

NC STATE

COLLEGE OF **SCIENCES**
BIOLOGICAL SCIENCES

Biological Sciences

March 13th, 2017 AY 16-17 #158



On February 27th, another year of achievements was celebrated at NCSU's annual [Sisterhood Dinner](#), recognizing the efforts and accomplishments of women at NCSU, as well as university member nominees and winners of the [2017 Equity for Women award](#). BioSci was in attendance for this noteworthy night, represented by (from left to right) Beth Hawkins, Jenny Campbell, Lisa Paciulli, Miles Engell, Dana Thomas and Patty Aune.

This year's winners of NCSU's Equity for Women award were:
Faculty: Kate Annett-Hitchcock, Department of Textile and Apparel, Technology and Management
Staff: April Shaeffer, Animal Science
Student: Veronica Catete, Graduate, Computer Science

Nominees for this award are selected for their efforts in one or more of the following areas:

- Leadership: Taking action to promote gender equity on and beyond campus through leadership roles
- Service: Supporting equity for women through job-related or voluntary roles
- Scholarship: Contributing new knowledge and informing policy and practice related to women's well-being and equality

We look forward to seeing what successes next year brings!

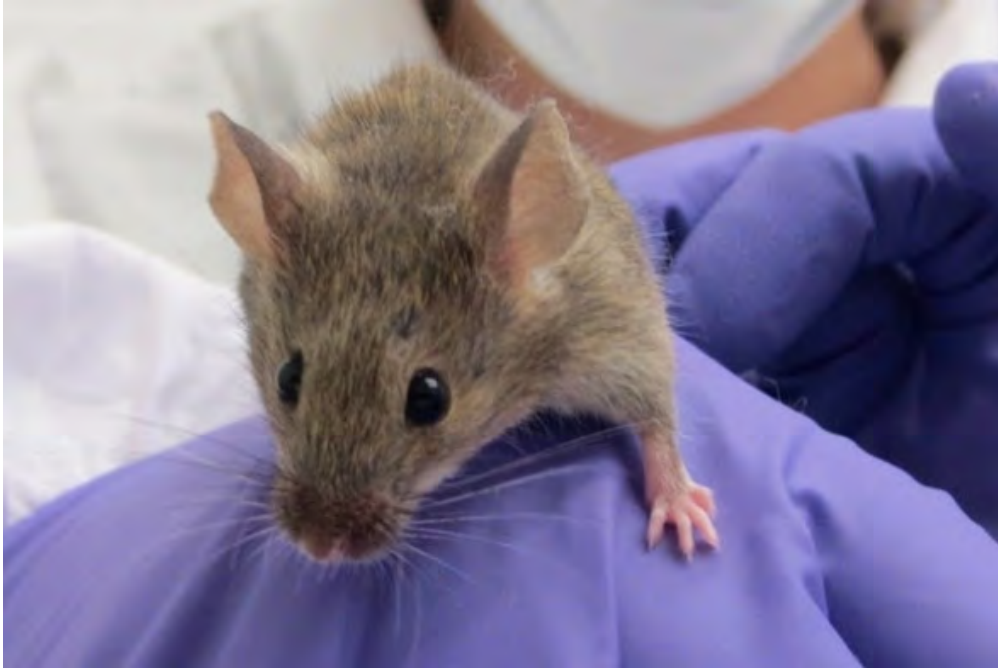
Congratulations to Megan Serr, PhD Zoology Graduate Student, Advisor, Dr. John Godwin, who just published an article in Scientific American on developing and assessing the potential benefits and risks of use of genetically engineered mice to rid

islands of invasive wild mice.

Mice as Conservationists?

A naturally occurring gene *in* house mice may help eliminate their invasive cousins that live *on* islands

<https://blogs.scientificamerican.com/guest-blog/mice-as-conservationists/>



The NC State University Center for Human Health and the Environment (CHHE) is announcing its request for applications (RFA) for pilot project proposals for Spring 2017. Applications will be due on April 3, 2017.

The NC State University Center for Human Health and the Environment (CHHE) is announcing a new request for applications (RFA) for pilot project proposals for Spring 2017. The overarching objective of the Center for Human Health and the Environment's Pilot Project Program (PPP) is to expand environmental health science research at NC State, ECU and NCCU. Pilot project funding to Center members and other NC State, ECU and NCCU investigators is awarded to collect preliminary data that will support applications for external funding from the National Institute of Environmental Health Sciences (NIEHS), other NIH Institutes and Federal agencies. Consequently, the major emphasis of the PPP is on research into the effects, potential consequences and prevention of environmental exposures on human health. The PPP will support high quality basic, applied, clinical and public health research. The PPP will provide funding for individual, collaborative and multidisciplinary research aimed at understanding the adverse impacts of environmental factors on human health and disease. Multidisciplinary collaborations and use of CHHE's core facilities are

strongly encouraged but not required. CHHE anticipates funding up to 5-6 awards for this round. Abstract pre-submission (jcbonner@ncsu.edu) is encouraged but not required to determine if proposal topics are consistent with the mission of the CHHE. Individual awards will range up to \$25,000 direct costs for one year. Applications will be due on April 3, 2017. Application and additional information can be found at chhe.research.ncsu.edu/pilot-projects and questions can be directed to Jamie Bonner (jcbonner@ncsu.edu), Director of CHHE PPP.

Save-the-Date

Building the Global Change Community

A Seminar Series Convening Five NCSU Colleges

FEB 9 DR. ERIN SEEKAMP (CNR)
Enhancing Transparency of Climate Adaptation
Planning for Cultural Resource Management
3:30pm | 101 David Clark Labs

FEB 23 DR. ELSA YOUNGSTEADT (CALS)
Climate Change and Plant-Pollinator Interactions
3:30pm | 101 David Clark Labs

MAR 30 DR. ASTRID SCHNETZER (MEAS)
Harmful Algal Blooms and Climate Change
3:30pm | 101 David Clark Labs

APR 13 DR. SANKAR ARUMUGAM (COE)
Utilizing Climate Information for Improving
Water, Energy and Ecological Management
3:30pm | 101 David Clark Labs



Hosted by the SE Climate Science Center and the Global Change Fellows

3rd Annual Spring Conference

Plan to Participate!

- Network with local neuroscientists
- Present a poster
- Attend "ask a grad student" panel
- Attendance is free!!!**

Featured Speakers-



Dr. David Anderson
California Institute of Technology



Dr. Serena Dudek
National Institute of Environmental Health Sciences



Dr. Leslie Sombers
North Carolina State University



Dr. Michael Nader
Wake Forest University



April 13, 2017

10:00 am - 5:30 pm

Embassy Suites

201 Harrison Oaks Blvd, Cary, NC

20TH ANNUAL NIEHS BIOMEDICAL CAREER SYMPOSIUM



Friday, April 21, 2017

7:45 a.m. – 5:00 p.m.

EPA Campus, Building C

109 TW Alexander Drive • Research Triangle Park, N.C.

Keynote Address

How Economics Shapes the Early Careers of Scientists

Paula Stephan, Ph.D.



**Professor of Economics,
Georgia State University,
and Research Associate,
National Bureau of
Economic Research**

*Author of the book
"How Economics Shapes Science"*

*Selected as Science Careers first
Person of the Year in 2012 for her
contributions to the welfare
of early-career scientists*

Career-Specific Discussions

- Entrepreneurship and Biotech Startups
- Academia
- Science Outreach
- Scientific Review Officer/ Grants Management
- Non-Profit Organizations
- Consulting
- Medical Writing and Scientific Writing
- Contract Organizations (CDMO/CRO)
- How to Be a Competitive Applicant: Ask Human Resources

Career Development Workshops

- How to Avoid Self-Sabotage and Win at Salary Negotiations
- Articulating Your Accomplishments: Tips for Creating a High-Impact Job Application
- Starting Your Own Lab
- Overview of the Industry Career Landscape
- Interviewing with Confidence
- Networking: A Tool for Exploring Careers and Building Professional Relationships
- Foundations of Good Grantsmanship
- The Government Job Application Process: Navigating USAJOBS.gov
- A Practical Approach to Managing Conflict and Preparing for Difficult Conversations
- Building an Online Presence Using Free Internet Tools

Networking Opportunities

- Informal Networking Lunch
- Afternoon Reception
- Exhibitor Browsing – Local Organizations Focused on Biomedical Research
- Meet With HR Company Representatives

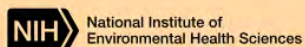
One-on-One CV/Resume Consultations With Professionals From Academia, Industry, and Government

For more information, visit

<https://tools.niehs.nih.gov/careerfair>

Email: NIEHSCareerSymposium@niehs.nih.gov

Sponsored by the NIEHS Trainees Assembly



TOXICOLOGY PROGRAM

SPRING 2017 SEMINAR SCHEDULE

Tuesdays @ 4:00 PM Toxicology Building Room 2104, Centennial Campus

*Co-sponsored by Center for Human Health and the Environment

| DATE | SPEAKER <i>Affiliation</i> | TITLE |
|------|--|--|
| 1/10 | Jason Richardson <i>Northeast Ohio Medical University</i> | Gene-environment interactions in neurological disorders |
| 1/17 | Russell Thomas <i>EPA</i> | Too many chemicals, so little time |
| 1/24 | Darryl Zeldin* <i>NIEHS</i> | Thromboxane (TXA2) Attenuates Th9 Cell Differentiation and Function During Allergic Lung Inflammation |
| 1/31 | Christopher Sistrunk <i>Alumni Speaker City of Hope</i> | Hiding in Plain Sight: How Morphologically Normal Breast Tissues Display Biochemically Cancerous Phenotypes in High Risk Women |
| 2/7 | Hazel Nichols <i>UNC Gillings School of Global Public Health</i> | Cancer and pregnancy |
| 2/14 | John Brock <i>UNC Asheville</i> | Human and Wildlife Exposure to Phthalates: Discovery and Future Directions |
| 2/21 | Katherine Franz <i>Duke University</i> | Designing molecules to mine for copper along the host-pathogen interface |
| 2/28 | Mark Zylka <i>UNC School of Medicine</i> | Genetic and environmental risks for autism |
| 3/7 | No Seminar | SPRING BREAK |
| 3/14 | No Seminar | Society of Toxicology Meeting |
| 3/21 | Humphrey Hung-Chang Yao* <i>NIEHS</i> | Sex, Arsenic, and Hedgehog: Mouse Models of Fetal Origins of Adult Diseases |
| 3/28 | Serena Dudek <i>NIEHS</i> | New insights into regulating synaptic plasticity from an unexpected place: Hippocampal Area CA2 |
| 4/4 | TBD | |
| 4/11 | Antony Williams <i>EPA</i> | The EPA CompTox Chemistry Dashboard – A Data Integration Hub for Environmental Chemists and Toxicologists |
| 4/18 | Allison Camp <i>NCSU, PhD Student Advisor: Gerald LeBlanc</i> & Stephanie Eytcheson <i>NCSU, PhD Student Advisor: Gerald LeBlanc</i> | <i>TBD</i> <i>Hemoglobin Levels Modulate Toxicity to Nitrate</i> |
| 4/25 | Rick Woychik* <i>NIEHS</i> | Research Strategies for Exploring the Landscape of Environmental Health |

Time: 1:30 pm

Location: Stephens Room, 3503 Thomas Hall



January 23
Dr. Steven Benner,
Foundation for Applied Molecular Evolution
(Hosted by Dr. Jeff Thorne)



February 6
Dr. Karl Broman
University of Wisconsin
(Hosted by the Genetics Graduate Students)



February 20
Dr. Chao-Qiang Lai
Alumnus Seminar
USDA, Tufts University
(Hosted by Dr. Trudy Mackay)



March 13
Dr. Susan McCouch
Cornell University
(Hosted by the Genetics Graduate Students)



March 27
Dr. Kirk Wilhelmsen
UNC-Chapel Hill
(Hosted by Dr. Robert Anholt)



April 10
Dr. Charles Aquadro
Cornell University
(Hosted by the Genetics Graduate Students)



April 24
Dr. Craig Montell
University of California at Santa Barbara
(Hosted by Dr. Robert Anholt)



January 30
Dr. William Jeffery
University of Maryland
(Hosted by the Genetics Graduate Students)



February 13
Dr. Brian Wiegmann
Charles Darwin Lecture
NC State University
(Hosted by the Dr. Trudy Mackay)



February 27
Dr. Eric Gaucher
Georgia Tech
(Hosted by Dr. Jeff Thorne)



March 20
Dr. Logan Everett
NC State University
(Hosted by Dr. Trudy Mackay)



April 3
Dr. Mariana Wolfner
Cornell University
(Hosted by Dr. Robert Anholt)



April 17
Dr. Philip Benfey
Duke University
(Hosted by Dr. José Alonso)

W. M. Keck Center for Behavioral Biology

Distinguished Speaker Series

Spring 2017

January 26 John McGann

*Department of Psychology
Rutgers University*

***Beyond Bottom-Up Sensory Processing: Learning and Expectation
Can Shape Sensory Input to the Mouse Brain***

3:30 pm - 101DCL



February 9 Karen Carleton

*Department of Biology
University of Maryland, College Park*

QTL and Gene Regulatory Networks for Seeing Through the Eyes of a Fish

3:30 pm – 3503 Thomas Hall



March 9 Marlene Zuk

*College of Biological Sciences
University of Minnesota*

Rapid Evolution in Silence: Adaptive Signal Loss in the Pacific Field Cricket

3:30 pm – 3503 Thomas Hall



March 16 Jon Kaas

*Vanderbilt Brain Institute
Vanderbilt University*

The Evolution of the Human Brain

3:30 pm – 3503 Thomas Hall

7:30 pm – Daily Planet Café
NC Museum of Natural Sciences



April 24 Craig Montell

*Molecular, Cellular and Developmental Biology
University of California at Santa Barbara*

Decoding the Receptors Controlling Animal Behavior in Drosophila

1:30 pm – 3503 Thomas Hall



Spring 2017 Neuro Events

Neurogroup meets 3rd Thursday Stephens room 3rd floor Thomas Hall 11:30-1:00

Neurojournal club meets once a month in room 139 of David Clark Labs 11:00-12:00

January 19 Neuro-group

March 24 Neurojournal

February 3 Neurojournal

April 13 Triangle Society for Neuroscience
<http://trianglesfn.org/springmeeting/>

February 16 Neuro-group

April 20 Neuro-group

March 3 Neurojournal

April 20 Neuro-group

Brain Awareness Day

March 16

April 21 Neurojournal

Neuro-group 11:30

Dr. Alex Marshall High Point University

Jon Kaas seminar 3:30

May 18 Neuro-group

NCMNS event 6:30

**Duke Women in Science & Engineering &
Graduate Women in Science
Research Triangle Chapter**

A Celebration of Women in Science

Saturday, May 20, 2017 at Duke University

Keynote Address

Dr. Patricia Jensen

National Institute of
Environmental Health Sciences

“Diverse Origins in Science”



- Research symposium
- Short scientific talks
- Poster session
- Networking reception with refreshments
- Free registration

Time and exact location to be determined, registration will open March 2017
sites.duke.edu/wise/ gwisresearchtriangle.org/women-in-science-symposium/



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 NCSU Biological Sciences

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