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December 15, 2020

# GLOBAL CHANGE CENTER

AT VIRGINIA TECH



## The GCC Weekly

### ANNOUNCEMENTS



**Sending warm regards to each of you as we close out this unparalleled year. We hope that you are able to enjoy a safe and rejuvenating winter break and holiday season over the coming weeks!**

Pending any mid-winter break announcements, this will be the last *GCC Weekly* of the year, and our weekly e-newsletter will resume in mid-January along with the spring semester.

## Congratulations, Dr. Wind!

IGC fellow [Lauren Wind](#) successfully defended her PhD dissertation last Wednesday, December 9th. Lauren has her eyes on the future and is looking forward to a well-deserved holiday break and winter adventures ahead!

*Well done, Lauren!!*



# Tracking Antibiotic Resistance throughout Agroecosystems

LAUREN WIND  
DISSERTATION DEFENSE  
DECEMBER 9, 2020

COMMITTEE MEMBERS  
DR. LEIGH-ANNE KROMETIS, BSE  
DR. W. CULLY HESSON, BSE  
DR. AMY PRUDEN, CEE  
DR. BRIAN BADGLEY, SPES



## Changes to Qualtrics: Provide Your Input



Due to recent changes in the pricing of Qualtrics, the survey and data collection tool that is available to faculty across campus, **Virginia Tech is looking at alternatives for a campus-wide survey tool option.** The Office of Procurement is also negotiating with Qualtrics to develop an agreement, so that departments that need to use Qualtrics can purchase their own licenses for software and services at a more affordable cost. A committee is working on exploring new vendors for the university-wide, centrally funded license for general use. As the university goes through this process, they are **encouraging faculty and departments to contact them with ideas, needs and feedback.** If you have questions or comments, contact Patty Branscome in IT Procurement and Licensing Services at 540-231-9471 or [patty.branscome@vt.edu](mailto:patty.branscome@vt.edu).

## 2021 Protecting Human Health in a Changing Climate Conference

**February 9 & 11, 2021**  
3:00 - 7:00 PM

University of Virginia Health will host an interprofessional, internet-based blend of live interactive conference sessions and recorded presentations. During this virtual conference, health care providers will gain a deeper understanding of the relationships between a changing climate and human health. Continuing education credits provided by the University of Virginia School of Medicine and School of Nursing.

[Conference Flyer \[PDF\]](#) & [more information](#)

University of Virginia Health is pleased to present

### 2021 Protecting Human Health In a Changing Climate

An interprofessional, internet-based blend of live interactive conference sessions and recorded presentations.

February 9 & 11, 2021  
3:00 PM - 7:00 PM

#### Overview

During this virtual conference, health care providers will gain a deeper understanding of the relationships between a changing climate and human health. Climate change is leading to an increase in intensity and frequency of extreme weather and weather-related disasters, changes in air and water quality, and changes in the distribution of vector-borne illnesses. The effect of these changes on selected health conditions will be reviewed. By gaining a deeper understanding of these changes, health care professionals will be better prepared to address population health needs in the face of a changing climate. Through knowledge and networking, health care professionals will be empowered to exert their influence to effect change in public policy.

#### Credit Offered

- 7.0 IPCE Credits
- 7.0 Contact Hours
- 7.0 AMA PRA Category 1 Credits™
- 7.0 ACPA Category 1 CME Credits
- 7.0 Hours of Participation

#### Desired Outcomes/Educational Objective

Through participation in this virtual conference, participants will:

- Correlate the impact of climate change on selected human health conditions
- Articulate the impact of weather extremes, weather-related disasters, changing air quality, changing water quality, and changes in the distribution of vector-borne illnesses on selected health conditions
- Describe challenges associated with weather-related disaster preparedness for vulnerable individuals, communities, and populations
- Identify resources available and best practices for mitigating adverse effects of weather and climate impacts on health conditions
- Identify ways to become involved in promoting policies that help address the causes and consequences of climate change

## Employment Opportunities compiled by the CNRE Director of Employee Relations

You will need to be logged in with your VT ID to access some of the postings in Canvas:

- [Environmental Specialist positions with ECI](#) (Richmond, Norfolk, Newport News, VA)
- [Research Engineer I, Auburn University, Department of Biosystems Engineering](#) (Auburn, AL)
- [US Fish and Wildlife open positions](#) (US, various)
- [Animal Waste Conservation Planner, Virginia Soil and Water District](#) (Shenandoah Valley area, VA)
- [Educational Program Coordinator, VA Horticultural Foundation](#) (Virginia, TBD)
- [Forest Carbon Modeling and GIS Mapping position with Conservation+](#) (TBD)
- [Director of Environmental Justice with Dept of Environmental Quality](#) (Richmond, VA)
- [Environmental Planner](#) with New Kent County Environmental Department (New Kent, VA)

[Contact John Freeborn](#) to connect for additional opportunities not listed above, including summer internships and undergraduate research positions, and for future opportunities from CNRE!

## Undergraduate course of interest in Spring 2019: GEOS 3634 Natural History Collections & Curation



Interested in museums? An interactive, 3-credit, non-majors course as an introduction to museums and natural history collections, with a focus on curation of specimens to learn standard archival practices and principles. Exploration of VT campus collections such as the Museum of Geosciences, Massey Herbarium, and Cheatham Vertebrate Collection as well as virtual tours of other national and international collections with particular focus on: Specimen acquisition and accessioning; specimen preparation, preservation, an identification; collection organization; databasing and metadata; emergency response plans; and the role of museums over time for outreach and interpretation.

Taught by GCC affiliate [Michelle Stocker](#). Offered Mon/Wed afternoons; Virtual/synchronous

[Course Flyer \[PDF\]](#)

## FACULTY & FELLOW SPOTLIGHT

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### **Erin R. Hotchkiss - Biological Sciences**

Research in the Hotchkiss Lab explores climate, landscape, and in situ controls on freshwater biogeochemistry and ecosystem processes (e.g., carbon metabolism, nutrient cycling, food web dynamics), with the aim of understanding...

[Read more](#)

[www.globalchange.vt.edu](http://www.globalchange.vt.edu)



### **Sam Lane - Biological Sciences**

Sam's primary research focus is on the effects of urbanization on wild song sparrows and he uses an integrative approach that includes physiological, ecological, and neurobiological measures to understand the consequences of habitat change on...

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## **COMMUNITY**

### **Local shopping made easy with the YMCA Virtual Craft Fair Now through Dec 31**

Celebrating 51 years, the Annual YMCA Craft Fair is VIRTUAL this holiday season, offering you the opportunity to purchase unique, original, and beautiful handcrafted gifts. The Virtual Marketplace is open now through December 31 featuring the works of 50 amazing artisans.

[More information](#)





### New 'ghost kitchen' opens in Blacksburg

A new "ghost kitchen" opened in Blacksburg on Dec. 1 to serve up hot meals and build back revenue after getting hit by the coronavirus pandemic. To keep employees working and to restore the 20% loss in sales, the owners at Zeppoli's...

[Read more](#)

[www.wsls.com](http://www.wsls.com)



### Helping Others This Holiday Season | United Way NRV

One of the best things about the Holiday Season is there is no shortage of opportunities to help your community! United Way of Montgomery, Radford and Floyd has several ways you can help your neighbors this Holiday Season. Our needs list includes...

[Read more](#)

[www.unitedwaynr.org](http://www.unitedwaynr.org)



## William Hopkins receives Virginia's highest faculty honor

William Hopkins, professor of wildlife in the College of Natural Resources and Environment and director of the Global Change Center, has been selected to receive a 2021 Outstanding Faculty Award from the State Council of Higher Education for...

[Read more](https://vtnews.vt.edu)  
vtnews.vt.edu



## VT paleontologists fill gap in early evolutionary history

With the help of newly discovered skulls and skeletons that were unearthed in North America, Brazil, Argentina, and Madagascar in recent years, GCC affiliates Sterling Nesbitt and Michelle Stocker from the Department of Geosciences in...

[Read more](http://www.globalchange.vt.edu)  
[www.globalchange.vt.edu](http://www.globalchange.vt.edu)



### **Low O<sub>2</sub> levels in lakes, reservoirs accelerate global change**

Led by GCC affiliate and Biological Sciences associate professor, Dr. Cayelan Carey, this study was one of the first to experimentally test at the whole ecosystem-scale how different oxygen levels affect greenhouse gases. The data showed that low...

[Read more](http://www.globalchange.vt.edu)  
[www.globalchange.vt.edu](http://www.globalchange.vt.edu)



### **Linsey Marr selected as the speaker for VT fall commencement**

Linsey Marr, the Charles P. Lunsford Professor of Civil and Environmental Engineering and a Global Change Center affiliate, has been selected as the speaker for Virginia Tech's fall commencement exercises later this week.

[Read more](http://www.globalchange.vt.edu)  
[www.globalchange.vt.edu](http://www.globalchange.vt.edu)

Do you have an opportunity or announcement you'd like to share with the  
GCC community? [Send us an email!](#)

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