Document Title

Annual Report of the Interim Activity and Work of the Board of Visitors of Virginia Polytechnic Institute and State University (Virginia Tech) during 2018

Author

Virginia Polytechnic Institute and State University (Virginia Tech)

Enabling Authority

§23-2.05

Executive Summary

The Board of Visitors of Virginia Polytechnic Institute and State University (Virginia Tech) has taken multiple actions to ensure compliance with the provisions of the legislation as described below:

As stated in the *Code of Virginia §23-2.05*, the boards of visitors of each public institution of higher education and the State Board for Community Colleges shall submit to the General Assembly and the Governor an annual executive summary of its interim activity and work no later than the first day of each regular session of the General Assembly.

During 2018, the Board held four regular meetings on March 25-26, June 3-4, August 26-27, and November 4-5; two Executive Committee meetings on March 13 and October 6; one retreat for the full Board on August 25, and one special meeting of the full Board on November 26.

The following is a list of actions that were taken by the Board during 2018:

March 13, 2018 – Executive Committee

(Refer to Item #16, March 26, 2018)

- Approval of the Virginia Tech Carilion School of Medicine Doctor of Medicine (MD) Degree Program
 - https://bov.vt.edu/assets/approval-of-the-vtcsom-doctor-of-medicine-degree-program.pdf
- Approval to Incorporate into the Virginia Tech Handbook the Types of Faculty Appointments and Related Policies for Faculty of the Virginia Tech Carilion School of Medicine https://bov.vt.edu/assets/approval-to-incorporate-into-the-virginia-tech-handbook-the-types-of-faculty-appointments-and-related-policies-for-faculty-of-the-virginia-tech-carilion-school-of-medicine-.pdf
- Approval to Reaffirm the Virginia Tech Mission for the Southern Association of Colleges and Schools Commission on Colleges https://bov.vt.edu/assets/approval-to-reaffirm-the-virginia-tech-mission-for-the-southern-association-of-colleges-and-schools-commission-on-colleges.pdf

March 26, 2018 - Full Board

- 4. Approval of Appointments to the Virginia Coal and Energy Research and Development Advisory Board
 - https://bov.vt.edu/assets/approval-of-appointments-to-the-virginia-coal-and-energy-research-and-development-advisory-board.pdf
- 5. Approval of Appalachian Power Company Easement https://bov.vt.edu/assets/approval-of-appalachian-power-company-easement.pdf

- 6. Approval to Change Authority to Manage Staff Career Achievement Award https://bov.vt.edu/assets/approval-to-change-authority-to-manage-staff-career-achievement-award.pdf
- 7. Approval of Issuance of Quitclaim Deed on Property Located in Northampton County, Virginia https://bov.vt.edu/assets/approval-of-issuance-of-quitclaim-deed-on-property-located-in-northampton-county%2c-virginia.pdf
- 8. Approval of Appointment to Blacksburg-Virginia Polytechnic Institute Sanitation Authority https://bov.vt.edu/assets/approval-of-appointment-to-blacksburg-virginia-polytechnic-institute-sanitation-authority.pdf
- 9. Approval on Representation of the Board at Public Hearings for Authorities https://bov.vt.edu/assets/approval-on-representation-of-the-board-at-public-hearings-for-authorities.pdf
- 10. Approval of Tuition and Fee Rates for 2018-19 https://bov.vt.edu/assets/approval-of-tuition-and-fee-rates-for-2018-19.pdf
- 11. Approval of Year-to-Date Financial Performance Report (July 1, 2017 December 31, 2017) https://bov.vt.edu/assets/approval-of-year-to-date-financial-performance-report-(july-1%2c-2017-through-december-31%2c-2017).pdf
- 12. Approval of 2018-19 Compensation for Graduate Assistants https://bov.vt.edu/assets/approval-of-2018-19-compensation-for-graduate-assistants.pdf
- 13. Approval of the Capital Project for the Student-Athlete Performance Center https://bov.vt.edu/assets/approval-of-the-capital-project-for-the-student-athlete-performance-center.pdf
- 14. Approval of the Capital Project for the ACC Network Studio https://bov.vt.edu/assets/approval-of-the-capital-project-for-the-acc-network-studio.pdf
- 15. Approval of the Capital Project for the Squires Commonwealth Ballroom Improvements https://bov.vt.edu/assets/approval-of-the-capital-project-for-the-squires-commonwealth-ballroom-improvements.pdf
- 16. Ratification of Board of Visitors Executive Committee Meeting Actions of March 13, 2018 https://bov.vt.edu/assets/ratification-of-board-of-visitors-executive-committee-meeting-actions-of-march-13%2c-2018.pdf
- 17. Approval of Emeritus Requests (15) https://bov.vt.edu/assets/approval-of-emeritus-requests-(15).pdf
- 18. Approval of Endowed Chairs, Professorships, and Fellowships (14) https://bov.vt.edu/assets/approval-of-endowed-chairs%2c-professorships%2c-and-fellowships-(14).pdf
- Approval of Faculty Research Leaves (75) https://bov.vt.edu/assets/approval-of-faculty-research-leaves-(75).pdf
- Approval of Academic Honor Conferring Upon Minnis E. Ridenour an Honorary Doctor of Letters Degree https://bov.vt.edu/assets/approval-of-academic-honor-conferring-upon-minnis-e.-ridenour-an-honorary-doctor-of-letters-degree.pdf
- 21. Ratification of the Personnel Changes Report https://bov.vt.edu/assets/ratification-of-the-personnel-changes-report.pdf

22. Naming of University Facilities (4) https://bov.vt.edu/assets/naming-of-university-facilities-(4).pdf

June 4, 2018 - Full Board

- 23. Approval of the 2018-19 Pratt Fund Budgets https://bov.vt.edu/assets/approval-of-the-2018-19-pratt-fund-budgets.pdf
- 24. Approval of the Discontinuance of the Bachelor of Science Degree in Environmental Policy and Planning
 https://bov.vt.edu/assets/approval-of-the-discontinuance-of-the-bachelor-of-science-degree-in-environmental-policy-and-planning.pdf
- 25. Approval to Adopt the Virginia Tech Carilion School of Medicine Student Honor Code, Attributes of Professionalism, and Teacher-Learner Compact https://bov.vt.edu/assets/approval-to-adopt-the-virginia-tech-carilion-school-of-medicine-student-honor-code%2c-attributes-of-professionalism%2c-and-teacher-learner-compact.pdf
- 26. Approval to Revise the Graduate Honor System Constitution https://bov.vt.edu/assets/approval-to-revise-the-graduate-honor-system-constitution.pdf
- 27. Approval to Clarify Faculty Handbook Language on Research Faculty Promotion Process https://bov.vt.edu/assets/approval-to-clarify-faculty-handbook-language-on-research-faculty-promotion-process.pdf
- 28. Approval to Clarify Faculty Handbook Language on Overload Compensation for Research Faculty Members Teaching Credit Classes

 https://bov.vt.edu/assets/approval-to-clarify-faculty-handbook-language-on-overload-compensation-for-research-faculty-members-teaching-credit-classes.pdf
- 29. Approval to Clarify Language in Faculty Handbook on Removal Processes for Research Faculty Members

 https://bov.vt.edu/assets/approval-to-clarify-language-in-faculty-handbook-on-removal-processes-for-research-faculty-members.pdf
- Approval to Revise University Policies Regarding Textbooks and Create Guidelines for Open Educational Resources to Comply with Amended Code of Virginia §23.1-1308 https://bov.vt.edu/assets/approval-to-revise-university-policies-regarding-textbooks-and-create-gu....pdf
- 31. Approval of New and Revised Language in Faculty Handbook Regarding Alumni Distinguished Professors

 https://bov.vt.edu/assets/approval-of-new-and-revised-language-in-faculty-handbook-regarding-alumni-distinguished-professors.pdf
- 32. Approval for an Ingress and Egress Easement to the New River Valley Regional Water Authority https://bov.vt.edu/assets/approval-for-an-ingress-and-egress-easement-to-the-new-river-valley-regional-water-authority.pdf
- 33. Approval of Appointment to the New River Valley Regional Water Authority https://bov.vt.edu/assets/approval-of-appointment-to-the-new-river-valley-regional-water-authority.pdf
- 34. Approval of the 2018-19 Hotel Roanoke Conference Center Commission Budget https://bov.vt.edu/assets/approval-of-the-2018-19-hotel-roanoke-conference-center-commission-budget.pdf

- 35. Approval of the 2018-19 Virginia Tech-Wake Forest University School of Biomedical Engineering and Sciences Budget https://bov.vt.edu/assets/approval-of-the-2018-19-virginia-tech-wake-forest-university-school-of-biomedical-engineering-and-sciences-budget.pdf
- 36. Approval to Reappoint University Commissioner to the Hotel Roanoke Conference Center Commission

 https://bov.vt.edu/assets/approval-to-reappoint-university-commissioner-to-the-hotel-roanoke-conference-center-commission.pdf
- 37. Approval of a New Degree, Bachelor of Arts in Science, Technology, and Society https://bov.vt.edu/assets/approval-of-a-new-degree%2c-bachelor-of-arts-in-science%2c-technology%2c-and-society.pdf
- 38. Approval of a New Degree, Bachelor of Science in Science, Technology, and Society https://bov.vt.edu/assets/approval-of-a-new-degree%2c-bachelor-of-science-in-science%2c-technology%2c-and-society.pdf
- 39. Approval of Agreement to Amend the Articles of Incorporation of the Montgomery Regional Solid Waste Authority and to Extend Term of User Agreement Between the Authority and the University https://bov.vt.edu/assets/approval-of-agreement-to-amend-the-articles-of-incorporation-of-the-montgomery-regional-solid-waste-authority-and-to-extend-term-of-user-agreement-between-the-authority-and-the-university.pdf
- Approval of Appointments to the Montgomery Regional Solid Waste Authority
 https://bov.vt.edu/assets/approval-of-appointments-to-the-montgomery-regional-solid-waste-authority.pdf
- 41. Approval on Report and Recommendation Regarding Quasi-Endowments https://bov.vt.edu/assets/approval-on-report-and-recommendation-regarding-quasi-endowments.pdf
- 42. Approval on University Lines of Credit https://bov.vt.edu/assets/approval-on-university-lines-of-credit.pdf
- 43. Approval of 2018-19 Faculty Compensation Plan https://bov.vt.edu/assets/approval-of-2018-19-faculty-compensation-plan.pdf
- 44. Approval of the 2018-19 Auxiliary Systems Budgets: Dormitory and Dining Hall System, Electric Service Utility System, University Services System, Athletic Facilities System

 https://bov.vt.edu/assets/approval-of-the-2018-19-auxiliary-systems-budgets-dormitory-and-dining-hall-system%2c-electric-service-utility-system%2c-university-services-system%2c-athletic-facilities-system.pdf
- 45. Approval of the 2018-19 University Budget: Operating and Capital https://bov.vt.edu/assets/approval-of-the-2018-19-university-budget-operating-and-capital.pdf
- 46. Approval of Year-to-Date Financial Performance Report (July 1, 2017 March 31, 2018) https://bov.vt.edu/assets/approval-of-year-to-date-financial-performance-report-(july-1%2c-2017-through-march-31%2c-2018).pdf
- 47. Approval of the Capital Project for Planning the Slusher Hall Replacement https://bov.vt.edu/assets/approval-of-the-capital-project-for-planning-the-slusher-hall-replacement.pdf

- 48. Approval of the Capital Project to Supplement the Dietrick First Floor and Plaza Renovation https://bov.vt.edu/assets/approval-of-the-capital-project-to-supplement-the-dietrick-first-floor-and-plaza-renovation.pdf
- 49. Approval of Emeritus Requests (4) https://bov.vt.edu/assets/approval-of-emeritus-requests-(4).pdf
- Approval of Endowed Chairs, Professorships, and Fellowships (1)
 https://bov.vt.edu/assets/approval-of-endowed-chairs%2c-professorships%2c-and-fellowships-(1).pdf
- 51. Approval of the Exception to the Virginia Conflict of Interests Act (2) https://bov.vt.edu/assets/approval-of-the-exception-to-the-virginia-conflict-of-interests-act-(2).pdf
- 52. Approval of Faculty Research Leave (1) https://bov.vt.edu/assets/approval-of-faculty-research-leave-(1).pdf
- 53. Ratification of the Personnel Changes Report https://bov.vt.edu/assets/ratification-of-the-personnel-changes-report2.pdf
- 54. Approval of 2018-19 Promotion, Tenure, and Continued Appointment Program (125) https://bov.vt.edu/assets/ratification-of-the-personnel-changes-report2.pdf
- Naming of University Facility (1) https://bov.vt.edu/assets/naming-of-university-facility-(1).pdf
- 56. Approval of Special Recognitions (2) https://bov.vt.edu/assets/approval-of-special-recognitions-(2).pdf

August 27, 2018 - Full Board

- 57. Ratify Changes to the 2018-2019 Faculty Handbook https://bov.vt.edu/assets/Attachment%20J Resolution%20to%20Ratify%202018%202019%20Faculty%20Handbook.%20August_2018.pdf
- 58. Ratify The Student Code of Conduct https://bov.vt.edu/assets/Attachment%20K_Resolution%20to%20Ratify%20Student%20Conduct%20Code August%202018.pdf
- 59. Approval of the Virginia Tech Extended Campus Site in Arlington https://bov.vt.edu/assets/Attachment%20L_Resolution%20for%20VT%20Extended%20Campus%20Site%20in%20Arlington_August%202018.pdf
- 60. Approval to Update Policy on Honorary Degrees
 https://bov.vt.edu/assets/Attachment%20M Resolution%20to%20Update%20Policy%20on%20H
 onorary%20Degrees August%202018.pdf
- 61. Approval to Amend Policy Regarding Paid Parental Leave
 https://bov.vt.edu/assets/Attachment%20N_Resolution%20to%20Amend%20Policy%20Regarding%20Paid%20Parental%20Leave_August%202018.pdf
- 62. Approval of O'Shaughnessy Hall Renovation 9(d) Financing https://bov.vt.edu/assets/Attachment%200_Approval%20of%20O'Shaughnessy%20Hall%20Renovation%209(d)%20Financing%20Resolution_August%202018.pdf
- 63. Approval of Virginia Tech Carilion Research Institute Biosciences Addition 9(d) Financing https://bov.vt.edu/assets/Attachment%20P Approval%20of%20VT%20Carilion%20Research%20 Institute%20BioSciences%20Addition%209(d)%20Financing%20Resolution August%202018.pdf

- 64. ACC Governing Board Certification
 https://bov.vt.edu/assets/Attachment%20Q_2018-19%20ACC%20Annual%20Governing%20Board%20Certification_August%202018.pdf
- 65. Approval to Increase Width of Virginia Electric and Power Company Easement https://bov.vt.edu/assets/Attachment%20S_Resolution%20to%20Increase%20Width%20of%20VA%20Electric%20and%20Power%20Company%20Easement_August%202018.pdf
- 66. Approval of the Demolition of University Building--Tenant House, Obenshain Building No. 0835 https://bov.vt.edu/assets/Attachment%20T_Resolution%20on%20Demolition%20of%20Building%200835 August%202018.pdf
- 67. Approval of the Year-to-Date Financial Performance Report (July 1, 2017-June 30, 2018) https://bov.vt.edu/assets/Attachment%20U_Approval%20of%20Year-to-Date%20Financial%20Performance%20Report%20(July%201,%202017%20-%20June%2030,%202018).pdf
- 68. Approval of the Planning the Athletics Weight Room Renovation

 https://bov.vt.edu/assets/Attachment%20V_Approval%20of%20Resolution%20for%20Planning%20the%20Athletics%20Weight%20Room%20Renovation August%202018.pdf
- 69. Approval of the University Succession Management Program
 https://bov.vt.edu/assets/Attachment%20W_Resolution_Succession%20Management_Wilkes_Daniel_August_2018.pdf
- 70. Approval to Revise the By-Laws of the Virginia Tech Board of Visitors https://bov.vt.edu/assets/Attachment%20X_Resolution%20BOV%20Bylaws%20Revision_August%202018.pdf
- 71. Honoring Ensign Sarah Mitchell https://bov.vt.edu/assets/Attachment%20Y_Honoring%20Ensign%20Sarah%20Mitchell.pdf
- 72. In Appreciation Honoring Michael J. Quillen https://bov.vt.edu/assets/Attachment%20Z_Michael%20Quillen_Appreciation.pdf
- 73. In Appreciation Honoring Wayne H. Robinson https://bov.vt.edu/assets/Attachment%20AA_Wayne%20Robinson_Appreciation.pdf
- 74. Approval of Emeritus Requests (10)
 https://bov.vt.edu/assets/Attachment%20DD_Resolutions%20to%20Approve%20Appointments%20to%20Emeritus%20Status%20 August%202018.pdf
- 75. Approval of Endowed Chairs, Professorships, and Fellowships (3)
 https://bov.vt.edu/assets/Attachment%20EE_Endowed%20Chairs,%20Professorships,%20or%20Fellowships%20Appointments_August%202018.pdf
- 77. Ratification of the Personnel Changes Report
 https://bov.vt.edu/assets/Attachment%20GG_%20Ratification%20of%20Personnel%20Changes%20Report_August%202018_Posting%20Version.pdf
- 78. Approval of 2018-2019 Faculty Salary Program
 https://bov.vt.edu/assets/Attachment%20HH_Approval%20of%202018-19%20Faculty%20Salary%20Program_Posting%20Version.pdf

79. Naming of University Facilities (8) https://bov.vt.edu/assets/Attachment%20II_Naming%20University%20Facilities_Aug%202018_P OSTING.pdf

October 6, 2018 - Executive Committee

(Refer to item #98, November 5, 2018)

80. Naming Beamer-Lawson Indoor Practice Facility
https://bov.vt.edu/assets/Attachment%20A_Resolution%20Beamer-Lawson%20Indoor%20Practice%20Facility Oct%206%202018.pdf

November 5, 2018 - Full Board

- 81. Approval of the Establishment of a Master of Science Degree in Nutrition and Dietetics https://bov.vt.edu/assets/Attachment%20H_Resolution%20to%20Establish%20a%20Master%20of%20Science%20Degree%20in%20Nutrition%20and%20Dietetics_Nov%202018.pdf
- 82. Approval of the Exclusion of Certain Officers/Directors
 https://bov.vt.edu/assets/Attachment%20I_Resolution%20for%20Exclusion%20of%20Certain%20Officers_Nov%202018.pdf
- 83. Approval of the Pratt Fund Program and Expenditures Report https://bov.vt.edu/assets/Attachment%20J_Resolution%20Pratt%20Fund%20Program%20and%20Expenditures%20Report_Nov%202018.pdf
- 84. Approval to Accept Real Property from Commonwealth of Virginia of Virginia Department of Transportation

 https://bov.vt.edu/assets/Attachment%20K_Resolution%20to%20Accept%20Real%20Property%20from%20Commonwealth%20of%20Virginia,%20VDOT_Nov%202018.pdf
- 85. Approval of the Demolition of University Building 0316
 https://bov.vt.edu/assets/Attachment%20L_Resolution%20Demolition%20of%20University%20Building%200316_Nov%202018.pdf
- 86. Approval of the Demolition of University Buildings Impacted by Livestock and Poultry Research Facilities-Phase I https://bov.vt.edu/assets/Attachment%20L_Resolution%20Demolition%20of%20University%20Building%200316_Nov%202018.pdf
- 87. Approval to Eliminate the Requirement for Board of Visitors Approval for Changes to the Staff Senate Constitution

 https://bov.vt.edu/assets/Attachment%20N_Resolution%20to%20Remove%20BOV%20Approval%20for%20Changes%20to%20Staff%20Senate%20Constitution_Nov%202018.pdf
- 88. Approval of the Adoption of the 2018 Campus Master Plan https://bov.vt.edu/assets/Attachment%20P_Resolution%20to%20Adopt%20the%202018%20Campus%20Master%20Plan_Nov%202018.pdf
- 89. Approval of the Revisions to the 2018-2024 Six-Year Plan https://bov.vt.edu/assets/Attachment%20Q Resolution%20Revisions%20to%20the%202018-2024%20Six-Year%20Plan Nov%202018.pdf
- 90. Approval of the Year-to-Date Financial Performance Report (July 1, 2018-September 30, 2018) https://bov.vt.edu/assets/Attachment%20R_Resolution%20Year-to-Date%20Financial%20Performance%20Report_Nov%202018.pdf

- 91. Approval of the Completion of the Capital Project for the Creativity and Innovation District Residence Hall
 - https://bov.vt.edu/assets/Attachment%20S_Resolution%20Capital%20Project%20for%20the%20Creativity%20and%20Innovation%20District%20Residence%20Hall_Nov%202018.pdf
- 92. Approval of the Capital Lease to Replace the Turbo Research Laboratory https://bov.vt.edu/assets/Attachment%20T_Resolution%20Capital%20Lease%20to%20Replace%20the%20Turbo%20Research%20Laboratory_Nov%202018.pdf
- 93. Approval of the Authorization of the Adjustment of the Financing Plan for the Student Wellness Improvements Project
 - https://bov.vt.edu/assets/Attachment%20U_Resolution%20Adjustment%20of%20Student%20Wellness%20Improvements%20Project%20Authorization_Nov%202018.pdf
- 94. Approval of the Adjustment of the Capital Lease for the Applied Projects Building https://bov.vt.edu/assets/Attachment%20V_Resolution%20Adjustment%20of%20Capital%20Lease%20for%20the%20Applied%20Projects%20Building Nov%202018.pdf
- 95. Approval of the Revisions to Policy 1035 on Student-Athlete Conduct https://bov.vt.edu/assets/Attachment%20W Resolution%20Revisions%20to%20Policy%201035%20on%20Student-Athlete%20Conduct Nov%202018.pdf
- 96. Approval of the Revisions to Policy 1036 and Change the Title to Student-Athlete Monitoring and Assistance Program (SAMAP)

 https://box.vt.edu/assets/Attachment%20X_Resolution%20Revisions%20to%20Policy%201036%

https://bov.vt.edu/assets/Attachment%20X_Resolution%20Revisions%20to%20Policy%201036% 20and%20Change%20Title%20to%20Student-Athlete%20Monitoring%20and%20Assistance%20Prog%20(SAMAP).pdf

- 97. Approval of the Establishment of University Policy #12015 on External Awards https://bov.vt.edu/assets/Attachment%20Y_Resolution%20Establishment%20of%20University%2 OPolicy%2012015%20on%20External%20Awards_Nov%202018.pdf
- 98. Approval to Ratify Action Taken by the Executive Committee at the Meeting Held on October 6, 2018
 https://bov.vt.edu/assets/Attachment%20Z_Resolution%20to%20Ratify%20Action%20Taken%20by%20Executive%20Committee%20at%20Meeting%20on%20Oct%206%202018_Nov%202018.pdf
- 99. Approval of Emeritus Requests (11) https://bov.vt.edu/assets/Attachment%20BB Resolutions%20Appointments%20to%20Emeritus% 20Status%20 Nov%202018.pdf
- 100. Approval of Endowed Chairs, Professorships, and Fellowships (5) https://bov.vt.edu/assets/Attachment%20CC_Resolutions%20Endowed%20Chairs,%20Professorships,%20or%20Fellowships%20Appointments_Nov%202018.pdf
- 101. Ratification of the Personnel Changes Report https://bov.vt.edu/assets/Attachment%20DD_Ratification%20of%20Personnel%20Changes%20Report_Nov%202018.pdf
- 102. Naming of University Facilities
 https://bov.vt.edu/assets/Attachment%20EE Resolutions%20Naming%20University%20Facilities

 Nov%202018.pdf
- 103. Approval of Policy 1002 on Adding Names to the Virginia Tech Memorial Pylons https://bov.vt.edu/assets/Attachment%20FF_Resoution%20Policy%201002%20on%20Adding%20 Names%20to%20the%20Virginia%20Tech%20Memorial%20Pylons Nov%202018.pdf

104. Approval of Revisions to University Policy #12005 on Commemorative Tributes https://bov.vt.edu/assets/Attachment%20GG_Resolution%20Revision%20to%20University%20Policy%2012005%20on%20Commemorative%20Tributes_Nov%202018.pdf

November 26, 2018 - Full Board

- 105. Endorsement of Virginia Tech's Plan to Establish an Innovation Campus in Alexandria, Virginia https://bov.vt.edu/assets/Attachment%20A_Resolution%20Endorse%20VT's%20Plan%20to%20Establish%20an%20Innovation%20Campus%20in%20Alexandria,%20VA_Nov%2026%2018.pdf
- 106. Approval of the Amendment and Modification to the Comprehensive Agreement for the VT Carilion Research Institute Biosciences Addition in Roanoke, Virginia in Accordance with the Public-Private Education Facilities and Infrastructure Act (PPEA) of 200 https://bov.vt.edu/assets/Attachment%20B_Resolution%20Comprehensive%20Agreement%20for%20VT%20Carilion%20Research%20Institute%20Biosciences%20Addition_Nov%2026%2018.pdf