENDATION:

That the above resolution recommending Dr. Michael Hyer for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITA STATUS

WHEREAS, beginning in 1987 and continuing for 23 years, Dr. Patricia Hyer faithfully served Virginia Tech as the associate provost for academic administration; and

WHEREAS, she was deeply engaged in all aspects of university governance, policy, and diversity efforts; and

WHEREAS, she was instrumental in helping to move the institution past a historical legacy that excluded women and minorities to become a revitalized, inclusive institution with wide-ranging policies and programs that support its commitment to diversity; and

WHEREAS, she was a key leader in establishing the Women's Center at Virginia Tech; and

WHEREAS, she was co-author and co-principal investigator of a \$3.5 million National Science Foundation Advance grant that promoted institutional transformation for women faculty in science and engineering at Virginia Tech; and

WHEREAS, she championed new and revised work-life policies, dual career hiring, daycare, department head training, and institutional data analysis; and

WHEREAS, her efforts resulted in an integrated set of policies and programs that address barriers to the recruitment, retention, and advancement of women faculty; and

WHEREAS, she served as state coordinator for the Virginia Network of Women in Higher Education—a statewide organization for women administrators in higher education, and she served on the state executive board of the Virginia Network, as well as on the national network executive board of the American Council on Education's Office of Women in Higher Education; and

WHEREAS, her leadership and commitment were recognized by her peers as the first recipient of the Virginia Tech Woman of the Year Award, as recipient of the Academy of Leadership Excellence Outstanding Leader of the Year Award, as Virginia Tech's Woman of the Decade, as recipient of the University Change Agent Award from the Women in Engineering Program Advocates Network, and with her selection as Fellow in the Association for Women in Science; and

WHEREAS, her trusted, wise, and insightful advice was valued by the provost and the university community at large; and

WHEREAS, she embraced and embodied the university's motto of service, *Ut Prosim*;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Patricia Hyer for her service to the university with the title of Associate Provost Emerita of Academic Administration.

RECOMMENDATION:

That the above resolution recommending Dr. Patricia Hyer for emerita status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1972 and continuing for 38 years, Professor Benjamin Johnson faithfully served Virginia Tech as a faculty member in the School of Architecture + Design in the College of Architecture and Urban Studies; and

WHEREAS, as the founding father of the landscape architecture program, he selflessly and wisely guided the program during times of change; and

WHEREAS, he worked tirelessly on behalf of the program after the near devastating fire in the Architecture Annex by securing new offices and shepherding the program through the complex administrative processes that followed; and

WHEREAS, he was a dedicated and beloved teacher and advisor for countless undergraduate and graduate students, and helped them achieve their career goals; and

WHEREAS, as the landscape architecture faculty leader for each Solar Decathlon, he worked diligently with colleagues and students to ensure collaborative work at the highest level; and

WHEREAS, his international competition entries were instrumental in establishing ties to the People's Republic of China, which provided opportunities for students to participate in high-level, collaborative, international work; and

WHEREAS, he contributed substantially to the success of the exchange program with Tongji University in Shanghai, China by personally mentoring many of the Tongji exchange students; and

WHEREAS, he worked determinedly to secure outside funding and grants from entities such as American Electric Power and the Mountain Lake Conservancy to provide students with significant educational and professional opportunities; and

WHEREAS, he contributed to the advancement of the landscape architecture profession and to the reputation of Virginia Tech's landscape architecture program by serving as president of the Virginia Chapter of the American Society of Landscape Architects;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Professor Benjamin Johnson for his distinguished service to the university with the title of Professor Emeritus of Landscape Architecture.

RECOMMENDATION:

That the above resolution recommending Professor Benjamin Johnson for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1984 and continuing for 26 years, Professor Dennis Jones faithfully served Virginia Tech as a faculty member in the School of Architecture + Design in the College of Architecture and Urban Studies; and

WHEREAS, he was a dedicated and beloved teacher and advisor for countless undergraduate and graduate students, and helped them achieve their career goals; and

WHEREAS, over the course of his career he made substantial contributions to the advancement and integration of computing in the curriculum of the architecture program; and

WHEREAS, he founded the National Organization of Minority Students chapter at Virginia Tech, provided effective mentorship to minority students, and served as chapter advisor; and

WHEREAS, he served as a design resource expert for the National Mayor's Institute on Design and as an advisory panel member of the National Endowment for the Arts' Design Arts Program; and

WHEREAS, he was a nationally and internationally renown speaker and was featured speaker for four years at the nation's largest conference on design technology—AEC DESCON Systems; and

WHEREAS, he received several honors for his papers, including best paper at the International Conference on Systems Research and Cybernetics in Baden-Baden, Germany; and

WHEREAS, he made significant contributions to computer applications research and development, and was one of 12 worldwide finalists in the Mobile Rules competition sponsored by the Nokia Corporation;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Professor Dennis Jones for his distinguished service to the university with the title of Associate Professor Emeritus of Architecture.

RECOMMENDATION:

That the above resolution recommending Professor Dennis Jones for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1980 and continuing for 30 years, Dr. Bernard Jortner faithfully served Virginia Tech as a faculty member in the Department of Biomedical Sciences and Pathobiology in the Virginia-Maryland Regional College of Veterinary Medicine; and

WHEREAS, with dedication, he taught a wide range of courses from undergraduate to veterinary medical professional to advanced graduate level; and

WHEREAS, he provided effective leadership to the veterinary education program and other biomedical education programs; and

WHEREAS, he participated in university governance activities as the founding president of the College of Veterinary Medicine faculty association, and as a member of the Faculty Senate, University Council, and Strategic Budgeting and Planning Committee; and

WHEREAS, he contributed to the research in neuropathology, neurotoxicology, and veterinary pathology; and

WHEREAS, he authored over 100 publications, directed numerous sponsored research and development projects, and served on the Study Section of the National Institutes of Health; and

WHEREAS, he was active in a number of professional organizations; served on the editorial board of the *Journal of Veterinary Pathology*, and was a member of the American College of Veterinary Pathologists, American Association of Neuropathologists, American Society for Investigative Pathology, Society of Toxicologic Pathology, International Academy of Pathology, International Brain Research Organization, Society for Neuroscience, Society of Toxicology, and the Peripheral Nerve Society; and

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Bernard Jortner for his distinguished service to the university with the title of Professor Emeritus of Biomedical Sciences and Pathobiology.

RECOMMENDATION:

That the above resolution recommending Dr. Bernard Jortner for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1979 and continuing for 31 years, Professor Donald Kenney faithfully served Virginia Tech as a faculty member in the University Libraries and since 1995 as associate dean of the University Libraries; and

WHEREAS, he made significant contributions to the delivery of excellent services for library users through his work in the areas of instruction, collection management, reference, circulation, finance, facility management, and human resources; and

WHEREAS, he served as an advisor for many undergraduate students working on class projects that involved studies of library services; and

WHEREAS, he supported the library, the university, and the library profession through extensive service on important user-focused units of the American Library Association such as Reference and User Services, Bibliographic Instruction, and Young Adult Library Services; and

WHEREAS, he demonstrated an excellent record of scholarship with more than 50 publications and conference presentations; and

WHEREAS, he further contributed to scholarly work by co-editing the *Journal of Youth Services in Libraries* and serving as column editor for *The Assembly on Literature for Adolescents (ALAN) Review* of the National Council of Teachers of English; and

WHEREAS, no matter what project he was involved with he always asked, "How can this be done in ways that more efficiently and effectively serve library users?";

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Professor Donald Kenney for his distinguished service to the university with the title of Associate Dean Emeritus of University Libraries.

RECOMMENDATION:

That the above resolution recommending Professor Donald Kenney for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1981 and continuing for 29 years, Dr. John Lee faithfully served Virginia Tech as a faculty member in the Department of Biomedical Sciences and Pathobiology in the Virginia-Maryland Regional College of Veterinary Medicine; and

WHEREAS, with dedication, he taught a wide range of courses from veterinary medical professional to advanced graduate levels, and served as the major professor for five master's students, two Ph.D. students, and four M.D. students, and as a committee member for seven master's students and 14 doctoral students; and

WHEREAS, he established the College of Veterinary Medicine's graduate/resident program; developed an innovative graduate training curriculum; initiated the doctor of veterinary medicine (DVM) student summer fellowship training program; incorporated the clinical correlation to DVM physiology course; and eliminated the use of animals in all physiology labs; and

WHEREAS, he provided valuable leadership in various administrative positions, including as interim associate dean for research and graduate studies, associate department head of biomedical sciences and pathobiology, head of the graduate program of veterinary medical sciences, director of Southgate research laboratories, and chairman of the veterinary medical experimental station board; and

WHEREAS, he contributed to research in the neural and hormonal control of cardiovascular and respiratory functions, with research funding support in excess of \$3.5 million from sources such as the National Institutes of Health, the American Heart Association, and the U.S. Department of Agriculture; and

WHEREAS, he authored over 85 refereed journal publications and 80 refereed abstracts or conference papers, and was elected or appointed to over 57 commissions, committees, and advisory groups, including many local and state organizations; and

WHEREAS, he received many honors and awards for teaching, research, and outreach excellence, including the college's Teaching Excellence Award, the college's Best Teacher of the Year Award, the Beechem Research Excellence Award, a Certificate of Teaching Excellence, induction into the Virginia Tech Academy of Teaching Excellence, the college's Research Technicians and Staff Association Certificate of Appreciation, the Southern States Association Agricultural Experiment Station Directors' Certificate of Service Award, the Montgomery County American Heart Association's Distinguished Service Award, the Virginia Affiliate of the American Heart Association's Distinguished Service Award, and the Friend of the Virginia Veterinary Medical Association Award;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. John Lee for his distinguished service to the university with the title of Professor Emeritus of Biomedical Sciences and Pathobiology.

RECOMMENDATION:

That the above resolution recommending Dr. John Lee for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITA STATUS

WHEREAS, beginning in 1988 and continuing for 22 years, Ms. K. Lonnette Marsh faithfully served Virginia Tech as a faculty member in Virginia Cooperative Extension; and

WHEREAS, she served the extension program with distinction in the areas of 4-H Youth Development and Family and Consumer Sciences; and

WHEREAS, with dedication, she served as the Virginia Cooperative Extension Central District Director and provided administrative leadership for 19 unit offices, which included direct supervision of 49 district and field extension faculty and staff members, fiscal administration, leadership for local and state government relations and support, and district program and volunteer development; and

WHEREAS, she served as a member of the State Family Consumer Science Extension Council, the State 4-H Leadership Council, the W. E. Skelton 4-H Educational Center at Smith Mountain Lake board of directors, the Holiday Lake 4-H Educational Center board of directors, and the Jamestown 2007 America's 400th Anniversary Committee; and

WHEREAS, she received the Distinguished Service Award from the National Association of Extension 4-H Agents, the Outstanding Home Economics Team Award, and the Virginia Chapter of 4-H All Stars Award;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Ms. K. Lonnette Marsh for her distinguished service to the university with the title of District Director Emerita of Virginia Cooperative Extension.

RECOMMENDATION:

That the above resolution recommending Ms. K. Lonnette Marsh for emerita status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1975 and continuing for 35 years, Dr. Alan McDaniel faithfully served Virginia Tech as a faculty member in the Department of Horticulture in the College of Agriculture and Life Sciences; and

WHEREAS, he taught many undergraduate classes with distinction and made significant contributions to the education of undergraduate students; and

WHEREAS, he ably served the department, college, and university through leadership of the curriculum committee and the undergraduate honor system, and numerous other committees; and

WHEREAS, with dedication, he served for many years as the coordinating counselor in the Department of Horticulture and excelled as academic advisor to countless horticulture students; and

WHEREAS, he faithfully served the youth of Virginia through Future Farmers of America (FFA) and Governor's School programs;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Alan McDaniel for his distinguished service to the university with the title of Associate Professor Emeritus of Horticulture.

RECOMMENDATION:

That the above resolution recommending Dr. Alan McDaniel for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1974 and continuing for 36 years, Dr. Michael McGilliard faithfully served Virginia Tech as a faculty member in the Department of Dairy Science in the College of Agriculture and Life Sciences; and

WHEREAS, with great skill he taught in multiple topic areas including dairy management, professional development, and statistical analysis; and

WHEREAS, he advised and assisted numerous graduate students in multiple departments with experimental design, data evaluation, and analysis; and

WHEREAS, he authored or co-authored numerous research journal articles; and

WHEREAS, he served as a Dairy Club advisor; and

WHEREAS, was a diligent, dedicated, and concerned departmental citizen; and

WHEREAS, he was a friend, colleague, and mentor to faculty members throughout the college and university;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Michael McGilliard for his distinguished service to the university with the title of Professor Emeritus of Dairy Science.

RECOMMENDATION:

That the above resolution recommending Dr. Michael McGilliard for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1979 and continuing for 31 years, Dr. James McKenna faithfully served Virginia Tech, first as an extension agent, and subsequently as a faculty member in the Department of Crop and Soil Environmental Sciences in the College of Agriculture and Life Sciences; and

WHEREAS, he made significant research contributions to the areas of sustainable agriculture, forage management, and agroforestry; and

WHEREAS, he contributed to international research and outreach programs in Brazil, China, Haiti, and Mali, and organized and led cooperative exchange international undergraduate education programs in Brazil, China, Kenya, and South Africa; and

WHEREAS, with dedication, he taught a wide variety of undergraduate courses, always placing strong emphasis on standards and student learning; and

WHEREAS, he served on numerous student advisory committees for master's theses and doctoral dissertations and helped students develop successful careers in the academic, public sector, and private industry settings; and

WHEREAS, he received numerous teaching awards, including the university's William E. Wine Award and Edward S. Diggs Teaching Scholar Award, as well as the North American Colleges and Teachers of Agriculture Association's Distinguished Education Award; and

WHEREAS, he provided many years of distinguished contributions to the department, college, and university through dedicated service on various committees; and

WHEREAS, he served as interim department head for the Department of Crop and Soil Environmental Sciences;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. James McKenna for his distinguished service to the university with the title of Professor Emeritus of Crop and Soil Environmental Sciences.

RECOMMENDATION:

That the above resolution recommending Dr. James McKenna for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1980 and continuing for 30 years, Dr. J. Blair Meldrum faithfully served Virginia Tech as a faculty member in the Department of Biomedical Sciences and Pathobiology in the Virginia-Maryland Regional College of Veterinary Medicine; and

WHEREAS, with dedication, he taught a wide range of courses in the professional veterinary medical curriculum, and presided over two complete curriculum changes; and

WHEREAS, he received teaching awards, including the prestigious Carl Norden-Pfizer Distinguished Teacher Award, which is recognized nationally as the highest teaching award given to veterinary college faculty; and

WHEREAS, he advised and counseled numerous veterinary students in the professional veterinary medical program and graduate students in the biomedical and veterinary sciences program, and actively recruited students into the combined doctor of veterinary medicine/Ph.D. program; and

WHEREAS, he served as the associate dean for academic affairs, and was founder and faculty coordinator of the toxicology diagnostic research laboratories; and

WHEREAS, he made significant contributions in scholarship regarding heavy metal poisonings and treatment and in veterinary medical curriculum studies, authoring a number of publications in these areas; and

WHEREAS, he served in national professional societies such as the Association of American Veterinary Medical Colleges, the Academic Affairs Executive Committee, the Pew National Veterinary Education Program Group, and the North American Strategic Veterinary Education Task Force;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. J. Blair Meldrum for his distinguished service to the university with the title of Professor Emeritus of Biomedical Sciences and Pathobiology.

RECOMMENDATION:

That the above resolution recommending Dr. J. Blair Meldrum for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1973 and continuing for 37 years, Dr. Donald Mullins faithfully served Virginia Tech as a faculty member in the Department of Entomology in the College of Agriculture and Life Sciences; and

WHEREAS, he was a dedicated graduate student coordinator, mentor, and advocate, as well as a valued faculty colleague; and

WHEREAS, he advised numerous students on master's and doctoral dissertations and helped them develop successful careers in both the academic and industrial settings; and

WHEREAS, he made significant contributions to the understanding of entomology through his work in insect physiology and biochemistry, in formulation of insecticidal baits and biopesticides, and by researching and addressing integrated pest management/quality assurance issues in developing countries; and

WHEREAS, he supported the scientific research enterprise as a conference organizer and frequent reviewer for national and international journals and funding agencies; and

WHEREAS, with dedication, he taught a wide variety of undergraduate and graduate courses across the full entomology curriculum, placing strong emphasis on high standards and student learning; and

WHEREAS, he provided many years of distinguished contributions to the department, college, and university through dedicated service on numerous committees, as well as serving as interim department head;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Donald Mullins for his distinguished service to the university with the title of Professor Emeritus of Entomology.

RECOMMENDATION:

That the above resolution recommending Dr. Donald Mullins for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1990 and continuing for 20 years, Dr. William Newton faithfully served Virginia Tech as a faculty member in the Department of Biochemistry in the College of Agriculture and Life Sciences; and

WHEREAS, he was instrumental in dissecting the complex molecular mechanisms of nitrogenase—an enzyme whose unique ability to fix atmospheric nitrogen renders it essential for all life; and

WHEREAS, he published numerous refereed research papers, scholarly reviews, and a comprehensive multivolume encyclopedia on nitrogenase and the planetary nitrogen cycle; and

WHEREAS, he initiated and organized an extensive series of international conferences on nitrogen fixation; and

WHEREAS, he was founding director of the Fralin Center for Biotechnology, which developed into one of Virginia Tech's signature centers for molecular research; and

WHEREAS, he served as head of the department during a period of enormous budgetary and organizational challenge; and

WHEREAS, as instructor of BCHM 5124, "Biochemistry for the Life Sciences," he displayed sensitivity and patience while introducing hundreds of Virginia Tech graduate students from the biological and agricultural sciences to the complexities of biochemistry;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. William Newton for his distinguished service to the university with the title of Professor Emeritus of Biochemistry.

RECOMMENDATION:

That the above resolution recommending Dr. William Newton for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1977 and continuing for 33 years, Dr. David Notter faithfully served Virginia Tech as a faculty member in the Department of Animal and Poultry Sciences in the College of Agriculture and Life Sciences; and

WHEREAS, he advised and counseled graduate students as chair of the Animal and Poultry Sciences Graduate Education Committee; and

WHEREAS, he served as major advisor to 31 doctoral and master's students and was a member of numerous master's and doctoral committees; and

WHEREAS, with dedication, he taught a wide range of courses from introductory undergraduate to advanced graduate levels; and

WHEREAS, he made significant contributions to research on quantitative genetics and breeding of farm animals, authored over 140 articles in refereed journals, and directed numerous sponsored research and development projects; and

WHEREAS, he was recognized as an authority on the global management of farm animal genetic resources by his many collaborations with the United Nations' Food and Agriculture Organization and other international agricultural bodies; and

WHEREAS, he served the U.S. livestock industries as director of the National Sheep Improvement Program Genetic Evaluation Center, by participation in the Beef Improvement Federation, and as a speaker at numerous industry programs;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. David Notter for his distinguished service to the university with the title of Professor Emeritus of Animal and Poultry Sciences.

RECOMMENDATION:

That the above resolution recommending Dr. David Notter for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1975 and continuing for 35 years, Dr. Patrick O'Reilly faithfully served Virginia Tech, first as a research associate, and subsequently as a faculty member in the School of Education in the College of Liberal Arts and Human Sciences; and

WHEREAS, with dedication, he taught a wide range of courses from undergraduate to advanced graduate levels, in locations across the Commonwealth of Virginia as well as on the Blacksburg campus; and

WHEREAS, he advised and counseled countless baccalaureate and master's degree students, served on numerous doctoral committees, and served as major advisor to many Ph.D. and Ed.D. students; and

WHEREAS, he made significant contributions to the research on career and technical education, trade and industrial teacher education, and educational evaluations; and

WHEREAS, he authored over 80 publications and directed numerous sponsored research and development projects; and

WHEREAS, he served as director of the Center for Assessment, Evaluation, and Educational Programming; and

WHEREAS, he held leadership positions in a number of professional societies, including the National Association of Industrial and Technical Teacher Educators and as editor of the *Journal of Industrial Teacher Education*;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Patrick O'Reilly for his distinguished service to the university with the title of Associate Professor Emeritus of Teaching and Learning.

RECOMMENDATION:

That the above resolution recommending Dr. Patrick O'Reilly for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1971 and continuing for 39 years, Dr. David Parks faithfully served Virginia Tech as a faculty member in the School of Education in the College of Liberal Arts and Human Sciences; and

WHEREAS, he served with distinction as professor of educational leadership, as program area leader for the educational leadership program, and as associate director of the School of Education; and

WHEREAS, he authored or co-authored numerous journal articles and book chapters; served as a reviewer and editorial board member for educational leadership journals; and presented scores of papers at state, regional, and national conferences and meetings; and

WHEREAS, he provided consultation and field service to school districts, state departments of education, universities, foundations, and professional organizations; and

WHEREAS, he was known and respected for his commitment to the development of the management and leadership skills of aspiring and practicing school administrators; developed the preparation program for school principals and supervisors; and authored and published a handbook for principal interns and mentors; and

WHEREAS, he taught thousands master's and doctoral students who now hold leadership positions in PK-12 school systems, professorships in universities, and positions in departments of education throughout the United States; and

WHEREAS, he successfully directed the doctoral studies of 137 students, several of whom won national awards for excellence in research; and

WHEREAS, he worked with the Danforth Foundation, the National Alliance for Educational Administration, the National Policy Board for Educational Administration, and the Educational Leadership Constituent Council in the development and application of standards for school leaders; and

WHEREAS, he brought recognition and honor to the educational leadership program, to the Department of Educational Leadership and Policy Studies, to the colleges in which he served, and to the university;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. David Parks for his distinguished service to the university with the title of Professor Emeritus of Educational Leadership and Policy Studies.

RECOMMENDATION:

That the above resolution recommending Dr. David Parks for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1977 and continuing for 33 years, Dr. David Parrish faithfully served Virginia Tech as a faculty member in the Department of Crop and Soil Environmental Sciences in the College of Agriculture and Life Sciences; and

WHEREAS, he made significant contributions to scholarship in the areas of crop physiology, bioenergy cropping systems, and roadside vegetation management; and

WHEREAS, he authored over 50 refereed journal articles and numerous applied publications; and

WHEREAS, with dedication, he taught a wide variety of undergraduate and graduate courses, always placing strong emphasis on standards and student learning; and

WHEREAS, he was instrumental in establishing the highly successful environmental science curriculum and served as its coordinating counselor; and

WHEREAS, he served as major professor for nine master's theses and doctoral dissertations, and as a member of numerous student advisory committees; and

WHEREAS, he helped students develop successful careers in the academic, public sector, and private industry settings; and

WHEREAS, he received several awards for his advising and teaching excellence, including the Alumni Award for Excellence in Academic Advising, the Award for Excellence in Career Advising, and the Certificate of Teaching Excellence; and

WHEREAS, he provided many years of distinguished contributions to the department, college, and university through dedicated service on various committees;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. David Parrish for his distinguished service to the university with the title of Professor Emeritus of Crop and Soil Environmental Sciences.

RECOMMENDATION:

That the above resolution recommending Dr. David Parrish for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1971 and continuing for 39 years, Dr. Charles Parry faithfully served Virginia Tech as a faculty member in the Department of Mathematics in the College of Science; and

WHEREAS, he established a research program in number theory and published 37 papers; and

WHEREAS, he delivered invited lectures in Canada, England, Germany, Italy, and the U.S.; and

WHEREAS, he taught courses at all levels of the curriculum, won awards for his teaching excellence, and supervised eight doctoral dissertations; and

WHEREAS, he participated in the design of mathematics courses for computer science majors; and

WHEREAS, he served on numerous departmental committees, as associate department head, as a member of the College Executive Committee, as a member of the Faculty Senate, and as a member of the Commission on Graduate Studies and Research; and

WHEREAS, he served the profession as a proposal reviewer for the National Science Foundation and the Canadian Research Council;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Charles Parry for his distinguished service to the university with the title of Professor Emeritus of Mathematics.

RECOMMENDATION:

That the above resolution recommending Dr. Charles Parry for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1978 and continuing for 32 years, Dr. Patrick Phipps faithfully served Virginia Tech as a faculty member in the Department of Plant Pathology, Physiology, and Weed Science stationed at the Tidewater Agricultural Research and Extension Center in Suffolk, Virginia; and

WHEREAS, he maintained an outstanding record of sustained, high quality research and of bringing his research to growers and stakeholders through extension; and

WHEREAS, he authored or co-authored over 500 publications, which included refereed journal articles, reviewed research reports, extension bulletins, and articles in trade journals and farm magazines; and

WHEREAS, his research and extension activities resulted in the reduction of fungicide and nematicide use by hundreds of tons and saved Virginia farmers millions of dollars; and

WHEREAS, he was principal or co-principal investigator on grants that researched plant diseases in the Commonwealth of Virginia, the nation, and the world; and

WHEREAS, he advised numerous students through master's committees and doctoral dissertations and helped them develop successful careers as plant pathologists; and

WHEREAS, he supported the scientific research enterprise as an editor for six journals and as a frequent reviewer for additional journals and funding agencies; and

WHEREAS, his excellence was consistently honored by statewide organizations, commodity groups, colleagues, and professional organizations, including the Virginia Tech Alumni Excellence in Extension Award, the Virginia Agribusiness Council's Extension Award, and election as Fellow of the American Phytopathological Society; and

WHEREAS, he provided many years of distinguished contributions to professional societies and to the department, college, and university through leadership and dedicated service on various committees;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Patrick Phipps for his distinguished service to the university with the title of Professor Emeritus of Plant Pathology, Physiology, and Weed Science.

RECOMMENDATION:

That the above resolution recommending Dr. Patrick Phipps for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1972 and continuing for 38 years, Dr. Marion Reynolds, Jr. faithfully served Virginia Tech as a faculty member in the departments of Statistics and Forest Resources and Environmental Conservation in the colleges of Science and Natural Resources and Environment; and

WHEREAS, he made significant contributions to the understanding of statistics through his work in industrial statistics, especially the development of methods for quality and process control; and

WHEREAS, he directed the research of two master's and 23 doctoral students in statistics and served on over 200 master's and doctoral committees in statistics and forest resources and environmental conservation; and

WHEREAS, he was principal or co-principal investigator on grants researching the application of statistics to forestry problems; and

WHEREAS, he authored or co-authored over 100 refereed journal articles, book chapters, and reviews, and served as a referee to over 31 scientific journals; and

WHEREAS, he held leadership positions in professional organizations; and

WHEREAS, he received many professional honors and awards, including twice receiving the Brumbaugh Award from the American Society for Quality, the Best Paper Award from *IIE Transactions*, and the university's Certificate of Teaching Excellence; and

WHEREAS, with dedication, he taught a wide variety of undergraduate and graduate courses ranging across the statistics curriculum, placing strong emphasis on high standards and student learning; and

WHEREAS, he provided many years of distinguished contributions to the department, the college, and the university through dedicated service on numerous committees;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Marion Reynolds, Jr. for his distinguished service to the university with the title of Professor Emeritus of Statistics and Forest Resources and Environmental Conservation.

RECOMMENDATION:

That the above resolution recommending Dr. Marion Reynolds, Jr. for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1972 and continuing for 38 years, Dr. Richard Salmon faithfully served Virginia Tech as a faculty member in the School of Education in the College of Liberal Arts and Human Sciences; and

WHEREAS, he served with distinction as coordinator of student teaching, as program area leader for the educational leadership program, and as professor of educational leadership; and

WHEREAS, his research and publications in the field of school finance had, and continue to have, profound impact on public PK-12 school funding in the United States; and

WHEREAS, he was widely recognized as an eminent scholar and expert in fiscal equity, adequacy, and capacity, and often served as a consultant and witness in federal and state litigation over school funding reform; and

WHEREAS, he taught thousands of master's and doctoral students who now hold leadership positions in PK-12 school systems, professorships in universities, and positions in departments and ministries of education in Virginia, the United States, and other nations; and

WHEREAS, he successfully directed the doctoral studies of scores of students and served as a member of hundreds of students' doctoral advisory committees; and

WHEREAS, he brought recognition and honor to the educational leadership program, to the Department of Educational Leadership and Policy Studies, to the colleges in which he served, and to the university;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Richard Salmon for his distinguished service to the university with the title of Professor Emeritus of Educational Leadership and Policy Studies.

RECOMMENDATION:

That the above resolution recommending Dr. Richard Salmon for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1980 and continuing for 30 years, Dr. Mark Sanders faithfully served Virginia Tech as a faculty member in the School of Education in the College of Liberal Arts and Human Sciences; and

WHEREAS, as a pioneer in integrative science, technology, engineering, and mathematics education, he made significant contributions in the field of technology education through his work in graphic communications, integration of technology with science and mathematics education, and preparation of education and engineering professionals; and

WHEREAS, as a researcher and nationally recognized leader, he led the transition of teacher education professionals through their evolution from industrial arts education to technology education and now to integrative science, technology, engineering and mathematics education; and

WHEREAS, he received 18 national and state awards for his research, exemplary teaching, and tireless service to his profession, and was recognized as being a lead historian in the field of technology education; and

WHEREAS, he sustained a research focus on the integration of technology, science, and mathematics education, including teaching and curriculum development supported by longstanding, funded grants from the National Science Foundation and the Technical Foundation of America; and

WHEREAS, through his dedication and commitment to quality instruction and advising, he touched the lives of undergraduate and graduate students in technology education and integrative science, technology, engineering, and mathematics (STEM) education; and

WHEREAS, he impacted the lives of countless technology education professionals through his prolific publications—particularly as the most published chapter author in the highly respected yearbook series of the Council on Technology Teacher Education—thus setting standards for the evolution of the profession;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Mark Sanders for his distinguished service to the university with the title of Professor Emeritus of Teaching and Learning.

RECOMMENDATION:

That the above resolution recommending Dr. Mark Sanders for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1974 and continuing for 36 years, Dr. Paul Semtner faithfully served Virginia Tech as a faculty member in the Department of Entomology in the College of Agriculture and Life Sciences; and

WHEREAS, he was a dedicated mentor to and advocate for graduate students, as well as a valued faculty colleague; and

WHEREAS, he advised numerous students on master's theses and doctoral dissertations and helped them develop successful careers in both the academic and industrial settings; and

WHEREAS, he made significant contributions to the understanding of entomology through his research on tobacco integrated pest management; and

WHEREAS, he supported the scientific research enterprise as a conference organizer and frequent reviewer for national and international journals and funding agencies; and

WHEREAS, with dedication, he trained growers by hosting production meetings, field days, farm tours, and farm test demonstrations; and

WHEREAS, with enthusiasm and expertise, he trained extension agents regarding current recommendations and emerging problems in tobacco insect pest management; and

WHEREAS, he provided many years of distinguished contributions to the department, college, and university through dedicated service on various committees;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Paul Semtner for his distinguished service to the university with the title of Professor Emeritus of Entomology.

RECOMMENDATION:

That the above resolution recommending Dr. Paul Semtner for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1971 and continuing for 39 years, Dr. Thomas Sherman faithfully served Virginia Tech as a faculty member in the School of Education in the College of Liberal Arts and Human Sciences; and

WHEREAS, as a member of the educational psychology program, he served Virginia Tech as an outstanding teacher, advisor, colleague, and department chair; and

WHEREAS, he made significant contributions in the design and development of learning environments, which ranged from practice-based research on learning to the articulation and promotion of study strategies for student success, full-scale instructional programs, and sound assessment models and strategies; and

WHEREAS, he made over 120 presentations and authored 100 publications, four books, and numerous grants; and

WHEREAS, he provided strong and effective leadership in university governance through his role as president of the Virginia Tech Faculty Senate and as president of the Faculty Senate of Virginia; and

WHEREAS, he worked with university administrators in navigating difficult times and strengthened faculty ties to the State Council of Higher Education for Virginia, the General Assembly, and the Virginia Business Higher Education Council; and

WHEREAS, he consistently exceeded expectations in mentoring faculty and students; and

WHEREAS, he consistently and tirelessly worked with faculty and administrators employing patience, good humor, and respect for others;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Thomas Sherman for his distinguished service to the university with the title of Professor Emeritus of Teaching and Learning.

RECOMMENDATION:

That the above resolution recommending Dr. Thomas Sherman for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1982 and continuing for 28 years, Dr. Thomas Sitz faithfully served Virginia Tech as a faculty member in the Department of Biochemistry in the College of Agriculture and Life Sciences; and

WHEREAS, he taught biochemistry in a rigorous manner that stressed fundamental principles and foundational skills;

WHEREAS, as chief undergraduate recruiter, he was instrumental in advancing the quantity and quality of students pursuing a B.S. degree in biochemistry at Virginia Tech; and

WHEREAS, as lead departmental advisor, he provided insightful and honest assistance and advice to innumerable students faced with challenging academic situations; and

WHEREAS, he mentored many biochemistry faculty in the art of student advising; and

WHEREAS, he served the university and its students as a pre-medical and pre-dental advisor and, more recently, as director of the pre-medical and pre-dental advising program; and

WHEREAS, he was a leader in the Virginia Junior Academy of Sciences and an active sponsor of undergraduate research students; and

WHEREAS, he consistently volunteered to serve the department and its students at graduation, orientation, family day, homecoming, student clubs, and related activities;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Thomas Sitz for his distinguished service to the university with the title of Associate Professor Emeritus of Biochemistry.

RECOMMENDATION:

That the above resolution recommending Dr. Thomas Sitz for emeritus status be approved.

August 30, 2010

RESOLUTION FOR POSTHUMOUS EMERITUS STATUS

WHEREAS, beginning in 1982 and continuing for 28 years, Dr. John Daniel Stahl faithfully served Virginia Tech as a faculty member in the Department of English in the College of Liberal Arts and Human Sciences; and

WHEREAS, he made significant contributions to the understanding of children's literature and American literature, especially in their cross-cultural contexts, through research and publication that included the co-edited anthology, *Crosscurrents of Children's Literature: An Anthology of Texts and Criticism* (Oxford 2006) and *Mark Twain, Culture and Gender: Envisioning America through Europe* (Georgia 1994) as well as numerous articles, book chapters, and translations; and

WHEREAS, he transformed the children's literature program at Virginia Tech from a single undergraduate survey course to a highly respected set of undergraduate and graduate courses and prepared a cohort of faculty, in part, through the study group on children's literature he organized and led over a period of years; and

WHEREAS, he was a dedicated, exemplary, and beloved teacher whose excellence was recognized by the William E. Wine Award, the Alumni Teaching Award, and induction into the Virginia Tech Academy of Teaching Excellence, in addition to other recognitions and numerous testimonials from current and former students; and

WHEREAS, he advised numerous students and helped them develop successful academic and nonacademic careers; and

WHEREAS, he shared his knowledge and enhanced the reputation of Virginia Tech in children's literature by serving as president of the Children's Literature Association, participating in its annual conferences, and organizing and hosting conferences in Roanoke; and

WHEREAS, he provided many years of distinguished contributions to the department, college, and university through dedicated service on numerous committees;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors posthumously recognizes Dr. John Daniel Stahl for his distinguished service to the university with the title of Professor Emeritus of English.

RECOMMENDATION:

That the above resolution recommending Dr. John Daniel Stahl for posthumous emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1981 and continuing for 29 years, Dr. Erik Stromberg faithfully served Virginia Tech as a faculty member in the Department of Plant Pathology, Physiology, and Weed Science in the College of Agriculture and Life Sciences; and

WHEREAS, he was an effective and dedicated researcher, mentor, and commonwealth-wide extension plant pathologist for agronomic crops; and

WHEREAS, he advised and directed master's and doctoral students, and served on many graduate student committees in his department and other departments in the college; and

WHEREAS, he was internationally recognized as an authority on gray leaf spot of corn caused by *Cercospora zeae-maydis* and identified sources of resistance to this disease; and

WHEREAS, he was instrumental to the establishment of detection protocols for Asian soybean rust in the United States; and

WHEREAS, he developed fungicide treatment thresholds for the control of diseases to support the intensive cereal management program for Virginia; and

WHEREAS, he provided leadership in the department and college by serving as interim department head for two years and served on numerous committees, including the promotion and tenure committee at both the departmental and college levels; and

WHEREAS, he served in leadership positions in a number of professional organizations including as treasurer of the American Phytopathological Society, and as councilor, president, and vice president of the Potomac Division of the American Phytopathological Society;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Erik Stromberg for his distinguished service to the university with the title of Professor Emeritus of Plant Pathology, Physiology, and Weed Science.

RECOMMENDATION:

That the above resolution recommending Dr. Erik Stromberg for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1973 and continuing for 37 years, Dr. David Vaughan faithfully served Virginia Tech as a faculty member in the Department of Biological Systems Engineering in the College of Agriculture and Life Sciences; and

WHEREAS, he made significant contributions through his dedication to excellent teaching and advising that inspired student learning and professional and personal development; and

WHEREAS, he received the Sporn Award for Excellence in Engineering Education, two College of Engineering Certificates of Teaching Excellence, and the Gamma Sigma Delta Teaching Award of Merit; and

WHEREAS, he obtained funding for and directed a National Science Foundation Research Experience for Undergraduates for 11 summers with 110 student participants that resulted in the majority of participants pursuing graduate degrees; and

WHEREAS, he was instrumental in developing the proposal for the departmental Ph.D. program and coordinated the departmental graduate program during the decade when graduate student numbers quadrupled; and

WHEREAS, he served as the graduate advisor for 20 master's and 10 doctoral students and on the advisory committees of over 50 other graduate students from several departments; and

WHEREAS, he made significant contributions in research on energy use in agriculture and on sustainable agriculture and authored over 235 publications; and

WHEREAS, he provided many years of distinguished contributions to the department, college, and university through dedicated service on numerous committees; and

WHEREAS, he served the American Society of Agricultural and Biological Engineers (ASABE) in numerous capacities, chaired ASABE technical, conference planning, and awards committees, and received the ASABE Massey-Ferguson Educational Award;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. David Vaughan for his distinguished service to the university with the title of Professor Emeritus of Biological Systems Engineering.

RECOMMENDATION:

That the above resolution recommending Dr. David Vaughan for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1982 and continuing for 28 years, Dr. Mark Wahlberg faithfully served Virginia Tech as a faculty member in the Department of Animal and Poultry Sciences in the College of Agriculture and Life Sciences; and

WHEREAS, with dedication, he taught a wide range of courses offered at the undergraduate level; and

WHEREAS, he advised and counseled undergraduate and graduate students, served on many graduate committees, and helped students succeed in their academic pursuits and achieve their career goals; and

WHEREAS, he provided effective leadership to the youth extension program in animal science, which advanced the learning opportunities for youth throughout the commonwealth and brought national attention and recognition through success in a number of competitions; and

WHEREAS, he expanded the body of knowledge regarding the livestock industry through numerous publications and presentations focusing on cost-effective nutrition and management considerations; and

WHEREAS, he served in leadership and advisory positions in agricultural industry and community organizations, particularly the State Fair of Virginia;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Mark Wahlberg for his distinguished service to the university with the title of Associate Professor Emeritus of Animal and Poultry Sciences.

RECOMMENDATION:

That the above resolution recommending Dr. Mark Wahlberg for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1969 and continuing for 41 years, Dr. Kenneth Webb, Jr. faithfully served Virginia Tech as a faculty member in the Department of Animal and Poultry Sciences in the College of Agriculture and Life Sciences; and

WHEREAS, with dedication, he taught a wide range of courses from undergraduate to advanced graduate levels; and

WHEREAS, he advised and counseled numerous undergraduate and graduate students in the animal and poultry sciences degree program; and

WHEREAS, he served as the graduate advisor for 155 master's and doctoral students in nine departments, and as advisor for 20 master's and 16 doctoral students in his laboratory; and

WHEREAS, his research excellence was acknowledged by his profession with Virginia Tech's Gamma Sigma Delta Research Award, the American Society for Nutrition's Milton L. Sunde Award, the College of Agriculture and Life Sciences' Award for Research Excellence for Basic Research, the American Society of Animal Science's Fellow Award in Research, and the University of Kentucky's Animal and Food Sciences Distinguished Alumnus Award; and

WHEREAS, he made significant research contributions, authored 115 refereed papers, 190 abstracts, seven book chapters, and numerous conference proceedings and technical reports as well as a U.S. patent in the course of this work; and

WHEREAS, he served in a number of national professional technical societies, including as ruminant nutrition section editor of the *Journal of Animal Science*, as nutrition division editor for the *Journal of Animal Science*, and as a member of the board of directors for the *Journal of Animal Science*;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Kenneth Webb, Jr. for his distinguished service to the university with the title of Professor Emeritus of Animal and Poultry Sciences.

RECOMMENDATION:

That the above resolution recommending Dr. Kenneth Webb, Jr. for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITA STATUS

WHEREAS, beginning in 1985 and continuing for 25 years, Ms. Donna Wells faithfully served Virginia Tech as a faculty member in Virginia Cooperative Extension; and

WHEREAS, she served the extension program with distinction in the area of 4-H Youth Development and as unit coordinator of Stafford County; and

WHEREAS, with dedication, she served as the Virginia Cooperative Extension Northern District Director and provided administrative leadership for 19 counties and cities in Northern Virginia, which included direct supervision of 50 district and field extension faculty and staff, fiscal administration, leadership for local and state government relations and support, and district program and volunteer development; and

WHEREAS, she served as a member of the Southern Region Program Leadership Network, the Southern Region Middle Managers Nominating Committee, Epsilon Sigma Phi, and Virginia Extension Service Association; and

WHEREAS, she received Epsilon Sigma Phi's State Mid-Career Award and Stafford County Public Schools' Partners in Education Award;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Ms. Donna Wells for her distinguished service to the university with the title of District Director Emerita of Virginia Cooperative Extension.

RECOMMENDATION:

That the above resolution recommending Ms. Donna Wells for emerita status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1976 and continuing for 34 years, Dr. Terry Wildman faithfully served Virginia Tech as a faculty member in the School of Education in the College of Liberal Arts and Human Sciences; and

WHEREAS, as a member of the educational psychology program, he served Virginia Tech as an outstanding teacher, advisor, colleague, and program leader; and

WHEREAS, he made significant contributions to research on the process of learning to teach, the development and nurturing of learning communities, and curriculum reform; and

WHEREAS, he made over 120 presentations, authored 65 publications, and was awarded \$2.3 million in external funding; and

WHEREAS, he served the faculty in various leadership roles—as president of the College of Education’s faculty association, as president of the College of Human Resources and Education’s faculty association, as a member of departmental, college, and university-level promotion and tenure committees, and as coordinator of the Teacher Education Task Force; and

WHEREAS, as director of the Center for Excellence in Undergraduate Teaching, he lead the university for over 13 years in the design and development of opportunities for faculty collaboration in all aspects of learning, discovery, and engagement; and

WHEREAS, he provided leadership in creating a culture of academic assessment at Virginia Tech that included a strong emphasis on assessment as the collective responsibility of all academic enterprise participants; as critical inquiry into matters of vital interest such as curriculum building, instructional effectiveness, and student development; as a continuous process integrated into daily academic life; and as a process that promotes scholarly understanding of learning and student development; and

WHEREAS, he modeled a collaborative, inclusive leadership style, which in the words of educational scholar Ernest Boyer, meant that he “guided the institution more by inspiration than by directive;”

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Terry Wildman for his distinguished service to the university with the title of Professor Emeritus of Learning Sciences and Technologies.

RECOMMENDATION:

That the above resolution recommending Dr. Terry Wildman for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1976 and continuing for 34 years, Dr. Michael Williams faithfully served Virginia Tech as a faculty member in the Department of Mathematics in the College of Science; and

WHEREAS, his research in the area of applied mathematics was supported by the National Science Foundation and the U.S. Department of Education and resulted in 26 published papers; and

WHEREAS, he researched the area of technology-assisted university instruction and was architect of the Math Emporium—an instructional program that is unique both in scale and in its technology-assisted implementation of a time-tested understanding of how students learn mathematics; and

WHEREAS, he led the Math Emporium team that was awarded the XCaliber Team Award; and

WHEREAS, he received awards for teaching distinguished by his high expectations for student achievement; and

WHEREAS, he served the university community in many capacities, including as director of the Math Emporium, as director of the computing center, as associate vice president for information systems, and as associate vice president for information systems and research computing; and

WHEREAS, he served the profession as a reviewer for the National Science Foundation and the Air Force Office of Scientific Research, and as a member of the boards of the Apple University Consortium, the IBM Higher Education Consortium, and the Commonwealth of Virginia Task Force on Supercomputing;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Michael Williams for his distinguished service to the university with the title of Associate Professor Emeritus of Mathematics.

RECOMMENDATION:

That the above resolution recommending Dr. Michael Williams for emeritus status be approved.

August 30, 2010

RESOLUTION FOR EMERITA STATUS

WHEREAS, beginning in 1980 and continuing for 30 years, Ms. Linda Woodard faithfully served Virginia Tech by providing leadership while serving in several key administrative positions; and

WHEREAS, as Virginia Tech's chief human resources officer, she was deeply engaged in the supporting and advancing excellence for all Virginia Tech employees; served and guided several governance bodies including the Staff Senate; and

WHEREAS, she guided and led initiatives that had significant institutional impact including serving as the Human Resources Information System (HRIS) project leader from 1995 to 1997; and

WHEREAS, she provided effective leadership, guidance, and mentoring to many human resources professionals at Virginia Tech and throughout the Commonwealth of Virginia, and

WHEREAS, she was an important sponsor and collaborator in advancing a family friendly workplace, workplace policies and programs that advance excellence, and guided the implementation of numerous efforts to promote Virginia Tech as an employer of choice; and

WHEREAS, she embodied the university's motto of *Ut Prosim* (That I May Serve);

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Ms. Linda Woodard for her service to the university with the title Assistant Vice President Emerita for Administrative Services.

RECOMMENDATION:

That the above resolution recommending Ms. Linda Woodard for emerita status be approved.

August 30, 2010

RESOLUTION FOR EMERITUS STATUS

WHEREAS, beginning in 1985 and continuing for 25 years, Dr. Bruce Zoecklein faithfully served Virginia Tech as a faculty member in the Department of Food Science and Technology in the College of Agriculture and Life Sciences; and

WHEREAS, with dedication, he taught a variety of undergraduate and graduate courses ranging across the enology and viticulture curriculum, placing strong emphasis on standards and student learning as recognized by the Gamma Sigma Delta Award for Excellence in Teaching; and

WHEREAS, he advised numerous students on master's and doctoral dissertations and helped them develop successful careers in both academic and industrial settings;

WHEREAS, he made significant contributions to the understanding of food science and technology through his work in enology and grape chemistry; and

WHEREAS, he authored or co-authored four books on wine chemistry and analysis, including a Spanish language text; and

WHEREAS, he gave 33 international presentations and provided technical assistance to the governments of China, Italy, Moldova, and Romania; and

WHEREAS, he presented over 400 educational programs, which provided the technical expertise that encouraged Virginia wine industry growth from 29 wineries in 1985 to 180 wineries in 2010; and

WHEREAS, he ably served the scientific community by planning, conducting, and publishing research that was recognized by the Alumni Award for Excellence in Extension, Gamma Sigma Delta's Extension Excellence Award, Napa Valley Wine Council's Research Award, and the Virginia Wine Person of the Year Award; and

WHEREAS, he held leadership positions in professional societies, including as chair of the American Society for Enology and Viticulture, as member of the editorial boards for the *Journal of Food Composition and Analyses* and the *Australian Journal of Grape and Wine Research*; and as conference organizer for national and international societies and funding agencies;

NOW, THEREFORE, BE IT RESOLVED, that the Board of Visitors recognizes Dr. Bruce Zoecklein for his distinguished service to the university with the title of Professor Emeritus of Food Science and Technology.

RECOMMENDATION:

That the above resolution recommending Dr. Bruce Zoecklein for emeritus status be approved.

August 30, 2010

ENDOWED PROFESSORSHIP
H. E. and Elizabeth F. Alphin Professor of Agriculture and Life Sciences

The H. E. and Elizabeth F. Alphin Professorship was established in 1995 by the generous gift of Colonel Horace E. Alphin (Class of 1934) and his wife, Elizabeth, to further the scholarly endeavors of Virginia Tech in the area of agriculture and life sciences. The professorship appointment is for a five-year period.

Dean Alan Grant has nominated Dr. Saied Mostaghimi for reappointment as the H. E. and Elizabeth F. Alphin Professor of Agriculture and Life Sciences, in concurrence with the recommendation of the college honorifics committee.

Dr. Mostaghimi demonstrates outstanding abilities as an educator and leader through his strong research program and mentorship of graduate students. He has received numerous awards, including awards from the American Society of Agricultural and Biological Engineering (ASABE) and the Soil and Water Conservation Society. He has received the Alumni Award for Excellence in Graduate Advising, the Alumni Award for Excellence in Outreach, the Natural Resources and Environmental Management Flagship Award, and the ASABE Fellow Award. In 2009, Dr. Mostaghimi was appointed associate dean for research and graduate studies and director of the Virginia Agricultural Experiment Station.

Dr. Mostaghimi demonstrates extraordinary ability as a researcher through a career dedicated to the investigation of natural resources conservation and the minimization of non-point-source pollution. He has produced a body of scholarship that is nationally recognized for its excellence and innovation. Dr. Mostaghimi's research is the basis for standards used in agricultural and urban non-point-source pollution control programs in Virginia. The standards are used by a number of the commonwealth's agencies, other states, and the federal government for a variety of applications to monitor and manage natural resources.

Dr. Mostaghimi's accomplishments embody the ideals of scholarly excellence that the Alphins cherished and encouraged when they established the Alphin Professorship.

RECOMMENDATION:

That Dr. Saied Mostaghimi be reappointed the H. E. and Elizabeth F. Alphin Professor of Agriculture and Life Sciences, effective September 1, 2010, for a period of five years, with a salary supplement as provided by the endowment and, if available, with funds from the eminent scholars match program.

August 30, 2010

ENDOWED FELLOWSHIP
Blackwood Junior Faculty Fellow of Life Sciences

In 2010, Mary and Willis Blackwood generously established the Blackwood Junior Faculty Fellow of Life Sciences in the College of Science to support and advance instruction, research, and collaboration in the life sciences with a complementary focus on the development of entrepreneurial opportunities. The professorship appointment is for a three-year period. The recipient will work with the Bringing Science to Market (BS2M) program—a collaborative effort between the College of Science and the Pamplin College of Business.

Dean Lay Nam Chang has nominated Dr. Webster Santos, assistant professor of chemistry, to the Blackwood Junior Faculty Fellowship, in concurrence with the recommendation of the College of Science honorifics committee.

Dr. Santos received his Ph.D. in chemistry from the University of Virginia in 2002. His postdoctoral fellowship at Harvard University from 2002 to 2006 was funded by a National Research Service Award from the National Institutes of Health. He joined the Virginia Tech faculty as a tenure-track assistant professor in 2006.

Dr. Santos is an expert in drug discovery and has a strong interest in drug development. His research is currently focused on the development of new drugs for cancer therapy. His work has implications for patients with three common cancers: breast, ovarian, and prostate. One of the major goals of Dr. Santos' research program is to discover drugs that can be brought to market to benefit society.

Dr. Santos has received five patents and has a sixth disclosure in preparation with Virginia Tech Intellectual Property. He has 17 published papers in peer-reviewed journals, and six others submitted or in preparation. He has current and pending grant funding from the National Institutes of Health to support his drug discovery research and has an active laboratory that involves undergraduate and graduate students in chemistry.

RECOMMENDATION:

That Dr. Webster Santos be appointed the Blackwood Junior Faculty Fellow of Life Sciences, effective August 10, 2010, for a period of three years, with the award of an unrestricted research grant to support his research and teaching in the life sciences.

August 30, 2010

ENDOWED PROFESSORSHIP
Virginia Tech Class of 1950 Professor

The Virginia Tech Class of 1950 Professorship was established in July 1997 by a generous gift from members of the Class of 1950. The professorship appointment is for a five-year period. Dr. Michael Renardy and Dr. Yuriko Renardy have jointly held the professorship since the position was first filled in October 2000.

Dean Lay Nam Chang has nominated Drs. Michael and Yuriko Renardy for joint reappointment to the Class of 1950 Professorship, in concurrence with the recommendations mathematics department head, Dr. Peter Haskell, and the departmental and college honorifics committees.

Michael Renardy joined the Virginia Tech Department of Mathematics in 1986 as an associate professor and was promoted to professor in 1989. Yuriko Renardy joined the department in 1986 as an assistant professor, was promoted to associate professor in 1989, and to professor in 1993. Both Michael and Yuriko Renardy research fluid mechanics, a field in which mathematical analysis and computation are combined to address problems associated with blood flow, polymer manufacturing, and other processes fundamental to human health and environmental quality.

Michael and Yuriko Renardy each have highly successful research programs that are consistently funded by external sponsors. Yuriko has published 117 research articles and 2 monographs. Michael has published 165 journal articles, 40 book chapters, a research monograph, a graduate textbook, and a book based on his Computer-Based Medical Systems (CBMS) lecture series. Michael and Yuriko Renardy have been recognized for their research excellence—Yuriko by appointment as a Fellow of the American Physical Society, and Michael with a Presidential Young Investigator Award and a Virginia Tech Alumni Award for Research Excellence.

Michael and Yuriko have held visiting positions at the Australian National University, Cambridge University, and the Institute for Mathematics and its Applications. Between them, they have given invited talks in twelve countries on four continents in the last three years alone. Their research prominence is the foundation for much of their service to the profession, including thirteen editorial positions for Michael and two for Yuriko, as well as proposal review for science foundations in several countries.

Michael Renardy has advised four Ph.D. students and is currently advising three more. Yuriko has advised two Ph.D. students, mentored five postdoctoral associates, and advised a scholar participating in Virginia Tech's Initiative to Maximize Student Diversity program (VT-IMSD). In addition to effective classroom teaching, Michael developed the computer-assisted homework and test system for the sophomore differential equations course, and Yuriko has been an active and visible provider of instructional assistance at the Math Emporium.

RECOMMENDATION:

That Michael and Yuriko Renardy be reappointed the Virginia Tech Class of 1950 Professors, effective October 1, 2010, for a period of five years, with salary supplements as provided by the endowment and, if available, with funds from the eminent scholar match program.

August 30, 2010

ENDOWED PROFESSORSHIP
Joseph H. Collie Professor of Chemical Engineering

The Joseph H. Collie Professorship was established to introduce chemical engineering students to advanced business and marketing concepts in chemicals distribution management. The professorship is awarded for a period of two years to a distinguished visiting professor who has extensive industrial experience and expertise in production, marketing, and sales of chemical products. The professorship has neither an eminent scholar salary supplement nor an operating budget. Rather, the accumulated balance of the professorship income fund is used to support the salary of the recipient, as specified by the terms and conditions of the professorship fund agreement.

Dean Richard Benson has nominated Dr. Peter Rim for appointment to the Joseph H. Collie Professorship, in concurrence with recommendations of the chemical engineering department head, Dr. John Walz, and the departmental and college honorifics committees.

Dr. Rim received his Ph.D. in polymer science from Penn State in 1983. In addition, he holds an MBA degree. Dr. Rim has more than 25 years of experience in the development, commercialization, and marketing of performance polymer products. He has held key positions with S. C. Johnson and Son, Honeywell-AlliedSignal, and Performance Fibers. Dr. Rim is an expert in modern business strategies, product development processes, customer relations in a global society, and quality improvement and control. His background and expertise in both chemical technology and business management are extremely valuable to students who are seeking careers in the chemical industry.

RECOMMENDATION:

That Dr. Peter Rim be appointed the Joseph H. Collie Professor of Chemical Engineering, effective July 10, 2010, for a period of two years, with salary provided as specified by the terms and conditions of the professorship fund agreement.

August 30, 2010

ENDOWED FELLOWSHIP
Hassinger Senior Faculty Fellow of Physics

In August 2007, William E. Hassinger, Jr. generously established the Hassinger Senior Faculty Fellowship to enhance the national and international prominence of the Virginia Tech Department of Physics. The fellowship supports and rewards departmental research programs considered most likely to generate important scientific breakthroughs of a fundamental or applied nature. The fellowship appointment is for a three-year period, and is renewable.

Dean Lay Nam Chang has nominated Dr. Leo Piilonen to the Hassinger Senior Faculty Fellowship, in concurrence with the recommendations of physics department head, Dr. Beate Schmittmann, the departmental selection committee, and the college honorifics committee.

Dr. Piilonen joined the Virginia Tech Department of Physics in 1987 as an assistant professor, was tenured and promoted to associate professor in 1993, and promoted to professor in 2002.

Dr. Piilonen leads an internationally known research program in high-energy particle physics, which focuses specifically on charge-parity symmetry breaking in B meson decay. He is a leading member of the Belle Collaboration at the KEK National Laboratory in Japan, and his work was cited as the experimental verification of the theoretical predictions honored with the Nobel Prize in Physics in 2008.

Dr. Piilonen has a long and consistent record of research funding. Uninterrupted since 1989, he has served as principal investigator or co-principal investigator on grants totaling approximately \$7.6 million, with his personal share being approximately \$3.3 million. Dr. Piilonen has supervised nine Ph.D. students and trained seven postdoctoral fellows. He has authored or co-authored 369 refereed publications in international journals and conference proceedings.

Dr. Piilonen enjoys a distinguished record of leadership in the scientific community. He chairs the Institutional Board (IB) of the long-standing Belle and the newly formed Belle II collaboration. As IB chair, he is responsible for policy formulation, processing of new member applications, and election of the spokespersons for these two large collaborations that bring together several hundred physicists from approximately 50 institutions around the world.

RECOMMENDATION:

That Dr. Leo Piilonen be appointed the Hassinger Senior Faculty Fellow of Physics, effective August 10, 2010, for a period of three years, with a salary supplement and research support as provided by the endowment and, if available, with funds from the eminent scholar match program.

August 30, 2010

ENDOWED FELLOWSHIP
Dr. A. C. Lilly, Jr., Faculty Fellow of Nanoscience

Dr. A. C. Lilly, Jr., a former professor in the Department of Physics, established and generously endowed the Dr. A. C. Lilly, Jr., Faculty Fellowship. Dr. Lilly established the fellowship to provide support for an outstanding College of Science faculty member in the field of nanoscience. The fellowship appointment is for a three-year period.

Dean Lay Nam Chang has nominated Dr. Harry Dorn to the Dr. A. C. Lilly, Jr., Faculty Fellowship, in concurrence with the recommendation of the college honorifics committee.

Dr. Dorn joined the Department of Chemistry in 1974 as an assistant professor and rose through the ranks to become a full professor in 1985. He is currently the director of two centers—the Center for Self-Assembled Nanostructures and Devices (CSAND) and the Carbonaceous Nanomaterials Center (CNC).

Dr. Dorn's expertise in nanomaterials is recognized internationally, nationally, and within the Commonwealth of Virginia. He served on the National Science Foundation's Working Group to Define Major Research Facilities for Nanoscale Science and Technology (2001), the First and Second Conferences on Nanoscience and Nanotechnology (co-sponsored by Oak Ridge National Lab, 2000 and 2001), and the steering committee of INanoVA, a conference on nanotechnology in Virginia. Dr. Dorn received the Virginia Tech Alumni Award for Research Excellence in 2006.

Dr. Dorn's scholarship record is truly remarkable. He has published over 130 peer-reviewed articles, including several in *Science* and *Nature*. Dr. Dorn has had over 400 citations per year since 2008 and he holds three U.S. patents. He has been funded to pursue the basic science of nanomaterials and their applications. Since 2005, Dr. Dorn has been a principal investigator on research projects exceeding \$6 million.

Dr. Dorn is also active in nanoscience education. He developed "A Hands-On Short Course on Buckyballs, Nanotubes, and other Nanomaterials," which was funded by a grant from the National Science Foundation/Nanotechnology Undergraduate Education. He also created a new graduate-level interdisciplinary course on carbonaceous nanomaterials that was first offered in 2008 and co-taught with Professor Mool Gupta in the Department of Electrical Engineering at the University of Virginia.

RECOMMENDATION:

That Dr. Harry Dorn be appointed the Dr. A. C. Lilly, Jr., Faculty Fellow of Nanoscience, effective August 10, 2010, for a period of three years, with an operating fund as provided by the endowment.

August 30, 2010

ENDOWED PROFESSORSHIP
Joseph R. Loring Professor of Electrical and Computer Engineering

The Joseph R. Loring Professorship was established in 2003 by a generous gift from Joseph R. Loring, a 1947 graduate who founded Joseph R. Loring and Associates, Inc.—a worldwide engineering firm headquartered in Washington, D.C. The professorship appointment is for a five-year period.

Dean Richard Benson has nominated Dr. Saifur Rahman for reappointment to the Joseph R. Loring Professorship, in concurrence with recommendations of the electrical and computer engineering department head, Dr. Scott Midkiff, and the departmental and college honorifics committees.

Dr. Rahman came to Virginia Tech in 1979 as an assistant professor, and was promoted to associate professor in 1983, and to professor in 1987. He was appointed Joseph R. Loring Professor in 2005.

During his first term as the Joseph R. Loring Professor of Electrical and Computer Engineering, Dr. Rahman continued his strong record of research, teaching, and service. He received grants and contracts, totaling about \$2.5 million, from the National Science Foundation, Department of Energy, and Department of Defense to research areas of alternative energy and energy efficiency.

Dr. Rahman developed and teaches an alternative energy online course that typically enrolls about 150 students per offering. Since August 2005, Dr. Rahman has advised one Ph.D. student to completion, three M.S. students to completion, and is currently supervising five M.S. and Ph.D. students.

Dr. Rahman serves the professional and local communities in highly visible ways, including as vice president of the Institute of Electrical and Electronics Engineers (IEEE) Power and Energy Society, editor-in-chief of the *IEEE Transactions on Sustainable Energy*, and series editor for an IEEE online tutorial package regarding the “smart grid.” He serves the National Science Foundation as a member of the Office of International Science and Engineering Advisory Committee and as a member of the Government Performance Results Act Advisory Committee. He is a member of the Arlington County, Virginia, task force on sustainable energy.

RECOMMENDATION:

That Dr. Saifur Rahman be reappointed the Joseph R. Loring Professor of Electrical and Computer Engineering, effective August 10, 2010, for a period of five years, with a salary supplement as provided by the endowment and, if available, with funds from the eminent scholar match program.

August 30, 2010

ENDOWED PROFESSORSHIP
C. P. “Sally” Miles Professor of Science

In 1986, Melvin “Cy” Young generously established the C. P. “Sally” Miles Professorship to honor C. P. Miles. Mr. Miles arrived at Virginia Tech in 1897 and was associated with the university for 59 years. Mr. Miles had two nicknames—“Sally,” from his high school days, and “Mr. VPI,” from his connection with so many Virginia Tech alumni. Mr. Miles’ contributions have been recognized not only by this named professorship, but also by having a playing field, a stadium, and a building named in his honor.

Dean Lay Nam Chang has nominated Dr. Patricia Dove to the C. P. “Sally” Miles Professorship, in concurrence with the recommendations of the departmental and college honorifics committees.

Dr. Dove received her B.S. and M.S. degrees from Virginia Tech and completed her Ph.D. at Princeton University. She completed a postdoctoral fellowship at Stanford University and was a faculty member at Georgia Tech for several years before joining the Virginia Tech faculty in 2000.

Dr. Dove received the Geochemical Society’s Clarke Medal in 1996 and on two separate occasions, she received the United States Department of Energy’s Best University Research Award. She is a Fellow of the American Geophysical Union, the Geochemical Society, and the European Association of Geochemistry.

Dr. Dove has received more than \$4.5 million in grant funding to support her research. Her publications have been cited more than 2,600 times. She has had four papers published in *Science*, one in *Nature*, and four in the *Proceedings of the National Academy of Sciences*. Dr. Dove has supervised seven doctoral students, seven master’s students, and 12 postdoctoral fellows.

A leading geochemist, Dr. Dove has made major contributions to research in the biogeochemistry of earth processes, the physical basis of biomineralization, and geochemical controls on geophysical properties. Her past and future research will continue to influence these important areas.

RECOMMENDATION:

That Dr. Patricia Dove be appointed the C. P. “Sally” Miles Professor of Science, effective August 10, 2010, with a salary supplement as provided by the endowment and, if available, with funds from the eminent scholar match.

August 30, 2010

**ENDOWED FELLOWSHIP
PriceWaterhouseCoopers Junior Faculty Fellow
of Accounting and Information Systems**

The PriceWaterhouseCoopers Junior Faculty Fellowship in Accounting and Information Systems was established through the generous gifts of alumni and friends employed by PriceWaterhouseCoopers and by the PriceWaterhouseCoopers Foundation. The professorship appointment is for a five-year period.

Dean Richard Sorensen has nominated Dr. Reza Barkhi for the PriceWaterhouseCoopers Junior Faculty Fellowship, in concurrence with the recommendations of the accounting and information systems department head, Dr. Robert Brown, and the departmental honorifics committee.

Dr. Barkhi joined the faculty in 1997 and was promoted to associate professor in 2002. From 2006 to 2009, Dr. Barkhi was on leave from Virginia Tech to serve as management information systems department head at American University of Sharjah/United Arab Emirates.

Dr. Barkhi is an associate professor of accounting and information systems. He has published 35 refereed journal articles, four book chapters, and has made more than 30 presentations at information systems meetings. He has five papers currently under review and seven additional research projects at various stages of completion.

Dr. Barkhi has served on 21 Ph.D. committees—14 of which have been outside the department. He has taught a variety of departmental courses at the graduate and undergraduate levels, and is a valued member of the department.

RECOMMENDATION:

That Dr. Reza Barkhi be appointed the PriceWaterhouseCoopers Junior Faculty Fellow of Accounting and Information Systems, effective August 10, 2010, for a period of three years, with a salary supplement as provided by the endowment and, if available, with funds from the eminent scholar match program.

August 30, 2010

ENDOWED PROFESSORSHIP
Wilson E. Schmidt Professor of Economics

The family of Dr. Wilson Schmidt, former department head of economics, generously established the Wilson E. Schmidt Professorship in Economics. The professorship was first awarded in 2001 to Dr. Aris Spanos, who was appointed to a three-year renewable term. The College of Science recommends that the professorship be awarded as a five-year renewable appointment, consistent with many other renewable endowed professorships in the college.

Dean Lay Nam Chang has nominated Dr. Aris Spanos for reappointment to the Wilson E. Schmidt Professorship in Economics, in concurrence with recommendations of the Department of Economics executive committee and the college honorifics committee.

Dr. Spanos is an internationally known econometrician whose research addresses statistical models, empirical data, and the implications for economic theories. He first joined the Virginia Tech faculty in 1986; left to serve as acting rector at the University of Cyprus from 1995 through 1998; and returned to Virginia Tech as a professor of economics in 1998. He served as economics department head from 2001 to 2005.

Dr. Spanos' scholarship record is truly remarkable. He has written three influential books that have been published by Cambridge University Press. His books are widely used around the world in graduate econometrics courses. He has published more than 50 articles in professional journals and nine book reviews. He is regularly invited to give talks and seminars. Dr. Spanos has demonstrated excellence in research, teaching, and service.

RECOMMENDATION:

That Dr. Aris Spanos be reappointed as the Wilson E. Schmidt Professor of Economics, effective August 10, 2010, for a period of five years, with a salary supplement as provided by the endowment and, if available, with funds from the eminent scholar match program.

August 30, 2010

ENDOWED PROFESSORSHIP
Willis G. Worcester Professor of Electrical and Computer Engineering

Established in 1983, the Willis G. Worcester Professorship in Electrical and Computer Engineering is traditionally awarded to a leading researcher in the field of electrical and computer engineering.

Dean Richard Benson has nominated Dr. Jeffrey Reed for reappointment to the Willis G. Worcester Professorship, in concurrence with recommendations of the electrical and computer engineering department head, Dr. Scott Midkiff, and the departmental and college honorifics committees. The professorship appointment is for a five-year period.

Dr. Reed came to Virginia Tech in 1992 as an assistant professor. He was promoted to associate professor in 1997 and to professor in 2001. He currently serves as director of the Wireless@VT research group and as interim director of the Ted and Karyn Hume Center for National Security and Technology.

During his first five-year term as the Willis G. Worcester Professor of Electrical and Computer Engineering, Dr. Reed excelled in all aspects of research, teaching, and service. He received over \$5.8 million in new grants and contracts from the National Science Foundation, Department of Defense, and other sponsors for research in wireless communications and related areas.

Dr. Reed is a highly productive scholar. Since August 2005, he has published 24 journal papers and 41 refereed conference papers. He has advised six Ph.D. students to completion, co-advised one Ph.D. student to completion, and is currently advising 13 Ph.D. students. Dr. Reed continues to teach communications area courses on timely topics. He was instrumental in establishing the Intelligence Community Center of Academic Excellence, which is a collaborative effort with Howard University that is funded by the Office of the Director of National Intelligence. Of particular note, Dr. Reed was a driving force in the establishment of the Ted and Karyn Hume Center for National Security and Technology, and now serves as the center's interim director.

RECOMMENDATION:

That Dr. Jeffrey Reed be reappointed the Willis G. Worcester Professor of Electrical and Computer Engineering, effective August 10, 2010, for a period of five years, with a salary supplement as provided by the endowment and, if available, with funds from the eminent scholar match program.

August 30, 2010

RESOLUTION ON NAMING THE PAUL B. SIEGEL POULTRY RESEARCH CENTER IN THE COLLEGE OF AGRICULTURE AND LIFE SCIENCES

WHEREAS, Dr. Paul B. Siegel has been a longtime faculty member at Virginia Tech in the Department of Animal and Poultry Sciences, becoming a member of the teaching faculty in 1957 and serving the university for more than 50 years; and

WHEREAS, Dr. Siegel is an active proponent of further enhancing the learning experience of students and the reputation of the Poultry Research Program at Virginia Tech as one of the best in the nation; and

WHEREAS, Dr. Paul Siegel has significantly advanced the quality of poultry education and research through his mentorship initiatives and lifetime commitment to the training and development of poultry industry professionals, leaving a tremendous academic legacy by teaching more than 2,000 students and directing more than 50 masters theses and doctoral dissertations throughout his tenure; and

WHEREAS, Dr. Siegel has been inducted into the American Poultry Industry Hall of Fame by the American Poultry Historical Society, the industry's highest honor, for devoting more than 60 years to researching and teaching poultry science, in addition to holding key leadership roles in national and international industry organizations and winning numerous awards; and

WHEREAS, Dr. Paul B. Siegel carries the distinction of University Distinguished Professor (1975) Emeritus for his scholarly achievements attracting national and international attention with a focus on the role of genetics on nutrition, disease, immunology, physiology, and behavior of poultry, documented in over 400 published works; and

WHEREAS, Dr. Siegel has been and continues to be a valued member of the university community, being recognized as a member of the Pylon Society and the Hokie Club, as well as serving as Faculty Senate President, Past President of the Virginia Tech Chapter of the Phi Kappa Phi Honor Society, graduate commencement speaker, and member of several university committees;

NOW, THEREFORE, BE IT RESOLVED, that in acknowledgement of the service, generosity, and academic legacy of Dr. Paul B. Siegel, and in recognition of past and future benefits to the university, the poultry research facilities located on Tech Center Drive, where Dr. Siegel spent more than half a century carrying out his life's work, will be known as the Paul B. Siegel Poultry Research Center.

RECOMMENDATION:

That the above resolution naming the Paul B. Siegel Poultry Research Center be approved.

August 30, 2010

**RESOLUTION ON NAMING THE THOMAS M. WELLS CENTER FOR EMERGING
ISSUES IN ACCOUNTING IN THE PAMPLIN COLLEGE OF BUSINESS**

WHEREAS, the late Thomas M. Wells '73 graduated from Virginia Tech with a bachelor of science degree in Accounting from the Pamplin College of Business and attained the position of senior vice president and chief financial officer of GEICO Corporation, and his widow, Kathy Dargo, is a loyal friend and supporter of Virginia Tech; and

WHEREAS, the late Mr. Wells and Ms. Dargo have always been active proponents of further enhancing the reputation of Virginia Tech, the Pamplin College of Business and the Department of Accounting and Information Systems, and the college and department to recruit and retain the brightest and most talented students in the nation, while also seeking to strengthen the college's reputation as a premier institution of higher learning; and

WHEREAS, Thomas and Kathy Dargo have established The Thomas M. Wells Endowment Memorial Scholarship, in honor of their son, Wilbur Francis Wells, in support to the Pamplin College of Business and the Department of Accounting and Information Systems;

**Superseded by attached resolution
passed by the Board of Visitors
on March 26, 2018.**

WHEREAS, Kathy has made a generous provision in her estate plans to provide outstanding future support to the Pamplin College of Business and the Department of Accounting; and

WHEREAS, Thomas and Kathy have been valued members of the university community and have been recognized as members of the Ut Prosim Society, the university's most prestigious donor recognition society, at the benefactor level;

NOW, THEREFORE, BE IT RESOLVED, that in acknowledgement of the service and generosity of Thomas Wells and Kathy Dargo, and in recognition of past and future benefits to the university, the Department of Accounting and Information Systems in the Pamplin College of Business will establish upon receipt of funding The Thomas M. Wells Center for Emerging Issues in Accounting.

RECOMMENDATION:

That the above resolution naming of the Thomas M. Wells Center for Emerging Issues in Accounting be approved.

August 30, 2010

**RESOLUTION ON NAMING THE THOMAS M. WELLS AND KATHY DARGO
CENTER FOR EMERGING ISSUES IN ACCOUNTING
IN THE PAMPLIN COLLEGE OF BUSINESS**

WHEREAS, the late Thomas M. Wells '73 who graduated from Virginia Tech with a Bachelor of Science degree in Accounting from the Pamplin College of Business and attained the position of senior vice president and chief financial officer of GEICO Corporation, and his widow, Kathy Dargo, were loyal friends and supporters of Virginia Tech; and

WHEREAS, the late Mr. Wells and Ms. Dargo were always active proponents of further enhancing the reputation of Virginia Tech, the Pamplin College of Business, and the Department of Accounting and Information Systems, and enabling the college and department to recruit and retain the brightest and most elite faculty scholars in the nation, while also seeking to strengthen the teaching and learning experience; and

WHEREAS, Thomas and Kathy were extremely generous by establishing The Thomas M. Wells Endowed Scholarship in Accounting and the Wilbur Francis Wells Memorial Scholarship, which provide outstanding support to the Pamplin College of Business and the College of Science; and

WHEREAS, Kathy made a very generous provision in her estate plans to provide outstanding future support to the Pamplin College of Business and the Department of Accounting documented in 2010; and

WHEREAS, Kathy had a passion and love for horses and passed away from a riding accident in 2016, doing what she loved; and

WHEREAS, Thomas and Kathy have been valued members of the university community and have been recognized as members of the Ut Prosim Society, the university's most prestigious donor recognition society; and

WHEREAS, the Board of Visitors agreed to the naming of the Thomas M. Wells Center for Emerging Issues in Accounting on August 30, 2010, upon receipt of funding from Ms. Dargo's estate at a future date; and

WHEREAS, Ms. Dargo made a request of the Development Office in 2012 to have her name also added to the Center, and it is the desire of the Pamplin College of Business to honor this request due to Ms. Dargo's untimely passing and the receipt of funding in 2017;

NOW, THEREFORE, BE IT RESOLVED, that in acknowledgement of the service and generosity of Thomas Wells and Kathy Dargo, and in recognition of their collective philanthropy to the university, the Department of Accounting and Information Systems in the Pamplin College of Business will establish The Thomas M. Wells and Kathy Dargo Center for Emerging Issues in Accounting; and

BE IT FURTHER RESOLVED that this resolution supersedes the resolution passed by the Board of Visitors on August 30, 2010, naming the Thomas M. Wells Center for Emerging Issues in Accounting.

RECOMMENDATION:

That the above resolution naming of the Thomas M. Wells and Kathy Dargo Center for Emerging Issues in Accounting be approved.

March 26, 2018

RESOLUTION ON NAMING THE THOMAS M. WELLS CENTER FOR EMERGING ISSUES IN ACCOUNTING IN THE PAMPLIN COLLEGE OF BUSINESS

WHEREAS, the late Thomas M. Wells '73 who graduated from Virginia Tech with a bachelor of science degree in Accounting from the Pamplin College of Business and attained the position of senior vice president and chief financial officer of GEICO Corporation, and his widow, Kathy Dargo, is a loyal friend and supporter of Virginia Tech; and

WHEREAS, the late Mr. Wells and Ms. Dargo have always been active proponents of further enhancing the reputation of Virginia Tech, the Pamplin College of Business and the Department of Accounting and Information Systems, and enabling the college and department to recruit and retain the brightest and most elite faculty scholars in the nation, while also seeking to strengthen the teaching and learning experience; and

WHEREAS, Thomas and Kathy have been extremely generous by establishing The Thomas M. Wells Endowed Scholarship in Accounting and the Wilbur Francis Wells Memorial Scholarship, which provide outstanding support to the Pamplin College of Business and the College of Science; and

WHEREAS, Kathy has made a very generous provision in her estate plans to provide outstanding future support to the Pamplin College of Business and the Department of Accounting; and

WHEREAS, Thomas and Kathy have been valued members of the university community and have been recognized as members of the Ut Prosim Society, the university's most prestigious donor recognition society, at the benefactor level;

NOW, THEREFORE, BE IT RESOLVED, that in acknowledgement of the service and generosity of Thomas Wells and Kathy Dargo, and in recognition of past and future benefits to the university, the Department of Accounting and Information Systems in the Pamplin College of Business **will establish upon receipt of funding** The Thomas M. Wells Center for Emerging Issues in Accounting.

RECOMMENDATION:

That the above resolution naming of the Thomas M. Wells Center for Emerging Issues in Accounting be approved.

August 30, 2010

NOTE: Above is the original resolution submitted and approved in August 2010. The request is to amend the name of the center to also include Ms. Dargo's name, making the new name the **Thomas M. Wells and Kathy Dargo Center for Emerging Issues in Accounting**. It also modifies the provisional status, since the funds have been received due to Ms. Dargo's untimely passing.

**RESOLUTION ON NAMING THE WILLIAMSON FINANCIAL PLANNING ROOM IN
324 HUTCHESON HALL**

WHEREAS, Steven R. Williamson '74 has been a stalwart supporter for the Financial Planning Program since his first visit in October 1999; and

WHEREAS, Steven R. Williamson has been an enthusiastic advocate and sponsor for the Financial Planning Program by making continuous and substantive gifts of time and financial support for over a decade; and

WHEREAS, Steven R. Williamson made a generous gift to the Financial Planning Program to support program excellence, innovation and collaboration; and

WHEREAS, the Agricultural & Applied Economics Department and the Finance, Insurance & Business Law Department have recommended a permanent tribute be made in honor of Steven R. Williamson that will benefit future students from both departments in the Financial Planning Program;

NOW, THEREFORE, BE IT RESOLVED, that as an enduring tribute to Steven R. Williamson for his extraordinary generosity and voice of support, 324 Hutcheson Hall will be a study and research room for Financial Planning students and will be known as the Williamson Financial Planning Room.

RECOMMENDATION:

That the above resolution naming 324 Hutcheson Hall as the Williamson Financial Planning Room be approved.

August 30, 2010

**RESOLUTION ON NAMING THE EDWIN KIMBLE "KIMBO" CLARK, JR. FLAGPOLE
AT THE BURROWS-BURLESON TENNIS CENTER**

WHEREAS, Jon Ramthun played varsity tennis at Virginia Tech and graduated with a B.S. degree in Finance in 1984; and

WHEREAS, Edwin "Kimbo" Clark played varsity tennis at Virginia Tech and graduated with a B.A. degree in French in 1985; and

WHEREAS, Jon Ramthun and Kimbo Clark were friends and teammates at Virginia Tech; and

WHEREAS, Kimbo Clark passed away and Jon Ramthun would like to honor him by making a memorial gift to Virginia Tech Athletics that would cover the costs for placing a flagpole, plaque, and flagpole maintenance at the Burrows-Burleson Tennis Center on campus;

NOW, THEREFORE, BE IT RESOLVED, that in appreciation to Jon Ramthun for his generosity and in tribute to the legacy of his friend and teammate, Edwin "Kimbo" Clark, that the flagpole to be placed at the Burrows-Burleson Tennis Center be known as the Edwin Kimble "Kimbo" Clark, Jr. Flagpole, given in his honor by Jon "Bum" Ramthun, Class of 1984.

RECOMMENDATION:

That the above resolution naming the Edwin Kimble "Kimbo" Clark, Jr. Flagpole be approved.

August 30, 2010

Faculty Personnel Changes Report

FINANCE AND AUDIT COMMITTEE

Quarter ending June 30, 2010

The Faculty Personnel Changes Report includes new appointments and adjustments in salaries for the general faculty, including teaching and research faculty in the colleges, and for administrative and professional faculty that support the University including the library, extension, academic support, athletics, and administration. The report is organized by senior management area (college or vice presidential area).

Since the last Board meeting, the University has made the following faculty personnel appointments and salary adjustments:

Teaching and Research Faculty

New Appointments with Tenure or Continued Appointment	1
New Appointments to Tenure-Track or Continued Appointment-Track	1
New Appointments to Non-Tenure Track	0
Adjustments in Salary	7

Administrative and Professional Faculty

New Appointments	8
Adjustments in Salary	18
Adjustments in Salary - Contractual Arrangement	30
One-time payments for Post-Season Sports Events	13

RECOMMENDATION:

That the Board ratify the Faculty Personnel Changes Report.

August 30, 2010

FACULTY PERSONNEL CHANGES
August 30, 2010

TEACHING AND RESEARCH FACULTY

NEW APPOINTMENTS

NAME	TITLE	DEPARTMENT	REG or RSTR	Months	CURRENT ACTION			
					EFF DATE	% APPT	ANNUAL RATE	
							BASE	ONE-TIME
<u>Agricultural & Life Sciences</u>								
Moeltner, Klaus	Associate Professor - Tenured	Agricultural & Applied Economics	Regular	9	25-Dec-10	100	\$	115,000
<u>Dean of Libraries</u>								
Miller, Rebecca	Instructor	University Libraries	Regular	12	25-May-10	100	\$	43,700

TEACHING AND RESEARCH FACULTY***ADJUSTMENTS***

NAME	TITLE	DEPARTMENT	REG or RSTR	Months	CURRENT ACTION			
					EFF DATE	% APPT	ANNUAL RATE	
							BASE	ONE-TIME
<u>Agricultural & Life Sciences</u>								
Grabau, Elizabeth	Professor	Plant Pathology, Physiology & Weed Science	Regular	12	24-Jun-10	100	\$	123,209
McDowell, John	Associate Professor	Plant Pathology, Physiology & Weed Science	Regular	12	25-Jun-10	100	\$	92,831
<u>Architecture & Urban Studies</u>								
Ermann, Michael	Associate Professor	School of Architecture - Design	Regular	9	10-Apr-10	100	\$	86,750
<u>Engineering</u>								
Case, Scott	Professor	Engineering Science & Mechanics	Regular	12	25-May-10	100	\$	140,000
Priya, Shashank	Associate Professor	Materials Science & Engineering	Regular	9	10-Apr-10	100	\$	102,000
Vlachos, Pavlos	Associate Professor	Mechanical Engineering	Regular	9	25-Apr-10	100	\$	116,357
<u>Vice President for Research</u>								
Dingus, Thomas	Director of Virginia Tech Transportation Institute	Virginia Tech Transportation Institute	Regular	12	25-Jun-10	100	\$	300,000

ADMINISTRATIVE AND PROFESSIONAL***NEW APPOINTMENTS***

NAME	TITLE	DEPARTMENT	REG or RSTR	Months	CURRENT ACTION			
					EFF DATE	% APPT	ANNUAL RATE	
							BASE	ONE-TIME
<u>President</u>								
Dietter, David	Athletic Trainer	Athletics	Regular	12	25-Apr-10	100	\$	37,000
Gess, Mark	Associate University Legal Counsel	University Legal Counsel	Regular	12	5-Apr-10	100	\$	65,000
Quarry, Danielle	Assistant Swim Coach	Athletics	Regular	12	25-May-10	100	\$	26,000
Richardson, John	Assistant Men's Basketball Coach	Athletics	Regular	12	2-Jun-10	100	\$	130,000
Robelot, Reed	Assistant Swim Coach	Athletics	Regular	12	25-May-10	100	\$	33,000
Shepardson, Jolene	Assistant Coach, Volleyball	Athletics	Regular	12	25-Apr-10	100	\$	38,000
Wolff, Dennis	Director of Men's Basketball Operations	Athletics	Regular	12	15-Jun-10	100	\$	47,025
<u>Vice President & Dean for Graduate Education</u>								
Fontaine, Sherry	Associate Dean for the National Capital Region & Director of the Northern Virginia Center	Northern Virginia Center	Regular	12	1-Jun-10	100	\$	112,000

ADMINISTRATIVE AND PROFESSIONAL**ADJUSTMENTS**

NAME	TITLE	DEPARTMENT	REG or RSTR	Months	CURRENT ACTION			
					EFF DATE	% APPT	ANNUAL RATE	
							BASE	ONE-TIME
<u>Agricultural & Life Sciences</u>								
Goerlich, Daniel	District Program Leader	Virginia Cooperative Extension, Central District	Regular	12	10-Jun-10	100	\$	73,000
Iden, Charles	Program Director	Northern 4-H Center	Regular	12	10-Apr-10	100	\$	40,000
<u>Business</u>								
Copenhaver, Katherine	Academic & Study Abroad Advisor	Dean - Business	Regular	12	24-May-10	100	\$	35,000
<u>Engineering</u>								
Martens, Bradley	Director of Finance & Budget	Dean - Engineering	Regular	12	25-Jun-10	100	\$	73,262
Watford, Bevelee	Interim Department Head - Engineering Education	Dean - Engineering	Regular	12	25-May-10	100	\$	170,000
<u>President</u>								
Autry, Adrian	Assistant Men's Basketball Coach	Athletics	Regular	12	1-May-10	100	\$	95,000
Baer, Katherine	Athletic Trainer	Athletics	Regular	12	25-Apr-10	100	\$	35,300
Ballein, John	Associate Athletic Director, Football Operations	Athletics	Regular	12	1-Feb-10	100		\$ 20,000
Beamer, Franklin	Head Football Coach	Athletics	Regular	12	1-Feb-10 1-Feb-10	100		\$ 50,000 \$ 17,500
Bonadona, Christophe	Assistant Men's Tennis Coach	Athletics			16-Jun-10			\$ 1,000
Cavanaugh, James	Assistant Football Coach	Athletics	Regular	12	1-Jan-10 1-Feb-10	100	\$	227,049 \$ 25,000
Cianelli, David	Director of Track, Field, Cross Country Programs	Athletics	Regular	12	10-Jun-10 16-Jul-10	100	\$	107,767 \$ 17,000
Foster, Charles	Assistant Coach, Track & Field	Athletics	Regular	12	16-Jul-10	100		\$ 10,000
Foster, Robert	Defensive Coordinator	Athletics	Regular	12	1-Jan-10 1-Feb-10	100	\$	404,460 \$ 50,000
Gambino, Michael	Assistant Baseball Coach	Athletics	Regular	12	16-Jul-10	100		\$ 1,000
Gentry, R. Michael	Assistant Athletic Director, Athletic Performance	Athletics	Regular	12	1-Jan-10 1-Feb-10	100	\$	148,931 \$ 20,000
Goforth, Michael	Assistant Athletic Director, Athletic Training	Athletics	Regular	12	1-Feb-10	100		\$ 10,031.37

continued

ADMINISTRATIVE AND PROFESSIONAL***ADJUSTMENTS***

NAME	TITLE	DEPARTMENT	REG or RSTR	Months	CURRENT ACTION			
					EFF DATE	% APPT	ANNUAL RATE	
							BASE	ONE-TIME
Gray, Torrian	Assistant Football Coach	Athletics	Regular	12	1-Jan-10	100	\$ 146,895	
					1-Feb-10			\$ 20,000
Greenberg, Seth	Head Men's Basketball Coach	Athletics	Regular	12	1-Apr-10	100	\$ 222,346	
					16-Apr-10			\$ 10,000
Hardwick, Jacob	Head Golf Coach	Athletics			16-Jun-10			
Hite, William	Associate Head Coach	Athletics	Regular	12	1-Jan-10	100	\$ 259,300	
					1-Feb-10			\$ 25,000
Hughes, Peter	Head Baseball Coach	Athletics	Regular	12	16-Dec-09	100		\$ 100,000
					16-Jul-10			\$ 2,000
Jack, Greg	Assistant Coach, Track & Field	Athletics	Regular	12	16-Jul-10	100		\$ 7,000
Johnson, James	Assistant Men's Basketball Coach	Athletics	Regular	12	10-Jun-10	100	\$ 135,805	
Karlin, Lester	Equipment Manager	Athletics	Regular	12	1-Feb-10	100		\$ 7,016.13
McGranahan, Jennifer	Assistant Coach, Track & Field	Athletics			16-Jul-10			\$ 7,000
Newsome, Curtis	Assistant Football Coach	Athletics	Regular	12	1-Jan-10	100	\$ 173,634	
					1-Feb-10			\$ 20,000
O'Cain, T. Michael	Assistant Football Coach	Athletics	Regular	12	1-Jan-10	100	\$ 216,715	
					1-Feb-10			\$ 20,000
Phillips, Robert	Volunteer Assistant Coach, Track & Field	Athletics			16-Jul-10			\$ 7,000
Sharp, Brian	Associate Head Golf Coach	Athletics	Regular	12	16-Jun-10	100		\$ 1,000
Sherman, Kevin	Assistant Football Coach	Athletics	Regular	12	1-Jan-10	100	\$ 173,603	
					1-Feb-10			\$ 20,000
Stinespring, Bryan	Offensive Coordinator	Athletics	Regular	12	1-Jan-10	100	\$ 280,552	
					1-Feb-10			\$ 50,000
Thomas, Benjamin	Assistant Coach, Track & Field	Athletics	Regular	12	16-Jul-10	100		\$ 7,000
Thompson, James	Head Men's Tennis Coach	Athletics	Regular	12	16-Jun-10	100		\$ 2,000
Turgeon, David	Associate Head Baseball Coach	Athletics	Regular	12	16-Jul-10	100		\$ 1,000
Wiles, Charles	Assistant Football Coach	Athletics	Regular	12	1-Jan-10	100	\$ 209,666	
					1-Feb-10			\$ 20,000
Weaver, James	Director of Athletics	Athletics	Regular	12	1-Jan-10	100	\$ 380,596	
					1-Feb-10			\$ 45,309

continued

ADMINISTRATIVE AND PROFESSIONAL***ADJUSTMENTS***

NAME	TITLE	DEPARTMENT	REG or RSTR	Months	CURRENT ACTION			
					EFF DATE	% APPT	ANNUAL RATE	
							BASE	ONE-TIME
<u>Senior Vice President & Provost</u>								
Chadwick, Heather	Director of Marketing & Communications	Center for the Arts	Regular	12	3-May-10	100	\$	70,000
Flora, Bethany	Assistant Provost	Provost's Office	Regular	12	25-Apr-10	100	\$	67,000
Hyer, Patricia	Associate Provost for Academic Administration	Provost's Office	Regular	12	10-Mar-10	100	\$	155,000
Ramsey, David	Research Analyst	Institutional Research & Effectiveness	Regular	12	25-May-10	100	\$	53,000
<u>Vice President for Administrative Services</u>								
Mason, Ann	Retirement Coordinator	Human Resources	Regular	12	25-Apr-10	100	\$	51,000
Moore, Karisa	Manager of Equity Initiatives	Equity & Access	Regular	12	25-May-10	100	\$	47,080
<u>Vice President for Finance and CFO</u>								
Cusimano, John	Associate Treasurer & Director of Investments & Debt Management	Investments & Debt Management	Regular	12	1-May-10	100	\$	175,000
<u>Vice President for Information Technology</u>								
McPherson, David	Assistant Director, ePortfolio Development	Learning Technologies	Regular	12	1-Jun-10	100	\$	52,000
<u>Vice President for Research</u>								
Knocke, William	Associate Vice President for Research Programs	Research/Interdisciplinary Programs	Regular	12	10-Jun-10	100	\$	227,860
Schroeder, Tracey	Interim Director for Finance & Administration	Virginia Tech Carilion Research Institute	Regular	12	10-Apr-10	100	\$	102,000

Remarks to the Virginia Tech Board of Visitors

August 2010

Shane McCarty, Undergraduate Representative to the Board of Visitors

Thank you Rector Nolen, President Steger, members of the board, and guests. Allow me to start by thanking you for this special opportunity to serve as the Undergraduate Representative. This opportunity allows me to continue living our University's motto of "Ut Prosim." Before I begin, I want to rewind back to April 2007 when I was senior in high school, still contemplating where I should attend college. It was on April 17th, 2007 that I knew Virginia Tech was where I needed to be. Students, faculty, staff, administrators, and community members came together to show a level of caring and a sense of community that I had never seen before. This was a place where I could become a better person and I could help others do the same.

The success of the university's strategic priority: to educate the **whole** student, can be attributed to a number of programs, classes, and people. But, I would like to highlight the three concepts with the most importance and impact on a student's life: **Student Engagement, Inclusion, and the overall Quality of a Hokie Education.**

Students who are actively engaged report deeper learning, perceive campus to be supportive, and are more satisfied with their college experience. This is precisely what is happening for a select few students on our campus today.

Take, for example, the level of engagement required of the multi-disciplinary team of students and faculty that created the *Lumenhaus*, which won an International Award at the first European Solar Decathlon in Madrid. Or the three computer science students, who were solely funded by the Student Government Association to design a real-time GPS tracking system for Blacksburg buses called the "Bt Tracker." This project, which provided students with the opportunity to develop an application that would benefit the entire Blacksburg community, became a national Associated Press story this past summer.

A Virginia Tech administrator once told me: "You could learn almost everything you learn here, from a textbook at home. You come to college to meet people you never would have met if you stayed home." More opportunities for students to connect with one another and better the world around a common project, such as the Lumenhaus and BT Tracker, could transform an entire undergraduate experience through engagement. While these stories have supported some undergraduate students in their mission to solve real-world problems, so many more are waiting for an opportunity to experience such a unique level of engagement.

To update you on other examples of engagement on campus, the third annual Hokie Camp gave freshmen a chance to learn traditions, feel the Hokie Spirit, and connect with upperclassmen, before ever stepping on campus for their first semester.

Gobblerfest attracted thousands from the university community as it showcased engagement opportunities through student organizations and provided visibility to downtown merchants. VT-Engage put forth an initiative called “32 for 32,” which asks students to pledge 32 hours of community service this year.

Inclusion is the second major element that complements the strategic goal of educating the whole student. A new initiative put forth by the Division of Student Affairs called “Hokie Helpers,” allowed for faculty members, students, and staff to welcome new students by carrying items to student rooms, and unloading vehicles with parents. Key administrators, including President Steger, Dr. Tillar, and Dr. Spencer, along with student leaders, volunteered to be Hokie Helpers --handing out Hokie water to thirsty freshmen as they move in.

A student-led initiative, with the support of the Office of Diversity and Inclusion, Residence Life and Multicultural Programs and Services called: “Actively Caring for Inclusive Excellence” provides students with the opportunity to live the Principles of Community. Resident Advisors and student leaders are looking for “Actively Caring behaviors” on campus. If, for example, I were to see an individual performing a kind act, I would thank the person for caring, hand him, or her, a green Actively Caring For People wristband as a token of appreciation and then encourage the student to “pay-it forward” by passing the wristband on to someone else as to create a cycle of compassion and inclusion on our campus. Many Resident Advisors have already credited the wristband as a powerful tool for empowering their residents to create inclusion on the hall.

Maya Angelou’s quote sums up the idea of **inclusion** through the bond of interpersonal relationships: *“I’ve learned that people will forget what you said, people will forget what you did, but people will never forget how you made them feel.”* Students may be attracted to Virginia Tech based on our rankings, but many more leave talking about our sense of community.

When I spoke with President Steger recently, he reminded me that as university leaders, we must continue to promote a quality education for all VA Tech students. This year Virginia Tech continues to be listed among the 100 best undergraduate programs in the nation. Quality remains a priority, even beyond the classroom. Students appreciation for the 25,000 square foot expansion of the McComas gym facility is evident from the limited space available during peak hours.

A campus climate survey, scheduled to be administered this fall, will offer student insights on additional areas of student needs besides the three themes previously mentioned. If you walk around campus, you are sure to spot a student wearing a shirt, received at orientation with the message: “What’s a Hokie? I am.” Let me share my expanded version of what a Hokie means. A Hokie is a person who cares more about someone else than him or herself; a Hokie lives each day by our school motto and thereby, engages, includes, and strives for quality in every aspect of life. While the aforementioned components of this report do not mention a specific policy, they do set a direction students seek.

With every new decision made this year, I urge you to ask yourself: Will this decision help students engage and include others while providing each of them with the quality education they seek and deserve?

Constituency Report to the Board of Visitors

August 30, 2010

Deepu George, Graduate Representative to the Board of Visitors

Introduction

Thank you Rector Nolan. Good afternoon President Steger and Members of the Board. I thank the members of the Virginia Tech administration, students, and the Board of Visitors for giving me this opportunity to represent graduate students.

For those of you who do not know me, I am a Ph. D student in family therapy with research interests in community capacity building and civic engagement. My past 3 years at Virginia Tech has introduced me to a vibrant community, a special program called Transformative Graduate Education, and has continuously inspired my commitment to service. As an engaged citizen scholar, Virginia Tech continues to nurture and engage me in personal and professional capacities.

All of us higher education, both students and administration are facing challenges, some of which are beyond the scope of our current resources. However, I believe as citizens of this land-grant institution, we can harness our relations, better connect our resources, and mutually affirm our strengths as a community to solve the challenges of 21st century higher education.

As our University continues the global expansion of higher education, the graduate community will usher in a new era of learning through interdisciplinary education. Inter-disciplinary education provides the graduate school the competitive edge in bringing brighter students and better funding opportunities. Dean DePauw, in collaboration with students and faculty from across the university, leads the effort to increase Virginia Tech's capacity for interdisciplinary education. This attitude of collaborative learning reinvents pedagogy and affirms our identity as a 21st century university, one that must achieve a flexible system of adaptive learning to invent the future in a competitive global market. This advancement in graduate education is another testament to our commitment to deliver quality education. As the leaders of this university, we look forward to your active support and guidance to achieve these goals.

As we grow globally, our populations within the commonwealth continue to grow in diversity. For example, we have more full time graduate students in our NCR capital this year than our previous years. Our graduate population welcomes several non-traditional graduate students – returning professionals, students with family – increasing the diversity of life experience, student relationships, and age. To better serve the needs of our constituency, graduate students continue to work on child care issues and graduate living options. Such amenities increase our chances of recruiting competitive talent into our colleges and also increase the chances of retaining the students that enroll with us.

Graduate students are increasingly concerned about the *rate of change* in the capital fee they pay every semester. While the comprehensive fee from the university has remained more or less the same with an increase of only \$8.00, the capital fees from the state has increased to \$284.00 from

\$85.00 in the year 2008. With freeze in salaries and rise in out of pocket expenses, it would be effective if the fee can be prevented from increasing any further. Graduate students have been pro-active in their efforts to understand the fees and have conducted education sessions to help the constituency better understand the fee structure. We also hope to organize stronger graduate representation this year for Hokie day in our efforts to educate the legislature about the importance of graduate students in the University and the State of Virginia. President Steger and Dean DePauw have been in the loop on these conversations and hope to work together as we have in the past to better understand this issue.

This year Shane and I are working together on promoting “Engagement and Inclusion” through creating a shift in understanding, experiencing, and embracing the concept of diversity. Our initiatives to engage the student communities at large strategically align themselves with the current *Diversity Strategic Plan*. Specifically, within the Dimensions of Inclusive Excellence at Virginia Tech, we aspire to influence *campus climate and inter-group relations* as well as *institutional infrastructure*. Along with student governments (both graduate and undergraduate) and student organizations, several offices including the Office of *Diversity and Inclusion* will support this student movement. When a community comes together to cross traditional boundaries and understand each other, we reduce the height of our silos and weaken our walls of resistance, helping us become inclusive at an experiential level. This culture of actively caring for people not only helps with recruitment, but also addresses the important issue of retention. Being part of an inclusive community that lives the “Principles of Community” imparts members with skill-sets that last a lifetime. The ability of a community to dignify others will make Virginia Tech a leader in Inclusive Excellence.

In conclusion, I want to leave you with a story. In the Spring of 2010, Dean DePauw held several luncheons with minority groups to understand how the graduate community can continue to advance in inclusive excellence. In the course of the conversation, the Dean would always ask one question: “If you were to return to Virginia Tech campus in 10 years, what would you notice that will indicate that we are an inclusive community?” In one of the groups, a student raised her hand and said “I would know we are an inclusive community when there are no more diversity committees on campus.”

As we continue to strategize and plan, I hope over time our plans and strategies become obsolete and all of us can experience the benefits of our investments today.

On that note, I, along with the graduate school and the larger student community thank each one of you for actively caring and diligently guiding our transformation into a global land-grant institution. Both Shane and I, along with our respective constituencies look forward to year of collaboration and partnerships.

Staff Senate Constituency Report
Virginia Tech Board of Visitors
August 29 & 30, 2010
Maxine Lyons, Staff Senate President

Rector Nolen, members of the Board of Visitors, President Steger, administrators, and guests:
Thank you for this opportunity to share with you some of this year's plans from the Virginia Tech Staff Senate. I am looking forward to and excited about this coming year as President of the Staff Senate. It is truly an honor and privilege to bring this information to you today.

As in years past, the Staff Senate continues to work with VT Engage to help prevent hunger in our area. Along with general food donations to needy people, another part of this process is working with the Interfaith Pantry to supply food for school age children through the "Stuff a Backpack" program.

The Senate will work closely with the CSPA (Commission on Staff Policies and Affairs) which is the resolution and policy making arm of the Senate, to implement the Staff Emeritus honor for retiring staff who meet the criteria that is already in place within VT policy.

With the increase in parking fees and the projected increases to come, the Staff Senate would like to invite the Faculty Senate to work together to review and possibly create a parking fee payment plan based on a percentage of each VT employee's salary that would fairly distribute the payment load.

In order for the Senate to have appropriate representation from and to all employee areas, the Senate is reviewing the numbers of employees who have converted from Staff to AP Faculty, how many employees have recently retired, and how many employees have been affected through a reorganization within their unit. Reviewing these numbers will determine if Staff Associations currently represent employee units accurately. These findings may require creating more Staff Associations or a change in the number of Senators from existing Associations. Creating adequate representation with a Staff Association in Northern VA is also needed.

As in years past, the Senate is prepared to continue to support the Multicultural Reception with a donation to the annual event this year.

The Senate will form the McComas Leadership Committee that will prepare for and host the annual McComas Leadership Seminar; an event that is open to all Staff each Spring on Reading Day. An ad hoc committee will be formed through the CSPA to promote and elect candidates who will receive the *Staff Leadership Award* for 2011-12. This award will be presented to the winner(s) at the Seminar.

The Senate has been asked to look into bicycles being used and parked on the sidewalks. This situation often creates a hazard to pedestrians, both as the bike is moving and also when it is illegally parked, making it difficult to maneuver around it.

Since the Winter Closing Resolution passed last year and the University will be closed from Dec 24th through January 1, 2012, the change needs to be publicized effectively during the year to help

employees be prepared with enough leave to carry them through this closing. The Senate is working on ways to publicize this more.

Another item to be addressed this year is staff classes and staff training issues. This will be a large issue for the Senate this year with several related topics listed below:

- *Currently, Staff employees and AP Faculty have different leave reporting systems. The Senate is looking into creating a uniform method to be used for both types of employees.
- *The process for staff to register for classes needs to be simplified.
- *Flexible hours need to be made available for staff as well as AP faculty.

These are a few topics that have currently been brought to the attention of the Staff Senate. As situations and concerns arise during the coming year, the Senate will address them appropriately.

In concluding this report, I would like to thank you for taking this time to allow me to discuss the Staff Senate plans for this coming year and I would like to ask if you as the board, would like to learn more about what the staff employees do at Virginia Tech or if there is any other information that you would like for me to bring forward to future meetings? I would love to share information with you.

Respectfully,
Maxine Lyons
President, Staff Senate

Virginia Tech Faculty Senate

Constituent Report to the Board of Visitors

Mike Ellerbrock, Senate President

August 30th 2010

Dear Board Members: Though I cannot presume to speak for all my faculty peers, I would like to offer you some personal observations based on my daily interaction with countless colleagues over 18 years at Virginia Tech:

- ✓ *With you, we are teammates in the business of human capital development, committed to the institution's mission of building knowledge that builds people;*
- ✓ *With you, we are inspired by the annual beauty and hope of young minds, committed to their service as role models connected to something larger than ourselves;*
- ✓ *With you, we are energized by the liberal pursuit of free inquiry, committed to the goal of enrichment of human virtues;*
- ✓ *With you, we are educators of the whole person, committed to integrating body, mind and soul in the classroom, workplace and athletic field;*
- ✓ *With you, we are partners in the enterprise of economic advancement, committed to tangible enhancement of the quality of our neighbors' lives;*
- ✓ *With you, we are vested stakeholders in the future of the Commonwealth, committed to the most fruitful use of taxpayers' resources, families' tuition and donors' gifts;*
- ✓ *With you, we are strengthened by diversity in thought and experience, committed to celebrating the academy's breadth and depth;*
- ✓ *With you, we are passionate voices dedicated to a cause, committed to reasoned debate tempered with humor and charity;*
- ✓ *With you, we are inheritors of a magnificent tradition, committed to fostering the ideals of wisdom, truth and justice;*
- ✓ *You are much more than distinguished Visitors to this boundless campus, for together we are sibling shipmates on a deep sea whose tides touch many shores.*

On behalf of our faculty, thank you.