

# Biological Sciences

March 20th, 2017 AY 16-17 #159

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## Announcements

Dr. Ann Ross will be serving as Associate Editor for Anthropology for the Journal of Forensic Sciences.

Associate Editors are a new addition to the journal and are expected to provide a solid foundation of forensic sciences throughout the worldwide community. Congratulations Ann!

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Below, please find a photo of Recirculating Farms Club (RFC) President, Maddie Ciszewski, Lisa Paciulli, Faculty Advisor, and Vice President, Stephen Cox, stocking the aquaponics system with fish in The Oval. The photo was taken by Lindsay Hester, Campus Enterprises. The fish were generously provided by Harry Daniels and Allison Culbreth of the FishBarn, Lake Wheeler Labs. They also planted spinach and kale, courtesy of Chris Dunham, Nutrition and Sustainability Specialist, University Dining.

**Thank you for supporting the RFC and the aquaponics system!**



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## Save-the-Date

### **From Holly Menninger:**

Once again the College of Sciences is participating in a signature event of the NC Science Festival: the [Triangle Sci Tech Expo](#), Saturday April 8, 9-4p at the NC Museum of Natural Sciences.

We're looking for volunteers (or groups of volunteers, rally your students, labmates and friends) to participate by coordinating hands-on demos and activities to do with the public -- we'll have a number of 6 foot tables available in a large tent on Bicentennial Plaza (outside main entrance of Museum of Natural Sciences). We experienced heavy visitor traffic last year!

2 shifts are available: 8:30-12:30 and 12:30-4:30, both include a half-hour for set-up/cleanup -- full-day participation is appreciated!

This is a great opportunity to engage diverse public audiences and build some experience related to broader impacts.

SIGN UP TODAY! <https://goo.gl/forms/uYrEf2NZX62xaLEx2>

Interested but not quite sure how to turn that idea into something real? Feel free to reach out to me for a consultation and assistance with demo development!

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# 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

# 3<sup>rd</sup> 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

The Leadership in Public Science Cluster has partnered with the [Story Collider](#), an organization dedicated to bringing true, personal stories about science to life, for a series of events April 18-19, 2017.

For most audiences, stories are more engaging, understandable, convincing, and memorable than evidence-focused messages--that's what the research tells us. Many scientists are unfamiliar with this scholarship, however, and may resist storytelling when communicating science for public audiences.

We want to change that. So we're inviting you to participate in two upcoming, on-campus events on April 19:

## [Creating Meaning from Information in Science and Storytelling](#)

**Wednesday, April 19, 216 Poe Hall, 12:00p**

“Storytelling” is a buzzword in everything from business leadership and online marketing to science communication. What evidence is there for the value of this approach? What does it even mean? Story Collider’s executive director Liz Neeley will explore research on storytelling and narrative persuasion, highlight the value of personal stories in science, and consider how something like "narrative competency" might be conceptualized, taught, and deployed in your own science communication efforts.

## [Storytelling for Science Communication Workshop](#)

**Wednesday, April 19, DH Hill Library Faculty Commons, 2:00p - 6:00p**

This 4-hour workshop focuses on how to develop and tell personal stories about science with intellectual honesty and ethical consideration. You’ll learn about research on storytelling and narrative persuasion as well as the value of personal stories in science.

In hands-on work, you’ll practice finding, developing, and performing your own deeply human stories of science. [Apply today](#) (it’s a short form!) -- Class is limited to 20 participants. Participants are strongly encouraged to attend keynote immediately beforehand. Application deadline: March 22.

We also invite you to Story Collider’s live, off-campus show at the Red Room in Kinston on Tuesday, April 18, 7p, featuring a line-up of NC State researchers and community members. Free, but registration required -- see:

<http://www.storycollider.org/shows/2017/4/18/kinston-nc>

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# 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

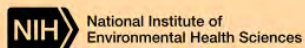
### One-on-One CV/Resume Consultations With Professionals From Academia, Industry, and Government

#### For more information, visit

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

Email: [NIEHSCareerSymposium@niehs.nih.gov](mailto: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

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

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**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/](http://sites.duke.edu/wise/)      [gwisresearchtriangle.org/women-in-science-symposium/](http://gwisresearchtriangle.org/women-in-science-symposium/)



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