University of Virginia
Board of Visitors
Academic and Student Life Committee

Provost Update
Tom Katsouleas
February 19, 2016
BoV Questions and Updates

• Faculty Hiring
  -- hunting season in full swing!

• Assignments by school (in progress)
  -- faculty RCM budget advisory committees
  -- annual faculty peer review per Pres. policy
  -- diversity plan
  -- 1st Year course availability & Curric Review (The College)

• Environment and Culture Charrette
  -- organizing committee meeting Feb 26

• Coming attraction: ‘UVA Academics’ Dashboard
Pan-U Institute Update

24 Concept Papers submitted
6 Invited for full proposals
  • Resilience
  • Water
  • Social Justice
  • The Brain
  • Infectious Disease
  • Healthspan

Proposals due March 14
Selection announced May 6
Resilience Institute at UVA

**Focus:** Address resilience of our social, environmental and infrastructure systems on local and global scales

**How:** Identify, leverage and integrate trans-disciplinary research to address resilience issues

**Why:** Innovative solutions require perspectives and strategies from multiple disciplines

**Start:** Initial focus includes water security, resilient cities, coastal resilience

**Who:** CLAS, SEAS, Arch, Darden, Batten, Law, Commerce, Curry, SOM, Nursing, Miller Center

**PI:** Karen McGlathery, Professor of Environmental Sciences, CLAS
## UVA Water Research Institute

### Why?
The challenges of satisfying competing water demands by cities, rural areas, and the environment are intensifying in our globalized world as our population and incomes grow, and our climate changes.

### What?
A leading global center for innovative research, policy formulation and education around the governance, management and conservation of the world’s limited fresh water resources.

### How?
We build a community of scholars who work at the confluence of social and environmental sciences, engineering, law and architecture, to provide:

- Cutting-edge research
- Comprehensive water curriculum (with certificate)
- Dynamic engagement with global water stakeholders in a problem-solving focus.

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**Fresh water for all in a changing, global world: challenges, strategies, solutions**

PI: Peter Debaere, Darden Business School

10-person Steering Panel & Dean support from:
Darden, Arch, SEAS, CLAS, Batten

Affiliates across UVA, and the world

**Funding:**
- The Nature Conservancy (5yrs)
- CLAS/Darden(400K/2yrs)

Adv. Board: Scholars, NGOs, Multinationals
Focus: Bring together under one umbrella a range of scholarly initiatives and partnerships collectively revolving around civil rights and social justice, broadly defined, including:

Racial and class inequalities in:
- Education
- Economics
- The Environment
- Health and Well-being
- Criminal Justice

“The humanity of all . . . Is diminished when any group is denied rights granted to others.” Julian Bond

PI: Deborah E. McDowell,
Carter G. Woodson Institute

Participants: Curry, Law, CLAS, SOM, ARCH, Darden
Focus: Neurological diseases have no cures, and are increasing. UVA BRAIN will create shared infrastructure and connectivity between discovery, clinical, translational, and data scientists to address this biomedical challenge.

- How does the immune system influence the brain to modify learning, injury response, and neurological disease?
- How do connections in the brain drive behavior and disease?
- How does injury result in long-term neurological effects?
- How can human subject data direct discoveries of disease process and therapies?

Discovery of physical link between the brain (green neurons) and the immune system (purple lymphatics) *Nature*, 2015

PI: Margaret Shupnik, Professor of Medicine, School of Medicine

Participants: SOM, Curry, SEAS, CLAS, Data Sciences Institute
Global Infectious Disease Institute

Goals of the Institute:

• Stimulate life-saving research, treatment, and distribution of care
• Catalyze large, multi-PI, cross-Grounds research opportunities and increase external funding to UVa
• Train next generation of scientists, medical personnel, entrepreneurs, educators, advocates, policy makers

UVa is the right place for this Institute:

• Faculty are internationally renowned
• 30+ years of NIH training grants in Global Infectious Diseases
• Strong existing collaborations with researchers worldwide to study HIV, Ebola, antibiotic-resistant superbugs, influenza, diarrheal diseases, & more

The Institute will build on UVa’s strengths to combat the most vexing global infectious threats of the 21st century.

PIs: Alison Criss and Lukas Tamm, SOM and Linda Columbus, A&S

Participants: SOM, A&S, SEAS, CGH
Healthspan Institute

**Focus:** Comprehensive, interdisciplinary research, education and service to maximize human healthspan across the whole lifespan

- Innovative, holistic approaches
- Personalized for age, gender and genetic background, etc.
- Prevent disease and modify the course of disease when present
- Tremendous opportunity to educate future leaders with broad impact on public health, economy, environment and society

- We found that exercise during pregnancy mitigates the negative epigenetic impact on master gene of mitochondria and metabolism
- Prevents onset of diabetes in the offspring
- Demonstrates the importance of healthspan care across the whole lifespan

**PI:** Zhen Yan, Associate Professor of Cardiovascular Medicine, School of Medicine

**Participants:** SOM, Batten, Darden, Law, SEAS, CLAS, Curry, Nursing, ARCH,