**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](https://goo.gl/47U9VP)

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

- [Facebook](#)
- [Twitter](#)
- [Department Magazine](#)
- [Website News](#)

**CONSTRUCTION PROJECTS FOR HAMPTON HALL OF CIVIL ENGINEERING**

Please review the attached list of upcoming constructions projects for the HAMP building.

**EAPS MEETINGS & EVENTS**

**EAPS HOLIDAY PARTY**

December 5, 2017
12:00 -1:30 PM
HAMP 2201

**EAPS FACULTY MEETING**

December 5, 2017
3:00 PM
HAMP 3201

**AGU FALL MEETING RECEPTION**

December 14, 2017
7:00 P.M – 9:30 P.M.
The District
711 Tchoupitoulas Street
New Orleans, LA

**EAPS MAIN OFFICE**

*HOLIDAY CLOSING*

Dec. 25-29, 2017
Jan. 1-2, 2018

[http://www.eaps.purdue.edu/](http://www.eaps.purdue.edu/)
EAPS SEMINAR
Sarah Feakins
University of Southern California
Thursday, December 7, 2017
3:30 PM
HAMP 1252

FACULTY NEWS
Professor Harshvardhan presented two seminars on the dates given at the following locations:


STUDENT NEWS

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.

SULI PROGRAM FOR UNDERGRAD STUDENTS

The Science Undergraduate Laboratory Internship (SULI) program encourages undergraduate students to pursue science, technology, engineering, and mathematics (STEM) careers by providing research experiences at the Department of Energy (DOE) laboratories. Selected students participate as interns appointed at one of 17 participating DOE laboratories/facilities. They perform research, under the guidance of laboratory staff scientists or engineers, on projects supporting the DOE mission.

The SULI program is sponsored and managed by the DOE Office of Science’s Office of Workforce Development for Teachers and Scientists (WDTS) in collaboration with the DOE laboratories/facilities.

Applications for the SULI program are solicited annually for three separate internship terms. Internship appointments are 10 weeks in duration for the Summer Term (May through August) or 16 weeks in duration for the fall (August through December) and spring (January through May) Terms. Each DOE laboratory/facility offers different research opportunities; not all DOE laboratories/facilities offer internships during the fall and spring Terms.

The link below goes to a summer undergraduate internship opportunity with the US Department of Energy, sent to me by our recent colloquium speaker, Dr. Scott Collis (who is one of the available mentors at nearby Argonne National Laboratory). The application deadline is 12 January 2018.

Please disseminate to any EAPS undergrads you think might be interested. DOE does work involving virtually all sub-disciplines within EAPS (atmospheric science, geology, environmental science, hydrology, etc.). Please direct any questions about the internship directly to SULI, or see their FAQ.

https://science.energy.gov/wdts/suli/

http://www.eaps.purdue.edu/
Applications are now being accepted for the exploration science summer intern program. The Lunar and Planetary Institute (LPI) is hosting a special summer intern program to involve students in activities that support missions to the Moon that utilize the Orion crew vehicle, the Deep Space Gateway, and robotic assets on the lunar surface. It is a unique opportunity to integrate scientific input with exploration activities in a way that mission architects and spacecraft engineers can use. Activities may involve assessments of landing sites and traverse plans for multiple destinations that are responsive to NASA objectives. The LPI invites applications from graduate students in geology, planetary science, and related programs.

The Exploration Science Summer Intern Program builds on the success of the Lunar Exploration Summer Intern Program that was designed to evaluate possible landing sites on the Moon for robotic and human exploration missions. Over a five year period (2008–2012), teams of students worked with LPI science staff and their collaborators to produce A Global Lunar Landing Site Study to Provide the Scientific Context for Exploration of the Moon. The program for 2018 is designed to have the same impact on future exploration activities. This will be a unique team activity that should foster extensive discussions among students and senior science team members.

The 10-week program runs from **May 29, 2018**, through **August 3, 2018**. Selected interns will receive a $5,883 stipend, and up to a $1,000 travel expense reimbursement for U.S. citizens, or $1,500 for foreign nationals.

**APPLICATION DEADLINE: January 19, 2018**

Applications are only accepted using the online application form found at the LPI’s Exploration Science Summer Intern website: [https://www.lpi.usra.edu/exploration_intern/](https://www.lpi.usra.edu/exploration_intern/)

For more information, contact: Brittany McNeal
Exploration Science Summer Intern Program
[ExplorationIntern@lpi.usra.edu](mailto:ExplorationIntern@lpi.usra.edu)
*Note: you will need a form 231 signed by Alicia before you can take the placement exam*

For more information on placement, credit, and testing in other languages, please see our School of Languages and Cultures' Placement Page: https://www.cla.purdue.edu/slc/placement/index.html

**WOMEN IN SCIENCE FELLOWSHIP PROGRAM**

L’Oréal USA for Women in Science The L’Oréal USA For Women in Science fellowship program honors female scientists at a critical stage in their careers with grants of $60,000 each. Candidates are selected from a variety of fields including the life and physical/material sciences, technology (including computer science), engineering, and mathematics. Candidates must have completed their PhD and have started in their postdoctoral position by the application deadline.

**Deadline:** February 2

**GK-12 CALLOUT!**

You are invited to a GK-12 Callout for graduate students sharing research with K-12 students and teachers.

**December 8, 2017**
4:00 PM
HAMP 2201

Pizza and soda will be provided!

**U.S. AIR FORCE RESEARCH LABORATORIES (AFRL) IS ACCEPTING APPLICATIONS FOR 2018 AFRL REPPERGER RESEARCH INTERNSHIP PROGRAM**

This civilian research opportunity is a 10-week summer program intended for MS/PhD candidates pursuing degrees in STEM. Each year the laboratory will appoint a couple exceptional undergraduate students into the program. There are 36 posted opportunities, once the application January 21, 2018 deadline passes, each application will be reviewed and AFRL will fund 15 participants for the summer period. Check out the opportunity catalog to review all of the available opportunities, there are available research opportunities in nearly every STEM field! Please apply to no more than (3) Repperger opportunities and only apply to opportunities in your applicable educational background.

**2018 AFRL Repperger Research Internship Program Catalog:** https://www.orau.org/maryland/Repper%20Intern%20Project%20Brochure%20-%202018.pdf

To qualify, applicants must be pursuing their Master or PhD (some outstanding bachelor students will be considered as well), have a minimal 3.2 GPA in a STEM discipline and be a U.S. citizen. Selected participants will receive a $12,000 stipend for their participation in the internship which runs from June 4-August 10, 2018. All complete applications must be submitted by January 21, 2018. To apply, visit https://www.orau.org/maryland/repperger.html. For more information, visit: www.orau.org/maryland, or email Recruiter@orau.org.

Additional summer and postgraduate opportunities (Bachelor-Postdoctoral opportunities) are posted to the ORAU Maryland website, currently over 200 open research opportunities: www.orau.org/maryland.
Army Research Lab – Summer Journeyman Fellowship
http://www.orau.org/artfellowship/applicants/how-to-apply-summer-journeyman.htm
Army Institute for Surgical Research Summer Internship Program
https://www.orau.org/maryland/isr.html
I hope that you will share this e-mail with students at your intuition and encourage them to apply!

Sharon C. Rice
Recruiting & Marketing, Program Specialist
Scientific Assessment and Workforce Development
Office: (410) 306-9200  Direct: (410) 306-9201  Fax: (410) 306-9306
recruiter@ORAU.org

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 McQuem (fmcquem@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/
You're Invited to the

EAPS HOLIDAY CELEBRATION

Please join us on
Tuesday, December 5
12:00 PM - 1:30 PM
Hampton Hall 2201

RSVP to Fallon McQuern by Nov. 28.
Main dish provided.
Please bring a side or dessert to share.
10th Annual
PURDUE RECEPTION
at the AGU Fall Meeting

Thursday, December 14
7:00 P.M. – 9:30 P.M.

The District
711 Tchoupitoulas Street
New Orleans, LA

Complimentary heavy hors d’oeuvres and beverages

Co-sponsored by:
Department of Earth, Atmospheric, and Planetary Sciences (EAPS)
and
Purdue Climate Change Research Center (PCCRC)
Aug. 22  Ki-Hong Min, Kyungpook National University  
Tuesday, 4:00PM, Room 2201/HAMP  
Host: Sun

Aug. 24  Roland Stull, University of British Columbia  
Host: Tanamachi

Aug. 31  Tim Cronin, MIT  
Host: Chavas

Sept. 7  Vince Agard, MIT  
Host: Chavas

Sept. 14  Amir Allan, University of Utah  
Host: Ridgway

Sept. 21  Ed Harvey, U.S. National Park Service, Water Resources Division  
Cancelled  
Host: Frisbee

Sept. 28  David Minton, Purdue University

Oct. 5  Devon Orme, Montana State University  
Host: Ridgway

Oct. 12  Cliff Johnston, Purdue University

Oct. 19  Chanh Kieu, Indiana University  
Host: Chavas

Oct. 24  Zhou Lyu, PhD candidate  
Tuesday, 4:00PM, Room 2201/HAMP  
Advisor: Zhuang

Oct. 26  Julie Castillo-Rogez, Jet Propulsion Laboratory, NASA  
Host: Minton

Oct. 31  Tong Yu, PhD candidate  
Tuesday, 4:00PM, Room 2201/HAMP  
Advisor: Zhuang

Nov. 2  Scott Collis, Argonne National Laboratory  
Host: Tanamachi

Nov. 9  Jack Kaye, Earth Science Division, NASA  
Host: Zhuang

Nov. 16  Xiangdong Zhang, University of Alaska, Fairbanks  
Host: Zhuang

Nov. 30  Rossella Guerrieri, CREAF, Univ. Autònoma de Barcelona  
Host: Michalski

Dec. 7  Sarah Feakins, University of Southern California  
Host: Welp/Huber
Plant wax biomarkers perform multiple functions for living plants and through their remarkable resiliency they leave a rich sedimentary legacy for biogeochemical interpretation. Over the past dozen years, I’ve studied the isotopic signatures of these compounds in sedimentary archives around the world, and now find it is time to answer hard questions about these biomarkers in challenging tropical environments. How well do plant biomarkers work as paleoenvironmental proxies in the tropical context of high biodiversity, and how are these biomarkers exported from source to sink? My talk will take you on a picturesque journey through from the tropical montane forests of the Andes, down into lowland Amazonia, via the Madre De Dios River within Peru. Through ambitious sampling campaigns in remote environments, my collaborators and I have acquired unprecedented sample sets across steep topographic, environmental and ecological gradients. At USC, my group and I have analyzed the leaf wax molecules in Andean and Amazonian forests and found they capture elevation-specific isotopic signatures. We analyzed the same biomarkers in fluvial transport to determine spatial and temporal integration processes, and the downstream propagation of those signals. I offer answers from this Andes-Amazon transect of plants, soils and river sediments, as well as general perspectives on biomarker approaches to reconstructing paleoenvironment, paleo-altimetry and carbon cycling.
Upcoming CE Projects

**2131/2135 Lab Remodel:**
- Tentative Start Date = 12/18/17
- Tentative End Date = 6/15/18

**Basement/Ground Floor Renovation:**
Areas affected by Phase (1): B146 / B150 / B157 / B289
- Movers for Phase (1) = 10/24/017
- Tentative Construction Start Date Phase (1) = 11/6/17
- Tentative Construction End Date Phase (1) = 2/16/18

Areas affected by Phase (2): G146 / G157 / G159 / G277 / Courtyard
- Tentative Date - Movers for Phase (2) = 2/19/18
- Tentative Construction Start Date Phase (2) = 2/26/18
- Tentative Construction End Date Phase (2) = 6/22/18
School of Languages and Cultures

Foreign Language Placement Testing

For French, German, Japanese, Latin, Russian, Spanish, and Spanish for Heritage Speakers

Placement Testing during Spring 2018 Semester:

**January:** Mon., 1/8, Tues. 1/9, 6 PM, SC 231

**April:** Wed. 4/4, Thurs. 4/5, Fri. 4/6, 6 PM SC 231

$35 Purdue Students, $55 non-students

**Students billed by Bursar’s Office after testing**

Contact your advisor for eligibility and permission form

Bring to exam:

Form 231 signed by advisor

Purdue ID

For placement questions in other languages, please visit the SLC website:

https://www.cla.purdue.edu/slc/placement/index.html

Questions: Dr. Jason Baumer, jbaumer@purdue.edu

https://www.cla.purdue.edu/slc/placement/index.html
You are invited to a GK-12 Callout!

- want to sharpen your teaching and communication skills?
- want to bring your research into the K-12 classroom for broader impact?
- want to strengthen your CV with TEACHING, SERVICE, and OUTREACH experience?

COME join us!

December
Friday 8th, 2017
4 pm

Hampton Hall 2201

Questions? yang1178@purdue.edu
(586)-549-4551

https://www.purdue.edu/gradschool/gspd/gk-12/index.html
2018 College of Science Graduate Student International Travel Awards

Deadline: December 1, 2017
For travel between January 1, 2018 and June 30, 2018
~ 2 or 3 awards ranging up to $800 for international travel will be awarded~

Prerequisites:
• must be a full-time PhD student within the Department in the College of Science
• must be making an oral or poster presentation at an international conference

Priority will be given to:
• travel to make an oral presentation at a conference
• attendance at an interdisciplinary conference
• students who have passed their prelims

To apply, please send electronically as one file:
• CV (2 page limit)
• brief summary of research (1 page limit)
• brief statement of purpose for attending conference specifying whether your presentation is oral or poster
• provide web link to conference
• letter of support from research advisor

Send applications to Robin Sipes at rsipes@purdue.edu