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DEPARTMENT NEWS

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

CONSTRUCTION PROJECTS FOR HAMPTON HALL OF CIVIL ENGINEERING

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

http://www.eaps.purdue.edu/
BIRTH ANNOUNCEMENT

Professor Marty Frisbee and his wife Emily welcomed a baby girl, Josie Ellen Frisbee, on Nov. 30, 2017 at 12:33 AM. She weighed 7 lbs. 7 oz. and 21 inches long.

FACULTY NEWS

Terry West attended the 31st annual meeting of the Indiana Society Mining and Reclamation in Evansville, IN on December 4 and 5, 2017. He was accompanied by Alivia Stoller, EAPS graduate student who presented a poster paper “Exploration of the recent transition to roundabouts from intersections in West Lafayette, IN.”

The presentation was greatly appreciated by the 150 attendees at the conference. Terry West is a member of the Executive Committee with members from the coal industry and governmental agencies in Indiana. This twelve member committee, appointed by the Director of the Indiana Department of Natural Resources, meets quarterly to plan this annual conference.

EAPS OUTREACH

In the 2016 – 2017 school year EAPS K-12 Outreach had 106 events with 11,870 total student interactions and 293 teacher interactions. Many of these events are the result of collaborations with community groups, faculty, and schools. They would be happy to help you with your next grant and synergistic activities for your broader impacts. Contact the EAPS K-12 Outreach Coordinator, Steven Smith, to discuss how they can help you!

Have you seen the updated EAPS K-12 Outreach page? Check it out here:

TUTORS NEEDED FOR EAPS COURSES!

The Purdue University Athletic Department is seeking students to tutor EAPS courses. Tutors are needed for EAPS 104, EAPS 116, and EAPS 120. Tutors must have no lower than a B in the respective course(s). This position is paid! If you are interested, please contact Candace Britten: Tutor Mentor Coordinator @ cbritten@purdue.edu.
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.

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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.

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

http://www.eaps.purdue.edu/
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

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**SUMMER 2018 @ NASA AIRBORNE STUDENT AIRBORNE RESEARCH PROGRAM**

**Application deadline is: Jan. 31, 2018**

Applications are open for the summer 2018 @NASAAirborne Student Airborne Research Program (SARP)! It's a great opportunity for undergrads to experience research on the DC-8!

[https://t.co/dzXHR4yh7d](https://t.co/dzXHR4yh7d)
[https://t.co/8t3IESatu](https://t.co/8t3IESatu)
[https://airbornescience.nasa.gov/nsrc/content/National_Suborbital_Research_Center_SARP_2017](https://airbornescience.nasa.gov/nsrc/content/National_Suborbital_Research_Center_SARP_2017)

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**WINTER BREAK**

For students who are planning to stay at Purdue over winter break, please use the following link to get more information about available housing: [https://www.housing.purdue.edu/Housing/WinterBreak.html](https://www.housing.purdue.edu/Housing/WinterBreak.html)

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**FOREIGN LANGUAGE PLACEMENT TESTING**

Interested in taking a placement test to determine your foreign language course? The next testing session for the languages we test in the FLPTlab will be on the first two nights of the spring semester, Mon. and Tues. **1/8-1/9**. A flyer is attached. Students will be charged a $35 for each placement test starting in the spring 2018 term. The Bursar's Office will bill students the rate for placement testing after the exam. We will waive the rate for students who are Pell Grant eligible.

*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/slcl/Placement/index.html](https://www.cla.purdue.edu/slcl/Placement/index.html)

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**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**

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**WORKSHOP ANNOUNCEMENT: BRINGING INTERCULTURAL COMPETENCE TO THE CLASSROOM**

Issues and ideas for bringing intercultural competence into Purdue classrooms will be the focus of a special session of College Teaching Workshops hosted by the Center for Instructional Excellence, on **Tuesday, Dec. 12**, 10:30-11:45 am, in the Wilmeth Active Learning Center, room 3090.

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[http://www.eaps.purdue.edu/](http://www.eaps.purdue.edu/)
Temi Wright, an Ambassador for the Center for Intercultural Learning (CILMAR), will facilitate the session, which is designed for faculty, graduate teaching assistants, and staff who are interested in advancing their own awareness of and skills in diversity and intercultural competence, and in helping their students do the same.

Participants will define the terms, explore reasons for incorporating such concepts in courses, and develop ideas for adapting classroom environments and pedagogical designs in ways that are sensitive to the multiple perspectives and cultures that are present in Purdue’s classrooms. The session meets 1.25 hours of instructional development criteria for the Graduate Teaching Certificate program. There is no pre-registration, but sign-in will be requested for those participating in the Certificate program.

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 appointment 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.

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/arlait/fellowship/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


http://www.eaps.purdue.edu/
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
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)
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
In the 21st century, science is no longer just a “subject” to be taken at school or a profession to be pursued. More than ever science is a site of struggle—a space that requires our collective action and our commitment to become more scientifically literate. For example, science is impacting what we eat (e.g. genetically modified organisms; organic vs. pesticide rich foods); medicine (e.g. the mapping of the human genome; pharmaceutical companies’ profit vs. universal health care); engineering (e.g. profits vs. ethics; the NGSS for K-12 schools vs. critically deconstructing unfunded policies); environmental sustainability (managed growth vs. climate change; environmental racism); and so on.

For over 5 decades, we have seen great advancements in educational research. Through multicultural education research, we now have a better understanding of the sociocultural, institutional and historical factors that influence students’ access and success in schools. Why is that then that educational research continues to have so little impact on teachers’ practice, student achievement, state/national policy, and on the public at large? In this course, we will review relevant research literature on science education in order to explore these and other important questions. We will also closely examine how promising research on teaching and learning for social justice is being used as a sociotransformative tool. Since the course is designed to be a hands-on and minds-on seminar, at least two culturally/socially relevant science/STEM activities will be modeled and deconstructed in class. Participants will also have multiple opportunities to connect course content and projects to their own working contexts. This broad seminar course is open to all students and a background in science or curriculum is not required. Thus, science will not be used in its traditional content-based disciplinary focus; instead, science will be discussed as a site of social struggle. Students interested in increasing their knowledge of critical cross-cultural education, transformative/activist research, and science literacy for social justice and planet sustainability are encouraged to enroll.
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