

COLLEGE OF **SCIENCES**
BIOLOGICAL SCIENCES

Biological Sciences

March 27th, 2017 AY 16-17 #161

Announcements

Drs. Ann Ross and Chelsey Juarez (Assistant Professor, Sociology and Anthropology) worked alongside the City-County Bureau of Identification and the Wake County Sheriff's office to unearth the clandestine grave of Carolyn Fox. She had been missing since July 2016. Thank you Ann and Chelsey for using your knowledge and skills to assist law enforcement in our community. Read more here:

<https://www.google.com/amp/wncn.com/2017/03/23/body-found-buried-home-of-missing-wake-county-woman/amp/>

Dr. Rob Smart is representing the Department of Biological Sciences and the CHHE as a recipient of the Research Leadership Academy and 2016-2017 Alumni Association Outstanding Research Award. He is among 28 exceptional faculty nominated for this great award, with the committee tasked with choosing only 12 awardees.

He will be recognized at the 2017 Faculty Awards and Mathews Medal Ceremony to be held on April 26 at the Park Alumni Center, and receive a monetary award of \$4,000. The ceremony will be hosted by the NC State Alumni Association and an invitation will be provided to you.

Congratulations Rob!

Congratulations to Eugene Cheung (Advisor, Russell Borski) for being recognized for Excellence in Laboratory Teaching! This is an important honor in teaching achievement.

From Dr. Hal Heatwole:

I have a number of runs of scientific journals, many going back to 1956 and quite a few bound in hardback in annual volumes. I have retired and am downsizing, and would be willing to donate them to a university, or other appropriate nonprofit organization, or even to an individual scientist that wants them for his/her personal use. I subscribed over my professional life to 26 journals for different periods of time. Those that I have the longest runs are: Ecology, Ecological Monographs, Comparative Biochemistry and Physiology, American Naturalist, Evolution, Animal Behaviour, Physiological Zoology, The American Naturalist, and American Zoologist (forerunner of Integrative and Comparative Biologist). Others have already been donated, and as I am still active in research, I will be keeping all of the herpetology journals, as well as Biotropica and Integrative and Comparative Biology---Sorry.

I also have short runs of various other journals; if you have interest in a particular one, ask whether I have it.

I will be selling, or donating, many of the 5,500 books in my personal library and will be happy to entertain enquires. Please email me at halfh@ncsu.edu

Save-the-Date

2017 B.B. BRANDT LECTURE

From Mouse to Molecule



the genetic basis of evolutionary change

Dr. Hopi Hoekstra

Alexander Agassiz Professor of Zoology, Harvard University
Curator of Mammals, Museum of Comparative Zoology

April 6 | 3:30 PM | David Clark Labs 101

Sponsored by: B.B. Brandt Lecture | Applied Ecology | Biological Sciences

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!



**Center for
Human
Health and the
Environment**



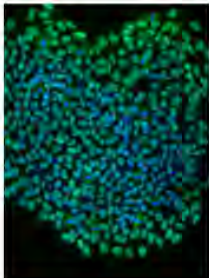
CHHE and CMI joint seminar

**“Genome editing and stem cell
engineering for disease modeling”**

Adriana Beltran, Ph.D.
Director, Human Pluripotent Stem Cell Core
UNC Chapel Hill School of Medicine

You are invited to learn about the services offered
by the core to help your research!
All faculty, staff, postdocs and students are welcome

Thursday, April 13, 3:30pm-4:30pm
Toxicology Building, Auditorium Room 2104
Centennial Campus, NC State University



The Core aims to facilitate studies in human stem cell biology by providing relevant expertise and services, including:

- Generation of iPS cells
- Differentiation of ES and iPS cells
- Genome editing with TALEN/CRISPR
- Gene regulation and chromatin remodeling with ZFP, TALEN and CRISPR technologies

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

The heat, air conditioning and secondary power will be disconnected at Thomas Hall all of 1st and 2nd floors, part of 3rd and 4th floors on 4/10/17 beginning at 7:00 AM and ending on 4/14/17 at 4:00 PM. The disconnect is necessary in order to replace the VFD for the AHU in room 1573. We are also replacing the MCC panel in this room. The power will only be off in the mechanical room 1573 to the air handlers during this time.

Triangle Chapter
Society for Neuroscience

Register Now-
www.TriangleSfN.org

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

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>

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

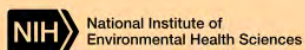
One-on-One CV/Resume Consultations With Professionals From Academia, Industry, and Government

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

Free Research Symposium
Saturday, May 20, 2017
Love Auditorium at Duke University

- 1:00 PM - Welcome
- 1:15 PM - Keynote Address
Dr. Patricia Jensen
National Institute of Environmental
Health Sciences
“Diverse Origins in Science”
- 2:30 PM - Short Talks
- 3:30 - 5:00 PM - Poster Session,
Reception With Refreshments



- ★ Register for a short talk by **April 25, 2017**
Talks selected by GWIS and Duke WISE officers - notification May 1, 2017
- ★ General registration open until **May 1, 2017**
- ★ Register: gwisresearchtriangle.org/women-in-science-symposium/



More Information
sites.duke.edu/wise/
gwisresearchtriangle.org

Follow us on Twitter and Facebook!

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