

Committee Minutes

ACADEMIC, RESEARCH, AND STUDENT AFFAIRS COMMITTEE

November 14 2022

Committee Members Present: Melissa Nelson (chair), Sandy Davis, and Carrie Chenery

Board Members Present: Anna Buhle (graduate and professional student representative), Holli Drewry (A/P representative), Jamal Ross (undergraduate student representative), Robert Weiss (faculty representative), and Serena Young (staff representative).

Guests: Rosemary Blieszner, Cyril Clarke, Lance Collins, David Crotts, Diane Deffenbough, Corey Earles, Ron Fricker, Rachel Gabriele, Luisa Havens Gerardo, Guru Ghosh, Rebekah Gunn, Nanci Hardwick, Matt Holt, Frances Keene, Jack Leff, Rich Mathieson, Stephanie Overton, John Porter, Ellen Plummer, Menah Pratt, Kevin Pitts, John Provo, Robin Queen, Julia Ross, Tim Sands, Karen Eley Sanders, Susan Short, Aimee Surprenant, and G. Don Taylor, Judy Taylor, Charlotte Waggoner, Chris Williams, Chris Wise,

OPEN SESSION

1. Welcome and Report of Closed Session. M. Nelson, chair of the committee, welcomed attendees to the meeting. Over a breakfast meeting, committee members shared their interests in continuing to learn about various dimensions of the university including the foci of the committee: academic, research, and student affairs.

The committee took a moment to acknowledge the tragedy unfolding at University of Virginia. Our thoughts are with the students, their families, and the entire UVa community.

M. Nelson read the report of the committee's Closed Session actions: approval of 31 resolutions for appointments to emeritus/emerita status, approval of six resolutions for appointments to endowed chairs, professorships, or fellowships, approval of seven resolutions for appointments with tenure, one resolution to approve a faculty research leave, and ratification of the personnel changes report (shared with the Finance and Resource Management committee).

2. Review and Approval of Open Session Agenda.

3. Consent Agenda Items. Approval of August 23, 2022 ARSA meeting minutes, acceptance of the report of reappointments to Endowed Chairs, Professorships, and Fellowships, approval of Pratt Fund program and expenditures, ratification of the 2022 –

2023 Faculty Handbook, reaffirmation of the name of the Steger Center for International Scholarship, and approval of a resolution for the exclusion of certain officers/directors.

The committee voted unanimously to approve the agenda as presented including approval of all Consent Agenda items.

4. Provost's Update. C. Clarke, executive vice president and provost, updated the committee on several initiatives. Searches for the deans of the College of Architecture, Arts, and Design and the Pamplin College of Business are underway. Search committees are assessing applications and meeting with candidates. Selected candidates will be invited to interview in each of the next steps of the search processes.

Provost Clarke updated the committee on enrollment growth. The university benefits from exceptional enrollment management processes using admissions, comprehensive data, and modeling to manage and forecast enrollment. The Enrollment Management Advisory Committee is a cross-university group that guides all dimensions of enrollment management including the factors that facilitate acceptances from prospective students. Under the guidance of the advisory committee, the university's undergraduate enrollment has remained stable for four years and is now turning attention to exploring future enrollment growth. An Enrollment Growth Committee is in initial phases gathering data and information to assess capacities for possible growth in enrollment. During its initial phase, the committee identified internal and external factors that impact capacity for growth and how a possible increase in students has influence on each factor such as recreational space, wellness, instruction, residence halls including new and/or refurbished buildings. Now in its next phase, the committee is working closely with off-campus community partners. Provost Clarke has met with officials with the Towns of Blacksburg and Christiansburg, and with leaders in Montgomery County. Conversations include examining capacity for graduate and professional students and faculty on matters such as housing and schools. Discussions are underway with academic leaders at Radford University on collaborations for undergraduate, graduate, and professional students.

Provost Clarke updated the committee on the implementation of the university's new shared governance system approved by the Board of Visitors in June of 2022. The university's leadership continues to assess what has been accomplished and what adjustments can be made. The new University Council cabinet, co-chaired by the Provost and Faculty Senate President meets every two weeks and guides the university's commissions and assembles the agenda for the University Council.

In addition to the Enrollment Growth Committee, two additional task forces continue their work on university priorities. A task force is examining graduate assistantships and its report will be submitted to the provost at the end of the fall semester. On-line learning is being explored by a task force and the university has implemented a committee

recommendation to align the university's Technology-enhanced Learning and On-line Strategies (TLOS) unit under the provost.

5. Panel Discussion: Economic Development. John Provo, director of Virginia Tech's Center for Economic Development and Community Engagement presented information on the university's economic development efforts including the work of Chris Williams, L.S. Professor of Mechanical Engineering in the College of Engineering, and community partnerships with Nanci Hardwick, CEO of Aeroprobe Corporation and MELD Manufacturing Corporation. Panelists described the various ways in which university efforts are integrated into and advance regional and national economic development. Specifically, Virginia Tech is making significant, award-winning, contributions to advancing additive manufacturing. Faculty are engaged in research partnerships, provide subject matter expertise, and future workforce development. Committee members engaged in discussion with panelists, college deans, and faculty members in attendance. The university benefits from working closely with companies and remaining aware of the needs of industry. The university will benefit from a coordinated point of contact to help external partners navigate the many opportunities that might be possible.

6. Agenda Items for Committee Meeting. Committee members are encouraged to contact the chair with any items of interest for future agendas.

7. Adjournment. The committee adjourned at 10:45.

Open Session Agenda

ACADEMIC, RESEARCH AND STUDENT AFFAIRS COMMITTEE

Inn at Virginia Tech

November 14, 2022

Committee Breakfast (1872 Salon)

7:00 – 7:45 a.m.

Committee Meeting (Latham Ballroom A/B)

9:00 – 11:30 a.m.

<u>Agenda Item</u>	<u>Reporting Responsibility</u>
1. Welcome	M. Nelson
2. Review and Approve Open Session Agenda	M. Nelson
3. Consent Agenda	M. Nelson
A. Approval of August 23, 2022 Meeting Minutes	
B. Report of Reappointments to Endowed Chairs, Professorships, and Fellowships	
*C. Approval of Pratt Fund Program and Expenditures Report <i>(shared with Finance and Resource Management)</i>	
*D. Ratification of 2022 - 2023 Faculty Handbook	
*E. Reaffirmation of the Name of the Steger Center for International Scholarship	
*F. Resolution for Exclusion of Certain Officers/Directors	
4. Provost's Update and Discussion	C. Clarke
# 5. Panel Discussion: Economic Development	J. Provo, C. Williams, N. Hardwick
6. Agenda Items for March 2023 Committee Meeting	M. Nelson
7. Adjourn Committee Meeting	M. Nelson

Closed Session Agenda
ACADEMIC, RESEARCH, AND STUDENT AFFAIRS COMMITTEE

Inn at Virginia Tech
Monday, November 14, 2022
8:30 – 9:00 a.m.

<u>Agenda Item</u>	<u>Reporting Responsibility</u>
1. Motion to Begin Closed Session	M. Nelson
* 2. Resolutions to Approve Appointments to Emeritus/a Status (31)	C. Clarke
* 3. Resolution to Approve Appointments Endowed Chairs, Professorships, or Fellowships (6)	C. Clarke
* 4. Resolution to Approve Appointments with Tenure (7)	C. Clarke
* 5. Resolution to Approve Faculty Research Leave (1)	C. Clarke
* 6. Ratification of Personnel Changes Report <i>(shared with Finance and Resource Management Committee)</i>	C. Clarke
7. Motion to End Closed Session	M. Nelson
8. Report of Closed Session Action items	M. Nelson

Open Session Consent Agenda

ACADEMIC, RESEARCH, AND STUDENT AFFAIRS COMMITTEE

November 14, 2022

- A. Approval of August 23, 2022 Meeting Minutes
- B. Report of Reappointments to Endowed Chairs, Professorships, and Fellowships
- *C. Approval of Pratt Fund Program and Expenditures Report
(shared with Finance and Resource Management)
- *D. Ratification of 2022 - 2023 Faculty Handbook
- *E. Reaffirmation of the Name of the Steger Center for International Scholarship
- *F. Resolution for Exclusion of Certain Officers/Directors

REPORT

Reappointments to Endowed Chairs, Professorships, or Fellowships (3)

November 14, 2022

The president and executive vice president and provost have confirmed the reappointment of the following faculty to endowed chair, professorship, or fellowship appointments with a salary and/or operating supplement provided by the endowment and, if available, with funds from the eminent scholars match program.

College of Agriculture and Life Sciences (1)

John McDowell

J. B. Stroobants Professorship of Biotechnology

College of Engineering (2)

Rui Qiao

John R. Jones III Faculty Fellowship
in Mechanical Engineering

Subash Sarin

Paul T. Norton Professorship

CENTER FOR ECONOMIC AND COMMUNITY ENGAGEMENT

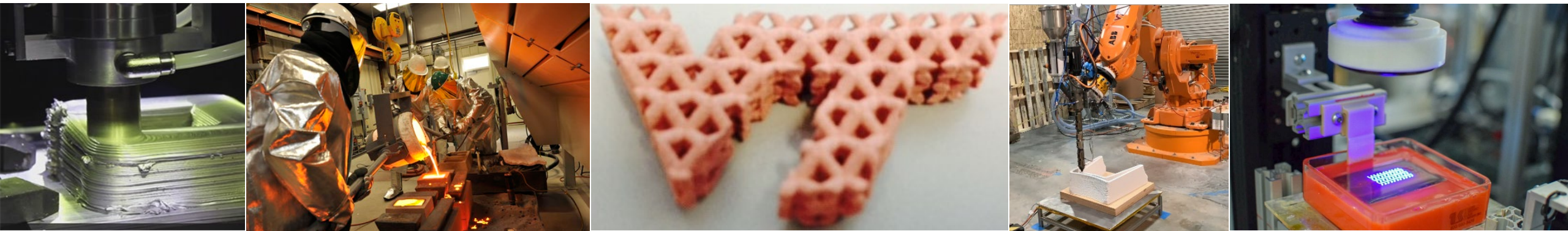
RESEARCH, STUDENT SUCCESS, AND ECONOMIC DEVELOPMENT

Academic, Research, and Student Affairs Committee
Board of Visitors
November 14, 2022



OUTREACH & INTERNATIONAL AFFAIRS
CENTER FOR ECONOMIC AND
COMMUNITY ENGAGEMENT
VIRGINIA TECH.

VIRGINIA TECH IS RANKED AS ONE OF THE TOP GLOBAL ADDITIVE MANUFACTURING PROGRAMS



[2021 ALL3DP, Top University 3D Printing & Additive Manufacturing Programs](#) (Global) 2021: Virginia Tech #4

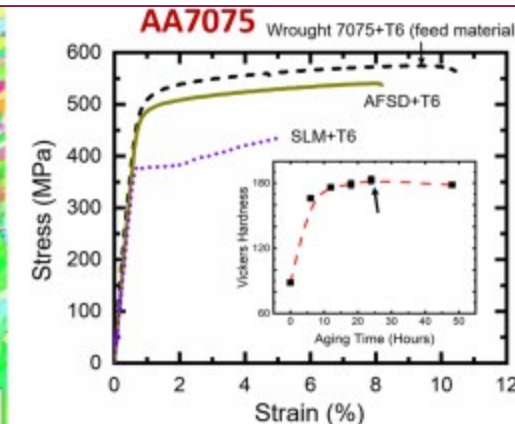
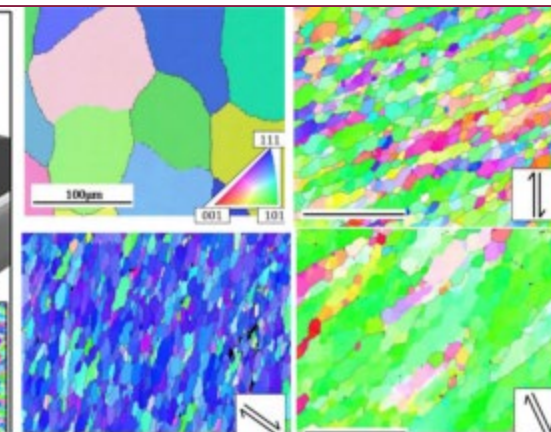
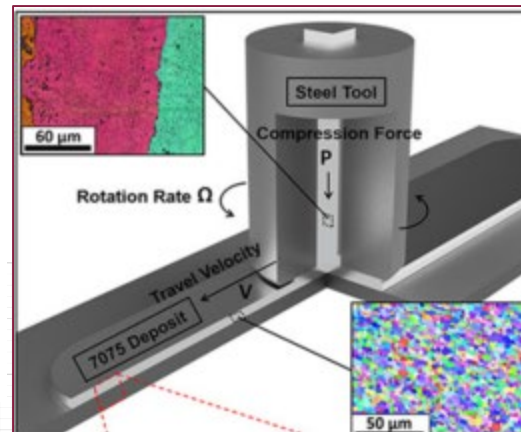
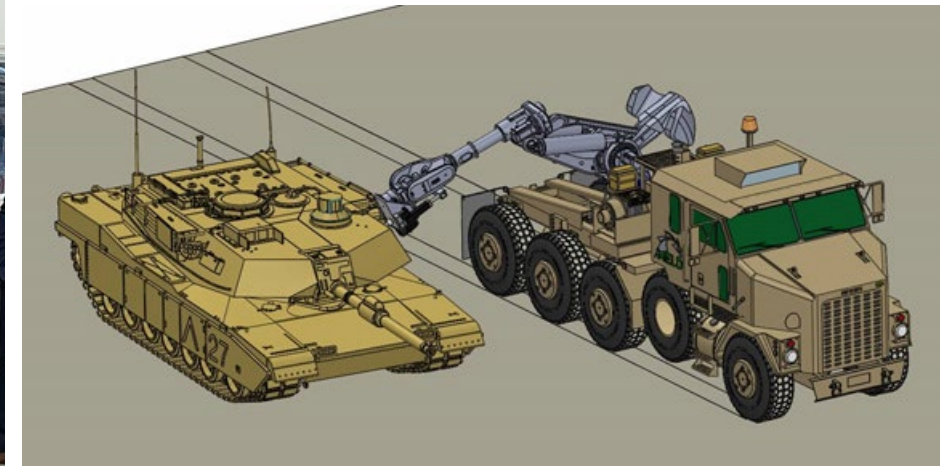
[2021 GrabCAD The Top 7 Schools with Additive Manufacturing Labs](#): VT

[2022 Manufactur3D Top 6 US Universities with 3D Printing Labs](#): Virginia Tech #5





SUBJECT MATTER EXPERTISE, RESEARCH PARTNERSHIPS, CHARACTERIZATION FACILITIES, AND FUTURE WORKFORCE



- > <https://vtx.vt.edu/articles/2022/03/research-and-industry-partnership-helps-forge-21st-century-metal.html>
- > <https://vtx.vt.edu/articles/2022/08/eng-3d-printing-year-2022.html>

Capability and Constraint Today

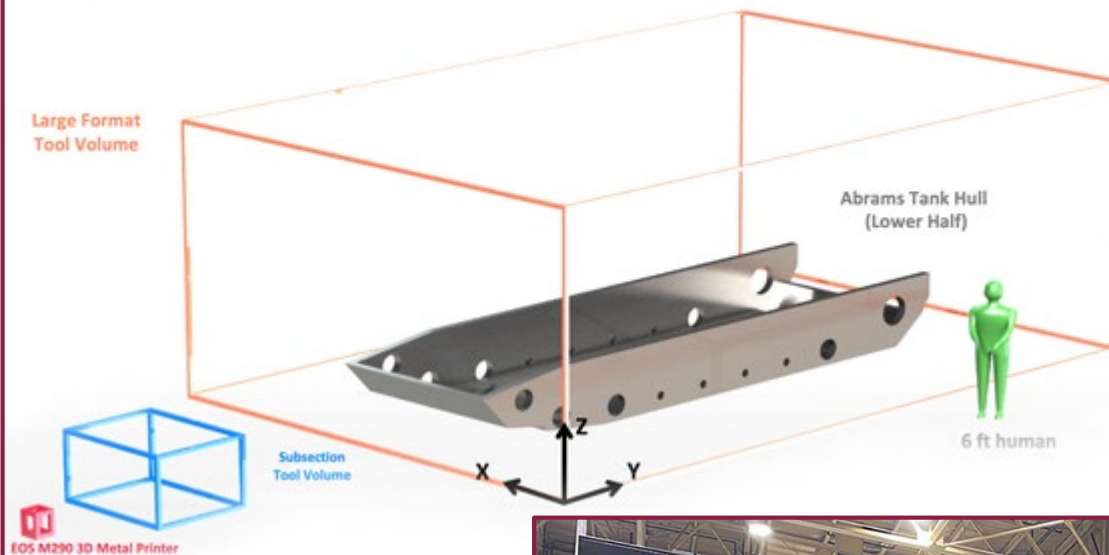
EOS M290 3D Metal Printer
Volume: $9.9' \times 9.9' \times 12.8' = 0.74 \text{ ft}^3$
Size of a Bread Toaster

GVSC Capability

Subsection Tool
Volume: $5' \times 4' \times 3' = 60 \text{ ft}^3$
8,012% Increase

RIA Capability

Large Format Tool
Volume: $20' \times 30' \times 12' = 7200 \text{ ft}^3$
973,347% Increase

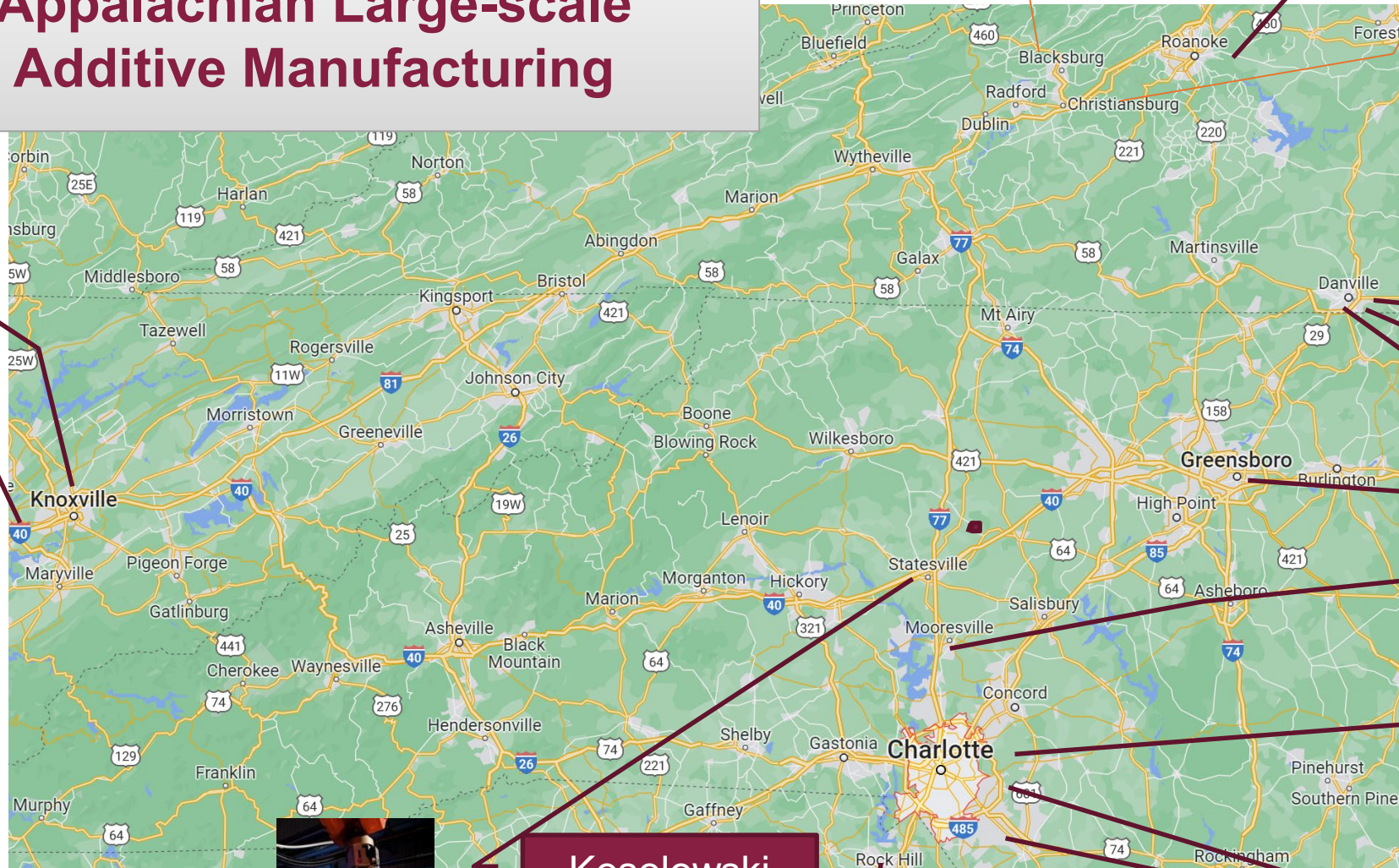


COLLEGE OF ENGINEERING MANUFACTURING SPINE INITIATIVE

“This [manufacturing] spine is intended to provide a thematic framework that integrates the college’s transdisciplinary science and engineering research activities with its educational activities.”



Appalachian Large-scale Additive Manufacturing



UT
Knoxville

ORNL

VT

Attachment C
NRV CCs

MELD

CCAM

VSU

Fastech

IALR

Danville CC

NC A&T

Ingersoll Rand
Trane

Siemens
Charlotte
Advanced
Technology
Collaboration Hub

Keselowski
Advanced
Manufacturing

3D Systems

UNCC

Collins
Aerospace



CONNECTING EXPERIENTIAL LEARNING AND RESEARCH TO GROW COMPANIES ACROSS VIRGINIA

- > Advanced Manufacturing (Blacksburg and beyond)
- > Aquaculture (Hampton Roads)
- > Controlled environment agriculture (Danville)
- > Semiconductors (Northern Virginia)
- > Automated, connected, and electrified transportation (Blacksburg)

PANEL DISCUSSION



Nanci Hardwick

- > CEO of MELD Manufacturing
- > CEO of the Aeroprobe Corp.



Chris Williams

- > L.S. Randolph Professor of Mechanical Engineering
- > Director, DREAMS Lab



John Provo

- > Executive Director of the Center for Economic and Community Engagement

CENTER FOR ECONOMIC AND COMMUNITY ENGAGEMENT

JOHN PROVO

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OUTREACH & INTERNATIONAL AFFAIRS
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COMMUNITY ENGAGEMENT
VIRGINIA TECH.