## UNIVERSITY COUNCIL MEETING

October 19, 2015 3:00 p.m. 1045 Pamplin Hall AGENDA

1. Adoption of Agenda Dr. Jack Finney

2. Announcement of approval and posting of minutes of October 5, 2015

Dr. Jack Finney

These minutes have been voted on electronically and will be posted on the University web.

3. Announcement of acceptance and posting of Commission Minutes

Dr. Jack Finney

These minutes have been accepted for filing by electronic vote and will be posted on the University web. Note that the purpose of voting on Commission minutes is to accept them for filing. University Council By-laws require that policy items be brought forward in resolution form for University Council action.

Commission on Graduate Studies and Policies September 16, 2015

4. <u>New Business</u> Dr. Jack Finney

Commission on Graduate Studies and Policies

Dr. Gena Chandler-Smith

Resolution CGSP 2015-16A

& Commission on Undergraduate Studies and Policies

Resolution CUSP 2015-16D

Resolution for the Establishment of a School of Neuroscience at Virginia Tech

Presentation Dr. Lay Nam Chang

Establishment of a School of Neuroscience at Virginia Tech

**Commission on Faculty Affairs** 

Dr. Montasir Abbas

Resolution 2015-16A

Resolution for Tenure Appointments in the College of Science for Faculty in the School of

Neuroscience

5. Adjournment Dr. Jack Finney

## University Council Minutes October 19, 2015 3:00 PM 1045 Pamplin Hall

Present: Jack Finney (presiding) for Thanassis Rikakis, John Lesko for Richard Benson, Lay Nam Chang, David Moore for Dennis Dean, Karen DePauw, Guru Ghosh, Susan Sumner for Alan Grant, Dale Pike for Scott Midkiff, Kim O'Rourke, Joe Edens for Patricia Perillo, Savita Sharma for Dwight Shelton, Elizabeth Spiller, Robert Sumichrast, Andrew Tevington, Tom Tillar, Tyler Walters, Sherwood Wilson, Thomas Olson for Paul Winistorfer, John Ferris for Montasir Abbas, Jan Helge Bøhn, Gena Chandler-Smith, Saul Halfon, Edward Lener, Bonnie Alberts for Alex Parrish, Ross Verbrugge for Susan Volkmar, Randolph Wynne, Debbie Smith for Susan Anderson, Richard Ashley, Robert Bush, Corinne Noirot, Tom Fox, Tom Inzana, Paul Herr, Joan Hirt, Ana Agud, Judy Alford, Lynn Short, Sue Teel, Sally Wieringa, Brett Besag, Raifu Durodoye, Kyrille Goldbeck DeBose, Tara Shockley, Matthew Chan, Stephen Hensell, Olivia Javornik, Andrew O'Sullivan, Warren Nooger, Robbie Ashton for Tanushri Shankar, Danny Strock, Rami Dalloul, Mohammed Seyam

**Absent:** Tim Sands (with notice), Cyril Clarke (with notice), Jack Davis, Charles Phlegar, Jacquelyn Fisher, Jennifer Nardine, Joe Merola (with notice), Anita Puckett, Susanna Rinehart, Christopher Beattie, Kathrine Carter (with notice), David Dillard (with notice), Nathan King, Stacey Poertner (with notice), Tom Tucker (with notice), Marwa Abdel Latif, Alphonso Garrett, Michael Martin (with notice), Homero Murzi (with notice), Tara Reel, Dan Cook (with notice), Morgan Sykes

Guests: Rachel Gabriele, Gary Long, April Myers, Ellen Plummer, Rick Sparks, David Travis

Dr. Finney called the meeting to order at 3:00 p.m. A quorum was present.

## 1. Adoption of Agenda

A motion was made and seconded to adopt the agenda. The motion carried.

### 2. Announcement of approval and posting of minutes of October 5, 2015

Dr. Finney noted that these minutes have been voted on electronically and can be publicly accessed on the Governance Information System on the Web (http://www.governance.vt.edu).

## 3. Announcement of Approval and Posting of Commission Minutes

These minutes have been voted on electronically and will be posted on the University web (http://www.governance.vt.edu). Note that the purpose of voting on Commission minutes is to accept them for filing. University Council By-laws require that policy items be brought forward in resolution form for University Council action.

 Commission on Graduate Studies and Policies September 16, 2015

### 4. New Business

### **Commission on Graduate Studies and Policies**

Resolution CGSP 2015-16A

## & Commission on Undergraduate Studies and Policies

Resolution CUSP 2015-16D

Resolution to for the Establishment of a School of Neuroscience at Virginia Tech

Dr. Gena Chandler-Smith presented the resolution for first reading and then called on Dr. Lay Nam Chang to give a presentation (attached) on the School of Neuroscience.

## **Commission on Faculty Affairs**

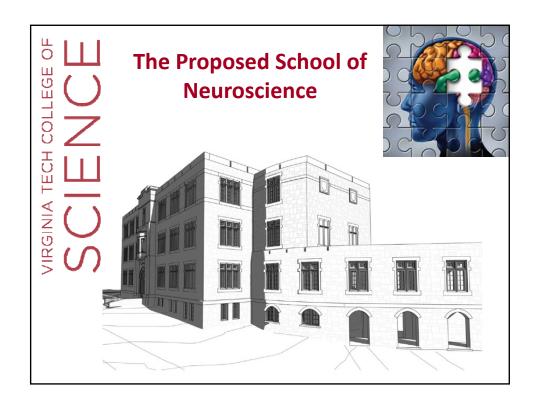
Resolution CFA 2015-16A

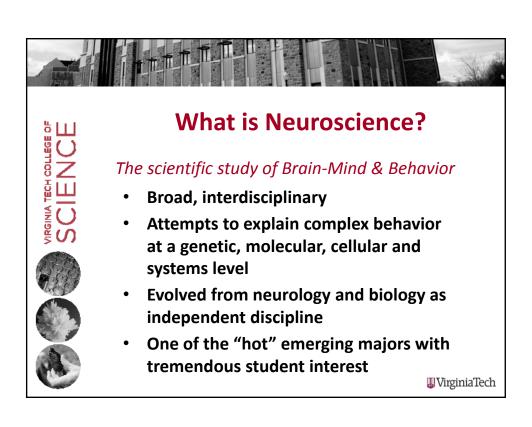
Resolution for Tenure Appointments in the College of Science for Faculty in the School of Neuroscience.

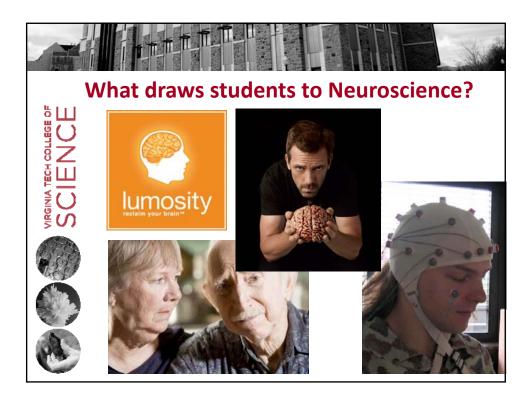
On behalf of Dr. Abbas, Dr. Jack Finney presented the resolution for first reading. New faculty are currently being recruited for the proposed School of Neuroscience. These faculty members are individuals who would typically be recruited by either a school of medicine or an existing school of neuroscience and view themselves as interdisciplinary investigators or researchers who do not identify in a traditional sense to departments of biology, psychology, economics, etc. A request was made by Dr. Harald Sontheimer to begin recruiting tenured and tenure-track faculty for the School of Neuroscience in the current year before the school is officially in existence. These positions will be held temporarily in the College of Science until such time that the School of Neuroscience is formally recognized. There will be one committee formed that will approve faculty appointments. Dr. Finney indicated that these faculty members will report to Dr. Harald Sontheimer as the proposed school director, who in turn will report to the Dean of the College of Science. The committee will mostly review annual evaluations because promotion and tenure is not typically done within the first two years of anyone's appointment. The expectation is for faculty who come in on the tenure track to establish excellence here at Virginia Tech. If a faculty member is to be hired with tenure, then the committee will handle the evaluation and recommendation for tenure, Dr. Harald Sontheimer and Dean Chang will write letters of support. The recommendation and letters will be forwarded to the Executive Vice President and Provost and the President for approval. A question was raised as to the number of committee members. The resolution indicates five but there will be an additional tenured Neuroscience committee member in the second year. A suggestion was made to amend the sixth whereas clause to state "...five or six individuals drawn from cognizant programs with the college..." The resolution will be edited for the second reading.

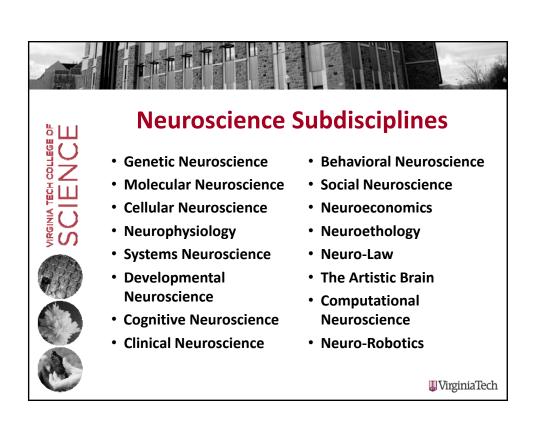
### 5. Adjournment

There being no further business, a motion was made to adjourn the meeting at 3:40 p.m.











# **Careers Paths of Neuroscience Students**

Pre-Health Major (Med/Dentistry/Vet/PA/Optometry)

- Physician, Dentist, Veterinarian, Physicians Assistant

**Pre-Lifesciences Major (Graduate studies)** 

- Graduate Faculty, Federal Research National Institutes of Health (NIH)/Centers for Disease Control and Prevention (CDC), Biotech, Big Pharma, Sales & **Product Support** 



- Law, Business, Finance, Architecture, Marketing, Art, Science Policy, Educational Leadership

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# Why a "School of Neuroscience"?

- Captures the interdisciplinary nature of Neuroscience and prevents "siloing"
- Communicates to students and faculty that Virginia Tech is making this a major emphasis area
- Positions VT-Neuroscience to be a <u>Destination Program</u>
- Support the "One Health Mission" of Virginia Tech, Virginia Tech Carilion Research Institute (VTCRI), **Veterinary Medicine and Carilion Clinic**
- Tremendous potential economic impact for Virginia **Tech and the Commonwealth**

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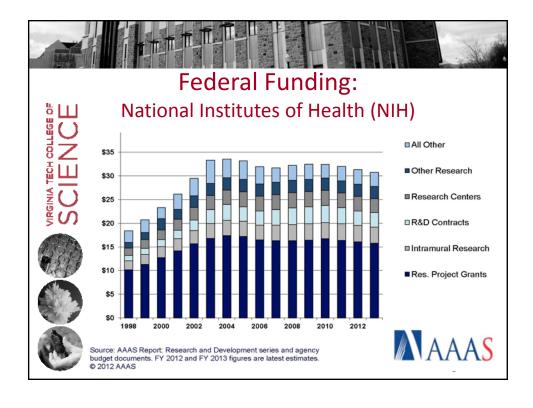


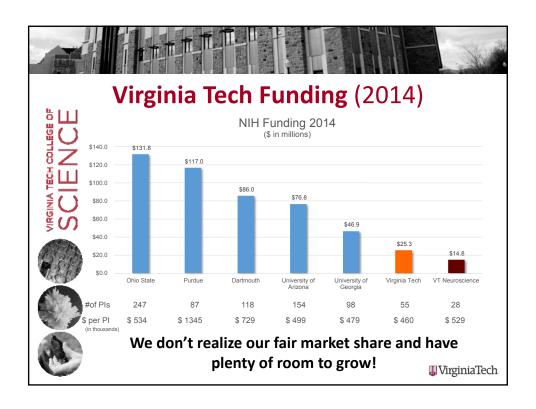
**Institutional & individual training grants** 

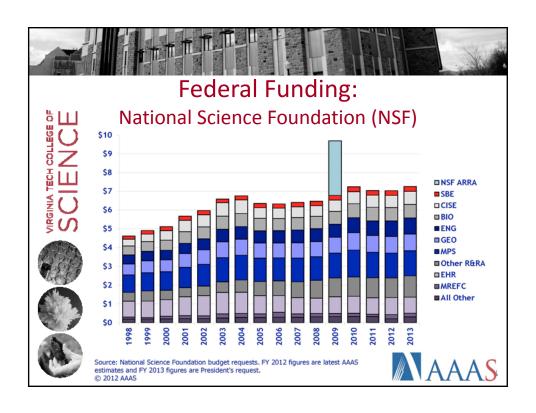
Joint large grant initiatives with engineering, computer science, Veterinary Medicine, Carilion Clinic

Access to federal funding streams where Virginia Tech is not currently receiving its market share (NINDS, NIMH, NIDA, NSF, DOD)

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# SCINIA TECH COLLEGE





# NSF - 2016 Appropriations Bill

- \$146.9M in total funding for neuroscience, an increase of \$40.5M above the FY15 level
- Virginia Tech is uniquely positioned to take advantage of funding requests for neuro-engineering projects such as brain machine interfaces, neuro-robotics and smart prostheses

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3. Contracts: \$10M

4. Licensures

5. Startup Companies







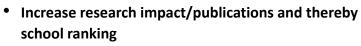
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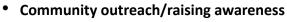
# **Indirect impact**

- Supports the growth of Virginia Tech Carilion Research Institute and Carilion Clinic
- Move towards one campus
- Expanding entrepreneurship opportunities
- Strengthens Virginia Tech's role in Virginia's Brain State Initiative



 Growth of additional graduate programs in NS related fields, neuro-robotics, neuroeconomics, neuro-medicine





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# SCIE!







# **Current status of Neuroscience**

- Degree approved for fall 2015
- Already 178 students enrolled
- Core curriculum in place
- A growing list of electives in place
- New electives rolling out in 2016
- 61 faculty members affiliated
- 15 additional faculty members to be hired over the next 3 years, with 5 new hires in 2015/2016

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# **NEW Neuroscience courses in 2016**

Some will be offered as "Special Study" in the coming semesters

NEUR 4034 Diseases of the nervous system

NEUR 3144 Mechanisms of learning and memory

**NEUR 4984 Neuroeconomics** 

**NEUR 3464 Neuroscience and society** 

NEUR 3XXX Molecular basis for addiction

**NEUR 3XXX Neuroimmunology** 

**NEUR 3XXX Neurogenetics** 

NEUR 4544 Synaptic structure and function

NEUR 4964 Neuroscience capstone experience







