EAPS FACULTY AND STAFF AWARD WINNERS

Jeff Trapp, Associate Head
Undergraduate Advising Award – Sonia Lasher-Trapp
Graduate Student Mentoring Award – Qianlai Zhuang
Professional Achievement Award – Bethany Theiling
Leadership Award – Phil Smith
Jeff Roberts, Dean
Customer Service Award – Stacie Cordell

EAPS SEMINAR

Thursday, 3/7, 3:30 pm, HAMP 1252
Refreshments, 3:00-3:30, HAMP 2201

EAPS MEETINGS

Tuesday, March 5, 1:30, HAMP 3232
Graduate Committee

EAPS PRESENTATIONS


EAPS FACULTY AND STAFF AWARD WINNERS

Congratulations!

EAPS SEMINAR

Monday, March 4, 5:00-6:30 pm, HAMP 4th Floor Computer Lab
EAPSGSA/WISP Illustrator Workshop, Dave Blair
Learn how to make professional-looking posters and figures with Adobe Illustrator! Everyone is welcome; this workshop is geared towards new users, so no prior experience is necessary or expected. Space is limited, so show up early to make sure you get a seat. We also encourage you to bring your own laptop with Illustrator installed if you can. Check out the event on the EAPSGSA Facebook page for more info, and please contact Dave Blair (dblair@purdue.edu) with any other questions. Hope to see you there!

EAPS International Potluck Dinner

Successful International Potluck dinner on Thursday, 2/28. More than 30 students, faculty and staff participated.

CAMPUS NEWS

DISTINGUISHED SEMINAR SERIES

Tuesday, March 5, 3:30 – seminar; 4:30 – reception
Jim Duderstadt, President Emeritus, Univ. of Michigan, “The Future of the American Research University.”
(See attached flyer)

Nobel Peace Prize Forum Panel
“Food Security = World Security”
Friday, March 8th, 2:30 – 4:30 PM
Deans Auditorium in Pfendler Hall,
Refreshments Provided
(See attached flyer for details)

DISCOVERY PARK NanoDays
Educational Activities about Nanoscale Science and Engineering for students in Grades K-12
Volunteer at www.nano.purdue.edu/nanodays
(See attached flyer)
DEADLINE EXTENDED
PGS-2013 CALL FOR PRESENTATIONS

The 2013 Purdue Geotechnical Society (PGS) Workshop and the 11th G.A. Leonards Lecture will take place on Friday, April 19, 2013.
(See attached flyer details)

NASA Langley Research Center
The Langley Aerospace Research Student Scholars (LARSS) Research Internship Program

The NASA LARSS internship program is a paid (stipend) research experience open to U.S. citizens who are full-time undergraduate (juniors and seniors) and graduate students.
http://www.nianet.org/larss
(See the attached flyer for details)

COLLEGE OF SCIENCE NEWS

SCIENCE IT HELP DESK NUMBER – 49-44488

This number rings on all of the IT desks supporting you in an effort to allow the option of picking up the phone for support rather than submitting a ticket via email.

Currently, we have 5 IT professionals along with a number of student workers in areas where this number will ring. It is my hope that you will always be able to get to talk to a person via phone when you need assistance. We will have someone available to answer the phone from 8am – 5pm M–F.

Depending on the staffing at the time of your call, we may be able to assist you on the spot, or we will submit a ticket for you and get someone to you as soon as possible. Hopefully this will eliminate the need for you to ‘go find someone’ for assistance when your machine won’t work.

The email addresses that you have used in the past will continue to work, both sciencehelp@purdue.edu and eaps-help@purdue.edu (eaps-help@purdue.edu will also still work).

As a helpful reminder, I have magnets with the number and our email address that I will leave with each department area for your reference.

I look forward to working with all of you and please, don’t hesitate to let me know if you have questions or concerns.

Suzanne Judy, Director of Admin Computing

Office of Interdisciplinary Graduate Programs (OIGP)
Reception and Celebration

Faculty and students are invited to join the Office of Interdisciplinary Graduate Programs (OIGP) for a reception in celebration of interdisciplinary graduate student research on Monday, April 1, 2013. For details, please visit:
https://www.gradschool.purdue.edu/WhatsNew/OIGP.pdf. Poster and Award Application information for students can be found at:
https://www.gradschool.purdue.edu/oigp/calendar/reception.cfm.

The US Department of Energy’s Geothermal Technologies Program and Oak Ridge Institute for Science Education are pleased to announce the 2013 Geothermal Student Competition

The Challenge: The Competition seeks to engage students in a collaborative exercise to develop a business plan for developing a geothermal enterprise. Applicants are encouraged to consider a candidate resource in their home state/region, though convincing plans for any domestic target will be considered.

For more information please see the attachment or contact Dr. Desmond Stubbs, Program Manager by email: geothermalstudentcompetition@orise.orau.gov

GRADS AND POST-DOS’ NEWS

4TH Annual MIDWEST GRADUATE RESEARCH SYMPOSIUM
The University of Toledo, Saturday, April 20, 2013, 8:00 am – 7:30 pm. (See attached flyer for details)

5TH Computational Science and Engineering Student Conference
Friday, April 5th
Registration and Abstract Submission:
http://clesc2013.wordpress.com/
(See attached flyer for more details)

MAYMESTER ABROAD CALLOUT
Tuesday, March 5, 7:00-8:00 pm, HAMP 2101
(See attached flyer)

A NOTE FROM OUR ACADEMIC COUNSELOR

March Calendar
March 8 – Undergraduate Research Symposium Registration Deadline
March 10 - Daylight Savings Time returns at 2 a.m. Set forward by 1 hour any devices that don’t automatically switch.
March 11-15 Spring Break—no classes.
March 11 – Registration information to appear in myPurdue—the list of classes for fall 2013 and when you can add classes (your time ticket).
March 18- LAST day for anyone to a drop a spring class. All drops require paperwork and either 2 or 3 signatures.
March 26 – Undergraduate Research Poster Symposium from 12 noon – 3 p.m. PMU Ballrooms

Call for College Student Summer Volunteers
The National Weather Service office at Indianapolis [IN] is currently accepting applications for its summer volunteer program. Interested meteorology college students should submit a cover letter and resume to Paula.Cadwell@noaa.gov by March 14. Please note that some evening shift hours will be required. Link for this notice:
Need Resume Assistance? Walk-in assistance is on a first-come, first-served basis from 10:00am to 4:00pm Monday-Friday from the CCO in STEW Rm. 194 phone: 494-3981. Spend 5-10 minutes with a CCO representative for a resume or cover letter review, CCO Express assistance, and other career related questions.

Outstanding Teacher Award 2013
Has one teacher in the College of Science sparked your interest in a subject or simply done an outstanding job in a course you've taken? Take a few moments to show your appreciation to that outstanding Purdue faculty member by nominating them for the College of Science Outstanding Teacher Award. The top 10 nominations for the Outstanding Teachers will be honored at the Science Honors Convocation this April.

Thank you for taking the time to nominate a faculty member. It is important for them to be recognized by their students for their hard work and dedication.

1) Go to http://web.ics.purdue.edu/~pssc/ota.php
2) Enter your full name
3) Enter your PURDUE email address
4) Enter your favorite professor teaching a SCIENCE (includes math) class

Information: (NOTE: Only 1 vote per student. Violators’ votes will not count.)

Summer Program in China
Professor Chad Jafvert (CE) is leading a program this summer called Chemical Principles in Environmental Engineering-Water Issues in China. An attached flyer has the itinerary and related information. The cost will be approximately $4600 total which includes all meals, air, excursions, trains, food, class, Visa, etc. Personal spending not included in this estimate. Dates of the program are 06/19/13 - 07/12/13.

March at Purdue
March is Women’s History Month. On Friday, March 22 from 10:30 am to 2:00 pm there will be a march in commemoration of 100 years of public action aimed at democratizing our society. Among other anniversaries, the March at Purdue will recognize the 100th anniversary of the historic parade to demand the right to vote for women. In March 1913, over 500 women and their allies marched on Washington in a cross-class, forcibly desegregated display, to demand an amendment to the U.S. Constitution granting women the right to vote. You can watch a fun, less than 3 minute video to learn more about the women’s suffrage protest march and the various marches since then: http://www.youtube.com/watch?v=AVmyd_rXBog

You can join the College of Science delegation simply by filling out this short survey: https://purdue.qualtrics.com/SE/?SID=SV_0oojXkkjoup7rU1

Summary information:
What: March at Purdue, celebration 100 years of positive public action
When: March 22, 10:30 am – 2 pm (you don’t have to be there the whole time)
Where: Beginning and ending at the Co-Rec with a marching route around campus and a rally
Who: Opened to everyone in the College of Science - male, female, faculty, staff, and students
How to sign up: Complete short survey above to give us your contact information
http://www.tumblr.com/blog/marchatpurdue
https://twitter.com/MarchAtPurdue

March Birthdays
Elizabeth McNie – 11\textsuperscript{th}
Greg Michalski – 17\textsuperscript{th}
Larry Braile – 21\textsuperscript{st}
Megan Sapp Nelson – 24\textsuperscript{th}
Joseph Francisco – 26\textsuperscript{th}
Dongbin Xiu – 27\textsuperscript{th}
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 www.purdue.edu/eas/ and Click on News to access active links as needed. Material for inclusion in the newsletter should be submitted to Wanitta Thompson (thompsow@purdue.edu) by Friday noon 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.purdue.edu/eas/info_tech/index.php.

Also, as an additional resource for information about departmental events, seminars, deadlines, etc., see our departmental calendar at http://calendar.science.purdue.edu/eas/seminars.
The College of Engineering invites you to attend

PROVOCATIVE CONVERSATIONS ON THE FUTURE OF HIGHER EDUCATION

DISTINGUISHED SEMINAR SERIES

Tuesday, March 5, 2013

Jim Duderstadt
President Emeritus, University of Michigan

“THE FUTURE OF THE AMERICAN RESEARCH UNIVERSITY”

3:30 p.m. seminar
4:30 p.m. reception

NEIL ARMSTRONG HALL OF ENGINEERING, KURZ ATRIUM
701 W. STADIUM AVENUE
WEST LAFAYETTE, IN
Please join us for a live-stream viewing of the:

Nobel Peace Prize Forum Panel

“Food Security = World Security”

Friday, March 8th, 2:30 PM – 4:30 PM
Deans Auditorium in Pfendler Hall
Refreshments Provided

Hosted by the Purdue Center for Global Food Security
Sponsored by Land O’Lakes, Inc.

Panel Members:

Chris Policinski
President and CEO, Land O’Lakes, Inc.

David MacLennan
President and COO, Cargill

Jeff Simmons
President, Elanco

Panel Moderator: Frank Sesno
Director, School of Media and Public Affairs
The George Washington University

The Food Security = World Security Panel is part of the 25th Annual Nobel Peace Prize Forum. This international event will bring together business, civic and thought leaders to address the critical global issues of food security and its direct relationship to world security. Please join us for a live-stream of the panel, followed by a discussion with Purdue faculty and students on the observations and recommendations made by these global decision-makers.

For More Information:
foodsecurity@purdue.edu
www.purdue.edu/discoverypark/food
www.facebook.com/pcgfs
Purdue University
Discovery Park
April 25-26, 2013
9 a.m. - 3 p.m.

Engage future nanoscientists!

NanoDays™

Educational Activities About Nanoscale Science and Engineering For Students in Grades K-12

Volunteer today at the website below.
nano.purdue.edu/nanodays

The first 100 volunteers to participate in NanoDays will receive a free t-shirt!
CALL FOR PRESENTATIONS
Purdue Geotechnical Society Workshop
and the
11th G.A. Leonards Lecture:
“Organoclays: Novel Barrier Media for Managing Groundwater Flow and Transport at NAPL-Contaminated Sites”
Prof. Craig H. Benson
University of Wisconsin-Madison
Friday, April 19, 2013, Krannert Auditorium, Purdue University, West Lafayette, IN

Registration required for workshop and banquet; lecture at 4:30p.m. free & open to the public.

Geotechnical Workshop
“Soilmakers: Engineering Soil for Geoenvironmental Applications”
8:00a.m.-4:00p.m, Purdue Memorial Union

Presentations are invited on soil modification techniques for addressing environmental problems, as well as related analysis, experimentation and field experience.

The concept of the workshop is of an informal forum where engineers, students, and faculty can interact and discuss matters of common interest. Members as well as non-members of the PGS are welcome. The goal is for all participants to share their professional experience through open dialogue and fruitful debate. Short presentations (20 minutes max.) will be scheduled with additional time for questions/discussion. The emphasis is on oral presentations and debate; no written papers will be required, nor proceedings published. Participants will receive abstracts at the meeting and have the opportunity to post highlights of their own presentation on the PGS Web site after the workshop.

Topics of interest include, but are not limited to:

- Analysis & simulation
- Ground modification
- Recycled materials
- Brownfields
- Impact on tomorrow’s practice
- Seepage control
- Business practices
- Instrumentation and sensors
- Site assessment
- Case histories
- New technology assessment
- Site remediation
- Contaminant barriers
- Porous- and biomaterials
- Smart materials
- Field testing
- Quality control
- Waste containment

For more information contact Philippe Bourdeau at bourdeau@ecn.purdue.edu

INTENTION TO MAKE A PRESENTATION:
Send an e-mail message and abstract to pgs@ecn.purdue.edu giving the following information by Friday, February 22:
Title of Presentation:

Abstract (Max. 300 words):
The NASA Langley Research Center (Hampton, VA) offers paid, year-round (3 sessions), highly competitive research internships for exceptional students to work with Langley engineers and scientists on some of the Nation’s most important, difficult, and challenging problems. The LARSS program emphasizes multi-disciplinary and collaboratively developed solutions to problems in such broad areas as (1) flight, including entry, descent, and landing, in all atmospheres; (2) Earth systems science, including the characterization of all atmospheres; (3) affordable, safe, and sustainable space exploration systems and technology; and (4) materials and structural concepts, analysis, and integration.

ELIGIBILITY REQUIREMENTS

- U.S. Citizenship
- Full-time student status at an accredited U.S. college or university
- Classification as a rising undergraduate junior or senior, or graduate student (master's or doctoral level)
- Cumulative 3.0 GPA on a 4.0 scale

PROGRAM SESSION DATES

  Application Deadline: Oct. 11, 2012
- 2013 Summer Session (10 weeks) June 4 – Aug. 9, 2013
  Application Deadline: Feb. 1, 2013
- 2013 Fall Session (15 weeks) Sept. 4 – Dec. 13, 2013
  Application Deadline: June 26, 2013

CONTACT INFORMATION

Debbie Murray
LARSS Program Coordinator
Phone: 757-864-5215
Fax: 757-864-9701
Deborah.B.Murray@nasa.gov

Find additional LARSS information, application, and deadlines at http://www.nianet.org/larss
Dear Colleagues:
The US Department Energy’s Geothermal Technologies Program and Oak Ridge Institute for Science Education are pleased to announce the 2013 Geothermal Student Competition.

**The Challenge:**
The Competition seeks to engage students in a collaborative exercise to develop a business plan for developing a geothermal enterprise. Applicants are encouraged to consider a candidate resource in their home state/region, though convincing plans for any domestic target will be considered.

**Who Should Apply?**
The Competition is open to undergraduate and graduate students in science, engineering, and business programs of study.

**Where do I Apply?**
The Competition application, guidelines, and further details can all be found on the Competition website [http://orise.orau.gov/geothermal](http://orise.orau.gov/geothermal)

**How does the Competition work?**
Students will prepare a concept paper with the guiding topic: Innovative geothermal project proposal (related to electricity production—not primarily to direct use applications although these may be combined with electricity production) in your selected locale. Students are required to show evidence that existing data, or new data was used to support their approach. The seven most compelling and competitive applications will be selected through a screening process described in the evaluation section of this document.

**Seven Semi-Finalist Awards**
Each Semi-finalist will receive a total award of $5,500, where $5000 is expected to be used as planning funds (stipend) and $500 is to be used to startup a geothermal club on your campus

For more information please contact Dr. Desmond Stubbs, Program Manager by email: [geothermalstudentcompetition@orise.orau.gov](mailto:geothermalstudentcompetition@orise.orau.gov)

We look forward to receiving highly competitive and innovative ideas from your students!

Regards,
Desmond Stubbs, PhD
4th Annual
Midwest Graduate Research Symposium

Saturday
April 20, 2013
8:00 A.M. – 7:30 P.M.

FREE

*Awards for both oral & poster presentations*

Nationaly Recognized Keynote Speaker

*Sponsored and Organized by the University of Toledo Graduate Student Association*

- No registration fee
- Breakfast, Lunch, and Dinner Provided
- Semi-Formal Dinner
- Oral & Poster Presentation
- Great Networking Opportunity
- Awards for both oral & poster presentations

Registration Deadline: March 29, 2013

- Register for free online by visiting www.utoledogsa.com → Participant Registration
- For complete information, visit: www.utoledogsa.com/information

E-mail: graduatestudentassociation@gmail.com

*Open to All Graduate Students from All Study Areas*
Call out for oral presentations and posters

Who can present? **Undergraduate** and **graduate** students doing computational research in **ANY** field.

**Monetary awards** for 1st, 2nd, and 3rd place oral and poster presentations.

Absolutely **FREE**!

**Coffee breaks and lunch** included for enrolled participants!

Special Keynote speakers

**Kurt Bryan**
Professor of Mathematics at the Rose-Hulman Institute of Technology

**Mark Lundstrom**
Don and Carol Scifres Distinguished Professor of Electrical and Computer Engineering at Purdue University

**Juan Wachs**
Assistant Professor in the Industrial Engineering School at Purdue University

**Deadline for Abstracts March 18th, 2013**

**Registration and Abstract Submission:**

http://cse2013.wordpress.com/
Are you ready for the experience of a lifetime?

College of Engineering

Maymester Abroad Callout
Tuesday March 5\textsuperscript{th}, 7-8 pm, HAMP (CIVL) 2101

Free \textbf{Insomnia Cookies}!

Study Abroad with:

\textit{Engineering Cultures of East Asia or Chemical Principles in Environmental Engineering}

All engineering students welcome as well as Chemistry, Agronomy, Biology, and EAS!
Tentative Itinerary for Summer 2013 EEE Course in China

Chemical Principals in Environmental Engineering – Water Issues in China

Instructor: Prof. Chad Jafvert, School of Civil Engineering and Division of Environmental & Ecological Engineering, Purdue University, West Lafayette, IN, 47907, USA

Course #: SA 10516 (3 credits)

Dates: 6/19/13 – 7/12/13


June 22-23. Stay 2 nights in Suzhou. Guide provided by SEU. On June 21 visit Zhouzhuang, China’s No. 1 Water Town. Visit the Garden in the Water Town. On June 22, visit another famous garden in Suzhou (Master of Nets Garden), the silk weaving factory, and possibly a temple. Leave on the 23rd for Yixing.

June 23. Visit the old pottery village, the fishing village, and Baina Environmental Company. Visit the bamboo forest on the 24th. Leave on June 24 for Nanjing.

June 24-26. Arrive in Nanjing on June 24, and stay 3 nights. Visit the City Wall, visit the Presidential Palace, Dr. Sun Yat-Sen’s Mausoleum, and other sites. Stay in student dorm at SEU. Leave on June 27th for Beijing.

June 27. Take high-speed train from Nanjing to Beijing. June 28-30 - Sight-seeing and Cultural Activities in Beijing. Guide provided by SEU to visit: (1) Great wall, (2) Forbidden City, and (3) Tianman square.

July 1. Attend Conference in Beijing on Storm-water runoff and other environmental topics. Evening of July 1st, students will take the high-speed Train back to Nanjing. Stay in the dorm at SEU.
July 2-4.  Conference continues in Nanjing.

July 5-10. Class with Dr. Jafvert at SEU with undergraduate students at SEU.  Students remain at SEU -Old Campus.

July 11.  Students depart for Shanghai via high speed train in early morning, take subway from train station to Airport, and depart for Chicago by air in the afternoon.


Lecture Schedule on July 5-10 (2 hour lectures, 1 hour help session on daily homework):

Day 1:  Introduction, species and components, mass action and mass balance equations  
Assignment: Quiz next day on 30 species in water

Day 2:  Acid-Base Calculations,  Assignment: Graphical solution to pC-pH problems

Day 3:  The Carbonate System: Defining H$_2$CO$_3$*, titration curves, buffer capacity  
Assignment: Solving Acid-base Equilibrium problems in Excel (Solver)

Day 4:  Complexation and Precipitation  
Assignment: Hydroxy-metal speciation as a function of pH (in Excel)

Day 5:  Review of Redox Reactions, Review of Example Problems for Exam  
Assignment: Study for Exam

Day 6:  Exam

Course Objectives:  Students completing this short course will:
1. Know how to develop and solve systems of chemical mass action – mass balance equations.
2. Know how to develop graphical and spreadsheet tools used in solving these systems of equations.
3. Develop an appreciation for the extent to which these chemical principles are beneficially exploited in engineered environmental systems.
4. Develop an appreciation for and awareness of China’s history, culture, and environmental issues, especially those related to water pollution.

Evaluation:  Students will be evaluated on an essay completed after their return from China, their participation in activities during the trip (including the conference), and by their performance on daily homework given during the week of Lectures, and an exam.  Homework will be due at the beginning of the next day’s lecture.