

COLLEGE OF **SCIENCES**  
BIOLOGICAL SCIENCES

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# Biological Sciences

October 31, 2016 AY 16-17 #140

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## *Department Announcements:*

**Dr. David Buchwalter** provided expert commentary in a WRAL article on the widespread presence of hexavalent chromium in North Carolina ground water (<http://www.wral.com/study-nc-s-problem-with-cancer-causing-chemical-goes-beyond-coal-ash/16156286/>). Previous detection of the carcinogen in well water was viewed as evidence of ground water contamination by coal ash. The recent study by Duke investigators revealed that hexavalent chromium is widespread in ground water in the Piedmont region and is likely derived from rock formations within this region. David provided a toxicologist's view of the presence of hexavalent chromium in drinking water and safety concerns for those exposed to the metal in their drinking water.

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**The combined AEC and BSC Halloween potluck was a great success! As you can see in the pictures below a good time was had by all!**

























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November 4, 2016 is the upcoming deadline for the food drive for our campus Food Pantry and the Food Bank of Eastern North Carolina.

The campus food pantry is located on the 1st floor of Broughton Hall and donations will be taken during their fall hours at any time.

Monday 2:00 p.m. - 6:00 p.m.

Tuesday 4:00 p.m. - 6:00 p.m.

Wednesday 2:00 p.m. - 6:00 p.m.

Thursday 4:00 p.m. - 6:00 p.m.

Friday 12:00 p.m. - 4:00 p.m.



**NC STATE**  
Staff Senate

# FOOD DRIVE

## BOUNTIFUL HARVEST

**COLLECTING  
CANNED GOODS  
AT THESE  
LOCATIONS  
OCT 5 - NOV 4**

1575 Varsity Dr. - Module 5  
1911 Bldg. - Rm. 334  
520 Brickhaven - Rm. 101

Admin. I - Lobby Entrance  
Admin. II - Budget office  
Admin. II - 2nd floor hallway  
Admin. III - 3rd floor

Biltmore Hall - Main lobby

Caldwell Hall - Lounge  
Caldwell Hall - Kitchenette  
COT - 2437, 3250, 3421

DELTA - VII  
DH Hill - 2nd floor

EB I, II & III - Lobby

Holladay Hall - Kitchen

Jordan addition - Lobby 1214

Joyner Visitor Center #106

Joyner Visitor Center 231-233

Kilgore Hall - outside Rm. 162

McKimmon Center

Nelson Hall - 1305, 2150, 4100

Page Hall - Rm. 230

Poe Hall - outside #208 & #400

Postlen Innov. - male & back entrances

Patten Hall - Kitchen

SAS Hall - 5th floor commons

Sullivan Shops

University Commons - 2nd & 3rd floor

Venture II - Suite 500 lobby

Weisiger Brown - Lobby

Withers Hall - Rm. 331

Yarborough Steam Plant - 1st floor



**[go.ncsu.edu/food-drive](https://go.ncsu.edu/food-drive)**

<https://staffsenate.ncsu.edu/files/2016/10/Food-drive-2016.jpg>

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## Call for Authors - Book Chapter - Anatomy and Physiology

Top Hat Education & Publishing – All locations

Posted: 10/21/2016

Top Hat is an educational technology and publishing company used in +700 universities across North America.

Job Description: Top Hat is currently recruiting innovative, contributing authors in the field of Anatomy & Physiology to write an original chapter for an introductory level, interactive-textbook.

Remuneration: Competitive + Royalties



The qualified candidate should have:

1. A Ph. D in Medicine, Anatomy/Physiology, or a related field, from a recognized institution
2. A current position as a professor/lecturer in Anatomy/Physiology or a related field at a leading university
3. Strong passion for education and technology-enhanced learning
4. Proven and significant writing experience
5. Ability to commit 8-12 hours/week, remotely
6. Experience in applying active learning pedagogy in teaching (presenting pedagogical findings in peer-reviewed journals is a plus)
7. The ability to work well with a team
8. Experience as an engaging instructor for high-enrollment classes, i.e. greater than 75 students
9. Recognition as a person of influence in the subject matter
10. Experience creating educational videos or other learning tools is a strong asset

Additional Information: All graphics and editorial services will be provided.

All qualified candidates are encouraged to contact [Lucas@TopHat.com](mailto:Lucas@TopHat.com) stating their interest.

Top Hat is an equal opportunity employer.

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***\*\*Save-the-Date\*\****

## **The Biological Sciences 2016 Fall Seminar Series**

Stephens Room, 3503 Thomas Hall

**November 3rd, 2:15-3:30 pm: Scott Belcher, NCSU**

**November 17th, 1:30-2:30 pm: Gary Ostrander, FSU**  
**Reception after**

**December 1st, 3:30-5:00 pm: Patricia Jensen, NIH**

**December 15th, 3:30-5:00 pm: Charlotte Boettiger, UNC**

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**From Alice Lee:**

In support of [CDC's Get Smart about Antibiotics Week](#), students from Alice Lee's MB360:

Scientific Inquiry in Microbiology, [Small World Initiative course](#), will be presenting their antibiotic research posters at the North Carolina Museum of Natural Sciences. If you have the chance, stop by to learn about what students are doing to address this global health issue of antibiotic resistance.

**Date:** Nov. 5th, Saturday

**Poster presentation:** 12-2pm.

**Location:** Lobby of the [Nature Resource Center](#) (near the big globe) at the North Carolina Museum of Natural Sciences

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**There will be a Heating, Steam, Air Conditioning and Hot Water Disconnect affecting several buildings on Main Campus. The disconnect will start on 11/23/16 at 12:00 PM and end on 11/27/16 at 5:00 PM. The outage is necessary for installation of a new PRV station in the steam tunnel.**

The buildings affected are as follows:

Biological Resources Facility  
Bostian  
Dabney  
David Clark (and addition)  
DH Hill (entire building)  
Gardner  
Kilgore  
Mary Anne Fox  
Nelson  
Phytotron  
Scott  
Thomas  
Williams (and addition)

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**There will be a Heating, Steam, Air Conditioning (reheat) and Hot Water Disconnect affecting several buildings on Main Campus. The disconnect will start on 12/2/16 at 5:00 PM and end on 12/4/16 at 5:00 PM. The outage is necessary for installation of a new PRV station in the steam tunnel.**

The buildings affected are as follows:

Biological Resources Facility

Bostian

Dabney

David Clark (and Addition)

DH Hill (entire building)

Gardner

Kilgore

Mary Anne Fox

Nelson

Phytotron

Scott

Thomas

Williams (and Addition)

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**TOXICOLOGY PROGRAM  
Fall 2016 SEMINAR SCHEDULE**

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

**\*Co-sponsored by Toxicology Graduate Student Association**

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

DATE	SPEAKER <i>Affiliation</i>	TITLE
8/23	<b>Jennifer Martinez*</b> <i>NIEHS</i>	"Non-canonical autophagy as a critical regulator of inflammation and autoimmunity"
8/30	<b>Susan Sumner**</b> <i>RTI</i>	"Metabolomics in maternal and child health"
9/6	<b>Rodolphe Barrangou</b> <i>NCSU</i>	"The CRISPR craze: from adaptive immunity to genome editing"
9/13	<b>Rodney Dietert**</b> <i>Cornell University</i>	"Health Risks for the Human Superorganism"
9/20	<b>James Samet</b> <i>EPA/UNC-CH</i>	"Redox Toxicology: Linking Environmental Oxidative Stress to Signaling Dysregulation"
9/27	<b>Jodie Fleming**</b> <i>NCCU</i>	"The role of the Lipolysis Stimulated Lipoprotein Receptor in the promotion of breast cancer"
10/4	<b>Carmen Williams*</b> <i>NIEHS</i>	"Epigenetic reprogramming of female reproductive tract function by developmental exposure to estrogenic chemicals"
10/11	<b>TBA</b>	
10/18	<b>Ernest Hodgson*</b> <i>NCSU</i>	"The Generalist in Toxicology: at Work and at Play"
10/25	<b>Marc Weisskopf**</b> <i>Harvard School of Public Health</i>	"ALS Epidemiology in large populations"
11/1	<b>Chad Blystone*</b> <i>Alumni Speaker NTP</i>	"Evaluation of 4-Methylcyclohexanemethanol developmental toxicity, the primary chemical in the Elk River Spill"
11/8	<b>Zhen Gu</b> <i>NCSU</i>	"Leverage Physiology for Precision Drug Delivery"
11/15	<b>Gina Hilton</b> <i>NCSU PhD Student</i> & <b>Mark Ihrie</b> <i>NCSU PhD Student</i>	"Proteomic discovery of nanoparticle-induced lung disease" & "Allergen-Nanoparticles in asthma susceptibility"
11/22	<b>Kenneth Poss</b> <i>Duke University</i>	"Enhancing tissue regeneration"
11/29	<b>Rusty Thomas</b> <i>US EPA</i>	"Too many chemicals, so little time"

Time: 1:30 pm  
Location: Stephens Room, 3503 Thomas Hall



**August 29**  
**Dr. Jason Moore, University of Pennsylvania**  
(Hosted by Dr. Trudy Mackay)

**September 12**

**Dr. Rebecca Yang, Duke University**  
(Hosted by Dr. Robert Anholt)



**September 19**  
**Dr. Adriana San Miguel, NC State University**  
(Hosted by Dr. Robert Anholt)

**September 26**

**Dr. Sarah Elgin, Washington University**  
(Hosted by the Genetics Teaching Faculty)



**October 3**  
**Dr. David Remington, UNC Greensboro**  
(Alumnus Seminar, Hosted by Dr. Trudy Mackay)

**October 10**

**Dr. John Schimenti, Cornell University**  
(Hosted by Dr. Antonio Planchart)



**October 17**  
**Dr. Joseph Ecker, The Salk Institute**  
(Hosted by Dr. Jose Alonso and Dr. Anna Stepanova)

**October 24**

**Dr. Joan Steitz, Yale University**  
(Hosted by the Genetics Graduate Students)



**October 31**  
**Genetics Program Halloween Party**  
**Dr. Victor Frankenstein, University of Transylvania**  
(Hosted by the Ghouls and witches of the Genetics Program)

**November 7**

**Dr. Dahlia Nielsen, NC State University**  
(Hosted by Dr. David Aylor)



**November 14**  
**Dr. Harris Lewin, UC Davis**  
(Hosted by Dr. Trudy Mackay)

**November 21**

**Dr. Laurianne Chantal Van Landeghem, NC State University**  
(Hosted by Dr. Robert Anholt)



**November 28**  
**Dr. Hans Hofmann, UT Austin**  
(Hosted by the Genetics Graduate Students)

**December 5**

**Dr. Stephen Rich, University of Virginia**  
(Hosted by Dr. Trudy Mackay)





**SAVE THE DATE**  
**NC SOT Annual Meeting**  
**October 25, 2016**

National Institute of Environmental Health Sciences (NIEHS) Main Campus  
Research Triangle Park, NC

**Scientific Themes: Epigenetics and Stem Cells**

**Tentative Agenda**

**8:45 AM – 9:45 AM**

Career Panel Breakfast Discussion\*\*\*

\*\*\*PRE-REGISTRATION IS REQUIRED; Seating is limited to no more than  
25 students/Post-Docs

**10:00 AM – 4:30 PM**

Welcome & NCSOT Business Meeting

Presentations from Epigenetics Experts: Dr. Shaun McCullough (USEPA) &  
Dr. Catherine Hoyo (NC State)

President's Award for Research Competition (PARC; Open to Post-Docs  
Only)

Poster Session (Open to all members) and Competition (Open to both  
Graduate Students and Post-Docs)

Networking Lunch and Refreshment Break

Platform Presentations (Open to Graduate Students Only)

Presentations from Stem Cell Experts: Dr. Karen Augustine (Bristol Myers-  
Squibb) & Dr. Guang Hu (NIEHS)

Online Registration: <http://www.toxicology.org/groups/rc/nc/meetings.asp>

Registration\* is required for meeting attendance and **will close Friday, October 21, 2016.**

Registration covers cost of lunch and refreshments. Note: There will be no On-Site registration available.

\*Registration Fees are as follows: NCSOT Member- \$10; NCSOT Non-Member- \$15; NCSOT Student/Post Doc  
Member- \$5; NCSOT Student/Post Doc Non-Member- \$10

**Thank you to NIEHS for providing the venue for this meeting!**

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