INSIDE EAPS NEWSLETTER

Read all of the latest news in our department magazine, Inside EAPS, including Antarctica research, public outreach, and clean energy for hybrid vehicles. The latest version of Inside EAPS newsletter can be found here: https://goo.gl/47U9VP

BE SURE TO CHECK OUT ALL OF THE EAPS COMMUNICATIONS MEDIA!

Facebook
Twitter
Department Magazine
Website News

EAPS SEMINARS

Morgan O’Neill
University of Chicago
March 8, 2018
3:30 PM
HAMP 1252

EAPS MEETINGS & EVENTS

EAPS FACULTY MEETINGS

Mar. 6, 2018
Mar. 27, 2018
3:00-4:30 PM
HAMP 3201

CoS FACULTY MEETINGS

April 17, 2018
3:30-4:30 PM
TBD

EAPS PRIMARY COMMITTEE MEETING

Apr. 3, 2018
3:00-5:00 PM
HAMP 3201

EAPS AWARDS BANQUET

Apr. 23, 2018
5:30 - 9:00 PM
Buchanon Club, Ross-Ade Pavilion

EAPS ALUMNI ADVISORY BOARD MEETING

Apr. 24, 2018
8:30 AM - 4:30 PM
HAMP 2201
**MS DEFENSES**

Patrick Saunders  
**March 27, 2018**  
9:00 AM  
HAMP 4173

Kevin Burris  
**March 29, 2018**  
8:00 AM  
HAMP 2107

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**STUDENT NEWS**

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**REGISTRATION APPOINTMENTS**

As a reminder – Please log into Boiler Connect to make a registration appointment for Fall 2018 courses.

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**SUMMER FELLOWSHIP (PAID!) OPPORTUNITY AT VIRGINIA TECH**  
[https://vtconfluence-reeu.weebly.com/](https://vtconfluence-reeu.weebly.com/)

Announcing their new USDA-funded research & extension experiences for undergraduates (reeu), training future leaders to solve resource challenges at the confluence of water and society.

and part-time staff members ($9/hr.) in order to accommodate students who are taking summer classes. The callouts for the position are on February 26th and 27th at 6pm in PHYS 203 (see attached flyer and job description for additional details).

The application will open on **Wednesday, February 28th** at 12pm and will close on **Sunday, March 18th** at 11:59p.m. Application information can be found at [http://www.purdue.edu/orientation/star/ambassadors.html](http://www.purdue.edu/orientation/star/ambassadors.html).

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**APA/MLA STYLE AND CITATION PRACTICES**  
**Wednesday, March 7th | 1:30 – 2:30 PM**  
HEAV 220

To get the most out of this workshop, bring a draft. Join us to learn more about using sources in your writing, from your introduction to your bibliography. We will focus specifically on MLA and APA styles.

Free and open to all Purdue students, staff and faculty. Registration is required, so sign up online at [https://cla.purdue.edu/wlschedule/](https://cla.purdue.edu/wlschedule/) and choose the “Group Workshops” schedule from the menu.

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**2018 CLIMATE DYNAMICS SUMMER INTERNSHIP PROGRAM FOR UNDERGRADUATE STUDENTS**

Are you in your junior year, have a strong interest in Atmospheric or Oceanic Science, and strong quantitative skills?

The department of Atmospheric, Oceanic, & Earth Sciences at George Mason University is accepting applications from undergraduate students in their third/penultimate year for a six-week summer internship position from **Monday, June 25** to **Friday, August 3, 2018**. Successful applicants will participate in a six-week research project under the supervision of one of our Climate Dynamics Faculty. They are looking for qualified students interested in the field of Climate Dynamics and gaining research experience. The two successful applicants will receive accommodation at George Mason University for the duration of the internship, and a $2400 stipend (*note travel costs will not be covered)*. Interested applicants should apply through the following link before **March 11**:  
[https://goo.gl/forms/bx7YCXCdX7nU4SVE3](https://goo.gl/forms/bx7YCXCdX7nU4SVE3)

If you have any questions please email: Natalie Burls – nburts@gmu.edu

For more information about our department, faculty and students visit: [https://cos.gmu.edu/aoes/](https://cos.gmu.edu/aoes/)

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**CALLING ALL GRADUATE STUDENTS AND EARLY CAREER SCIENTISTS!**

The second ARM Summer Training and Science Applications event on observations and modeling
of clouds and precipitation will take place **July 14 to 21, 2018**. The training will be held at the National Weather Center in Norman, Oklahoma.

**Deadline to apply is March 30, 2018.**

Sponsored by the ARM Climate Research Facility to support the next generation of atmospheric scientists, this training will cater to graduate students and early career scientists (within four years of receiving their PhD) who are interested in observations and modeling of aerosols and cloud and precipitation processes.

The summer training will provide theoretical and practical instruction on the application of ground-based observations from a wide array of active and passive sensors and will encourage innovative methods for using ARM facilities to address complex scientific inquiries.

Submit your application (i.e., a one-page motivation letter, one recommendation letter, and curriculum vitae [CV]) in a single PDF to Sarah Fillmore at sarah.fillmore@pnnl.gov. Selected participants will have their accommodation expenses covered by the ARM Facility.

Read more about the topics that will be covered during the event: [https://www.arm.gov/news/facility/post/47506](https://www.arm.gov/news/facility/post/47506)

**DISCUSSION GROUPS AT PURDUE COUNSELING AND GUIDANCE CENTER**

If you are stressed about a romantic breakup, or are grieving the loss of someone important to you, the Purdue Counseling and Guidance Center (PCGC) can help. The PCGC will be offering discussion groups on each of these topics on Wednesday nights, the next being **April 25th**. Each night will start with a free meal from 6:00 to 6:30pm and the groups will be from 6:30 to 8:00pm.

Topics for the groups are as follows:

* Grief discussion group—opportunity for college students who have experienced the death of someone important to them to talk about their experiences with grieving during college, with an emphasis on the uniqueness of grief.

* Romantic breakup discussion group—opportunity for college students who have recently experienced a breakup to talk about their reactions and responses, with an emphasis on the losses and gains that are often connected with the ending of significant relationships.

Students interested in attending one of these groups must contact the PCGC—spaces are limited. For more information and/or to sign up, call 494-9738. Limited spaces are also available for individual counseling for general concerns. Our email address is pcgc@purdue.edu and our website is [www.edst.purdue.edu/pcgc](http://www.edst.purdue.edu/pcgc).

**PURDUE UNDERGRADUATE RESEARCH CONFERENCE—NOW ACCEPTING PAPERS & ABSTRACTS**

The Purdue Undergraduate Research Conference (formerly the Purdue Undergraduate Research Symposium) is scheduled for **April 10, 2018** and they are now accepting papers and abstracts for oral presentations and posters at the conference. For the submission site and "How to" guide, visit: [http://purdue.edu/undergrad-research](http://purdue.edu/undergrad-research). Please see attached flier for more details.

**CROSSROADS GEOLOGY CONFERENCE**

**MARCH 23 & 24, 2018**

**INDIANA UNIVERSITY, BLOOMINGTON, INDIANA**

Abstract Deadline: **March 10, 2018!**

The student members of the Rho chapter of Sigma Gamma Epsilon at Indiana University invite you to participate in the annual Crossroads Geology Conference at Indiana University. This conference is a student-organized event featuring research presentations by graduate and undergraduate students in the geological, atmospheric, and environmental sciences from a number of regional
colleges and universities, at Indiana University in Bloomington.

For more information, please see http://www.indiana.edu/~sgeweb1/

ENTERPRISE AND THE ENVIRONMENT
SUMMER SCHOOL
July 1-13, 2018

The Smith School of Enterprise and the Environment at the University of Oxford. We would like to invite students at the Purdue department for earth, atmospheric and planetary sciences to apply for our Enterprise and the Environment Summer School which will take place from 1st - 13th July 2018 in Oxford. It is a summer school intended for undergraduates, as well as recent graduates passionate about leading environmental change in business, society and government. See attached for more information.

GLOBAL SCIENCE PARTNERSHIPS LEARNING COMMUNITY

Attention: all first year college of science students! See the attached flier for information about free dinners, trips, and activities that are designed to help you learn about other cultures...while having fun!

POC: Terry Ham: hamt@purdue.edu or globalsciencepartners@purdue.edu

BOILER WELLNESS E-NEWSLETTER

Please check out the attached January Boiler Wellness E-Newsletter. In it, you will find information about upcoming Mindfulness, Resilience and Crave Series, the Lunch and Learns, and the Crockpot Meals.

2018 SUMMER RESEARCH EXPERIENCES FOR UNDERGRADUATES PROGRAM

The 2018 Summer Research Experiences for Undergraduates (REU) Program in climate change in semi-arid regions hosted by the Environmental Science Institute at the University of Texas at Austin. The program is currently in its 15th year, with 130 alumni, many of whom have presented the results of their REU research at national conferences and/or published in peer reviewed journals.

The program is aimed at rising juniors and seniors and open to students who are US citizens in good academic standing. We especially invite applications from members of traditionally underrepresented groups.

Please feel free to download the program flyer and share widely with students who may be interested in this program. Program information, including the online application, can be found on our website.

PURDUE TO ADD TWO-FACTOR AUTHENTICATION FOR ALL FACULTY AND STAFF DURING SPRING SEMESTER

Coming soon, all of Purdue’s faculty and staff will need to begin using two-factor authentication, known at Purdue as BoilerKey, to log into the new employee portal, SuccessFactors, improving security of personal and University data alike. Signup for BoilerKey is now ready for all Purdue employees at www.purdue.edu/boilerkey. Purdue faculty and staff can expect reminders to sign up in the form of direct emails, social media posts and Purdue Today articles to give instructions on how and where to sign up throughout the coming spring semester. The employee portal allows employees to create leave requests and check paystubs. It also handles many of the University’s business functions.

What is two-factor authentication?

BoilerKey adds a second login requirement to go with your password. At Purdue, it’s a numerical code randomly generated on a smartphone app called Duo or a key fob.
Essentially, even if someone were to get ahold of your password (if you fall for a phishing email, for instance), your account would still be protected because only you can physically access your smartphone or key fob to get the necessary login code.

SUNY ESF is seeking two assistant professors to teach introductory physics courses, with remote sensing being a possible research area.

The full position description and application instructions are here: https://esf.interviewexchange.com/jobofferdetails.jsp?JOBID=94145

Assistant Professor - Physics Courses / Open Research: The State University of New York, College of Environmental Science and Forestry (SUNY ESF) invites applications for two tenure-track faculty positions at the Assistant Professor level to start in Fall 2018. The successful candidates will be required to teach introductory Physics courses, conduct research in their areas of specialty, assist in the development of a new “Physics Program” at ESF, and participate in service activities. The research area is open; illustrative examples include soft matter, computer simulation, computational fluid mechanics, atmospheric or oceanic physics, energy system modeling, renewable materials science, remote sensing, geotechnical engineering, or geoengineering. Opportunities exist for collaboration with faculty at the Department of Physics and the Biomaterials Institute at neighboring Syracuse University. We seek candidates with excellence in both teaching and research and commitment to professional and University service.

Note that the application deadline in March/1, interested candidates are encouraged to complete their application by this Sunday.

HONORS COLLEGE INVITATION

The Honors College is hosting a brand new endowed lecture series courtesy of Dr. Arthur Aronson and his family, “The Aronson Family Science and Society Honors Lecture Series.” Our first speaker is Dr. Moira Gunn, a Purdue alumnae who was the first woman to earn a Ph.D. in Mechanical Engineering from Purdue. She has previously served as a scientist for NASA, and is currently the host of the Tech Nation and Bio Tech Nation radio programs on NPR.

I write to invite you to attend her lecture on Tuesday, March 6 at 5:00 p.m. in Honors Hall, located in the Honors College and Residences North (HCRN) building at 1101 Third St. Following the lecture there will be a reception with light refreshments. Her lecture is titled, “The Arc of Media and the Future of Truth;” a subject that is very important as new digital distribution media continue to become more accessible and influential. She will be specifically discussing the methods in which news has changed as well as how and why we must learn to discern the “truth” on our own.

This event is completely free and open to Purdue students, faculty and staff, as well as the general public. Please feel welcome to invite your faculty and staff and pass along that they are welcome to bring guests. I look forward to seeing those of you who can join us on Tuesday, March 6.
IMPORTANT NOTICE ABOUT THIS NEWSLETTER

This newsletter is used as the primary information source for current and upcoming events, announcements, awards, grant opportunities, and other happenings in our department and around campus. Active links to additional information will be provided as needed. Individual email announcements will no longer be sent unless the content is time-sensitive. We will continue to include our publications, presentations and other recent news items as well.

Those using paper copies of the newsletter should go to our newsletter archive on the EAPS website at http://www.eaps.purdue.edu/news/newsletters.html and Click on News to access active links as needed. Material for inclusion in the newsletter should be submitted to Fallon McQuern (fmcquern@purdue.edu) by 5:00pm on Thursday of each week for inclusion in the Monday issue.

If it is in the newsletter, we assume you know about it and no other reminders are needed. For answers to common technology questions and the latest updates from the EAPS Technology Support staff, please visit: http://www.eaps.purdue.edu/resources/information_technology/index.htm

Also, as an additional resource for information about departmental events, seminars, etc., see our departmental calendar at http://www.EAPS.purdue.edu/events-calendar.html

http://www.eaps.purdue.edu/
Gravity Waves in Tropical Cyclones

Morgan O’Neill
University of Chicago

Satellite observations of cloudy hurricane canopies have shown a universal, daily, wave-like feature that propagates radially outward, as far as 600 km (Dunion et al. 2014). Daytime solar heating of a hurricane’s upper eyewall is surely responsible, but the mechanism for the wave was previously unknown. I will discuss numerical experiments that suggest these waves are internal inertia-gravity waves, and in fact propagate through (almost!) the entire depth of the hurricane. Their structure is similar to the classical “St. Andrew’s cross” pattern response to a bobbing cylinder in a quiescent fluid. Due to the hurricane’s flow field, diurnal waves can only begin to propagate well beyond the storm core, though the anticyclonic outflow region is more receptive to near-core diurnal propagation. The prohibited region is highly sensitive to disruptions to the wind field that resemble an eyewall replacement cycle.

Thursday, March 8, 2018
3:30 p.m.
Room 1252 HAMP

Refreshments at 3:00 pm
Room 2201/HAMP
Write it, cite it.

WORKSHOP

APA/MLA Style and Citation Practices

Wednesday, March 7th | 1:30 – 2:30 PM
HEAV 220

To get the most out of this workshop, bring a draft. Join us to learn more about using sources in your writing, from your introduction to your bibliography. We will focus specifically on MLA and APA styles.

Free and open to all Purdue students, staff and faculty. Registration is required, so sign up online at https://cla.purdue.edu/wlschedule/ and choose the “Group Workshops” schedule from the menu.

More Spring Semester Workshops

Integrating Sources into Writing Assignments  Wed., Mar. 21
Revising and Proofreading Drafts  Wed., Apr. 4
Professional Email Communication  Wed., Apr. 18

Contact Us
HEAV 226  |  (765) 494-3723
http://owl.english.purdue.edu
@PurdueWLab
Facebook /PurdueUniversityWritingLab
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