Upcoming MEETINGS

Monday, September 24, 1:00, HAMP 2201
Gold Team Mtg

EAPS SEMINAR

Thursday, September 27, 3:30, HAMP 1252
Julie Elliott, Cornell University.

EAPS Special SEMINAR

Friday, October 5, 9:00, HAMP 2201
(See attached for more information)

EAPS WEATHER BRIEFING MEETING
Every Monday, Wednesday & Friday,
1:00 pm, HAMP 4173

EAPS PhD DEFENSE

Friday, September 28, 5:00pm, HAMP 3201:
“Geochemical Indicators of Early Paleogene Climate Change in Central Utah,” Justin VanDeVelde; Gabriel Bowen, Matthew Huber, Brenda Bowen & Francesca Smith, Committee.

CAMPUS-WIDE SEMINARS & EXPOS

Entrepreneurship @ Purdue Roundtable
Tuesday, September 25, 5:00-6:30 pm, RAWL 2070
(See flyer for more information)

2nd Annual Global Design Team Exposition: Thursday, September 27, ARMS Atrium, 11:30am-4:30pm
Global Design Teams (GDT) are international service-learning projects that offer cross-cultural interaction and practical design experience by developing sustainable technologies for real-world application. Teams work with international partners over the course of a semester for academic credit to identify and address challenges.
For more information:
https://engineering.purdue.edu/GEP/News/Spotlights/global-design-teams-exposition

---

A Symposium On The Intersection Of Literature, Mathematics, And Physics. BORGES AND THE SCIENCES, Wed. Oct. 3, 2012, STEW 214 ABCD, 9:30 am–12:00 pm; 1:30 pm–4:00 pm; Free Event, All Welcome.
http://masters.krannert.purdue.edu/borges-symposium/

URBAN RISE: Footprints of a Global Civilization, Ecological Sciences and Engineering (ESE) Symposium 2012, Oct. 16-17, Discovery Park
(See attached flyer for questions and registration)

EAPS ALUMNI EVENTS

Monday, November 5th – Border Grill, Mandalay Bay Resort and Casino, Las Vegas from 6 – 9 pm
(See attached flyer for this event)
Wednesday, December 5th – ThirstyBear Brewing Company, San Francisco from 7 – 9 pm

WABASH RIVER ENHANCEMENT CORPORATION

Fall Wabash Sampling blitz, Friday, Sept. 28, 2012.
Click link for more details and to register:
http://www.wabashriver.net/

PGI/All Universities Annual Field Trip
Saturday, October 13, 2012
Cave and Karst Hydrology, Monroe and Lawrence Counties
(See attached for detailed information)

PURDUE - VPR Internal Funding Opportunities

The research equipment and incentive grant programs can be found at:
http://www.purdue.edu/research/vpr/rschdev/fund_main.php
NSF “East Asia & Pacific Summer Institutes” (EAPSI) US GRAD STUDENTS

The National Science Foundation’s “East Asia & Pacific Summer Institutes” (EAPSI) for US graduate students pursuing science and engineering.

The goals of the EAPSI program are to provide students with first-hand research experiences in Australia, China, Japan, Korea, New Zealand, Singapore or Taiwan towards an introduction to the science, science policy, and scientific infrastructure of the respective location plus an orientation to the society, culture and language. The primary goals of EAPSI are to introduce students to East Asia and Pacific science and engineering in the context of a research setting, and to help students initiate scientific relationships that will better enable future collaboration with foreign counterparts.

http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5284

There are scores of host universities, some which are Purdue partners. The direct link follows for convenience.

http://www.nsf.gov/od/oise/eapsi-host-lists-all.jsp

Please note that Cyndi Lynch, PU Grad School, is the coordinating official for this program. The application deadline this year is Nov. 8, 2012.

Environmental Geologist / Environmental Scientist / Soil Scientist – JOB OPENING

Troy Risk, Inc. is seeking a qualified geologist or environmental scientist or soil scientist to perform field work and reporting activities associated with soil and groundwater investigations and remediation. The successful candidate will have one to three years of field work experience in subsurface environmental investigations. Experience with LUST sites and site characterization using Indiana’s RISC program is preferred.

(See attached flyer for more information)
A Note from Our Academic Counselor

**International Students Clinic - Job Search in the U.S.**

**Tuesday, Sept. 25 - 6:00 - 7:00 PM - PHYS 223.** This workshop is designed specifically for international students and is co-sponsored by the Office of International Students and Scholars.

**Advance Yourself - Graduate and Professional School Fair**

**Thursday, Sept. 27, 9:00 AM - 5:00 PM; PMU West Lobby & Lafayette Room.** A graduate and professional preparatory program that brings together professional recruiters and admissions counselors from across the U.S. and undergraduate students interested in pursuing advanced education. If you are an undergraduate student interested in the next degree, please consider this event.

**Education Majors – Maymester 2013**

Block II Study Abroad Callout - Free Pizza!!! **Thursday, Sept. 27, 5:00 PM in BRNG B212.** This will cover both Block II courses - EDPS 235 and EDPS 265, and the program will include several school visits covering a broad spectrum of private, public, and NGO schools. Contact Dr. Aman Yadav (amanyadav@purdue.edu) for more information.

Block I Maymester in Honduras Callout – Pizza and Soft-drinks - **Monday, October 1 from 5:30-6:30 PM in BRNG 1284.** This will cover the 6 credits of EDCI 205 and EDCI 285 and provide the opportunity to teach students in bilingual schools and visit historic sites.

**Purdue Journal for Undergraduate Research**

“Involved in undergraduate research? Interested in having your research findings published? The Journal of Purdue Undergraduate Research (JPUR) is preparing for its third publication and wants to help you write an abstract to submit for publication. On **October 17 in HICKS B848 join them for the “Writing Winning Proposals” workshop; pizza and soda are provided. Email Journal Coordinator Elizabeth Hudson at jpur@purdue.edu with any questions or visit www.jpur.org to learn more about the journal.”** The next publication submission deadline is **Nov. 15, 2012.** (See flyer)

**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 EAS website at [www.purdue.edu/eas/](http://www.purdue.edu/eas/) and Click on News to access active links as needed. Material for inclusion in the newsletter should be submitted to Waniita Thompson (thompsonw@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 EAS Technology Support staff, please visit [http://www.purdue.edu/eas/info_tech/index.php](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](http://calendar.science.purdue.edu/eas/seminars).
Common wisdom holds that, in order for a terrestrial planet to have life, it's helpful to have a Jupiter-like planet in the system to shield against inbound comets. How well does Jupiter do that really? Common wisdom held, until recently, that it would be impossible for an icy object like Ceres to exist within the inner Solar System. From where did the ice come? Common wisdom held, until recently, that the Centaur asteroids and Kuiper Belt objects were dynamically distinct. Are they?

Much of our understanding of the dynamical evolution of the Solar System stems from long-term computational simulations of planet and planetesimal evolution—simulations that model orbital evolution over millions, even billions, of years. We first describe a multistep scheme that achieves the theoretical lower bounds for the propagation of error over long simulations intervals and integrates close encounters very accurately. We then present a summary of our investigation into three different early Solar System scenarios: whether Jupiter protected Earth from asteroids in the early Solar System, the icy nature of Ceres, and the interrelation between Centaur Asteroids and the Kuiper Scattered Disk.
Come join us at the Entrepreneurship @Purdue Roundtable

Tuesday September 25th
5PM-6:30PM in RAWL 2070

- Learn more about Entrepreneurship
- Develop your professional network
- Learn more about campus resources
- Listen to and talk to expert speakers

Speakers Include:

Mr. Paroon Chadha, Co-founder, Passageways and Krannert alumnus

Dr. Rick Cosier, Director, Burton D. Morgan Center for Entrepreneurship

Ms. Elizabeth Hart-Wells, Assistant Vice-President and Director of the Office of Technology Commercialization

Dr. Gerry McCartney, CIO and Vice President for Information Technology, and Inaugural Director of Purdue Innovation and Commercialization Center

Mr. Tim Peoples, Director, Purdue Research Foundation

Please reserve your spot at:
bit.ly/Qmk2hM or scan the barcode

Food and drinks will be provided!
This event is open to all members of the community

For more information please contact:
Brian Precious bprecious@purdue.edu
Ecological Sciences and Engineering (ESE) Symposium 2012

URBAN RISE: Footprints of a Global Civilization

October 16-17 at Discovery Park

- Keynote Dinner and Address from John Francis, PhD – Visiting Associate Professor, The Nelson Institute at the University of Wisconsin-Madison
- Undergraduate and Graduate Student Poster Competition (With Cash Prizes)
- Plenary Speaker, Dr. Steve Hallett, Botany & Plant Pathology, Purdue
- 3 Technical Session

Registration Now Open at [www.purdue.edu/esesymposium](http://www.purdue.edu/esesymposium)

*Free to attend and participate but space is limited, so register today!*

Abstract Submission Deadline: September 24, 2012  **Deadline Extended – October 5, 2012**

Questions? Please contact us at [eseevent@purdue.edu](mailto:eseevent@purdue.edu)
The reception will be from 6:00 – 9:00 p.m. at the Border Grill, Mandalay Bay Resort and Casino, 3950 Las Vegas Blvd. South, Las Vegas, Nevada 89119 (702) 632-7200. You do not need to register for the SEG meeting in order to attend. The reception is being sponsored by SAGE and the Department of Earth, Atmospheric, and Planetary Sciences, Purdue University.

We welcome SAGE students, former students, SAGE supporters, and friends of SAGE. Please join us to celebrate the 30th year of SAGE! We also welcome Purdue EAPS faculty, students and alumni, and friends of Purdue EAPS.
PGI/All Universities Annual Field Trip

October 13, 2012

Cave and Karst Hydrology
Monroe and Lawrence Counties

There is no fee for the field trip & Lunch will be provided

Please RSVP to Jeff Grigsby at jgrigsby@bsu.edu by Wednesday October 3rd if you plan to attend with your total number of attendees so we can arrange for enough lunches. Please note if you need a Vegetarian lunch.
There is a $5.00 entrance fee per vehicle at McCormick’s Creek State Park and Spring Mill State Park. An annual pass can be purchased for $36 or $18 for those over 65. If you are not camping, you will only have the $5.00 fee at Spring Mill State Park. This might be $2.00 per person if in a passenger van.

Primitive Camping is available at McCormick’s Creek State Park – contact McCormick’s Creek State Park (812) 829-2235 to reserve your site.

A group will depart from McCormick’s Creek State Park at 8 AM. Meet on the street outside the main gate. The remainder of the group will meet at the Richard Blenz Nature Preserve (Stop #1 on the trip) at 9AM. A liability waiver is required to enter the Preserve. This waiver is available on the Preserve website or at the end of the road log.

Basic directions to the Blenz Preserve From interchange of Highways 37 and 45 in Bloomington:
- Take Highway 45 south 2.8 miles and turn left on Eller Rd.
- Follow Eller Rd 1.5 miles to intersection with Garrison Chapel Rd.
- Continue straight 0.7 miles to the end of the road. The gate to the property will be on the right.

Whether leaving from McCormick’s Creek or meeting at the Blenz Preserve, be sure to be at the Preserve by 9AM. Light breakfast will be offered at the Preserve and a box lunch will be provided at Spring Mill.
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
College Teaching Workshops — Series I: Building on the Basics

For Faculty, Staff and Graduate Students
Take one, several, or the entire series!

Student-Teacher Relationships
Strategies you can use to foster good relationships with your students. Common disruptive student behaviors, and techniques for handling classroom crises.
Tuesday, September 4, 9:00-10:30 am - POTR 141

The Nuts & Bolts of Setting Rules for Your Course
Key University policies that relate to teaching at Purdue, including how to create an attendance policy, handle make-up work, and avoid grade appeals.
Tuesday, September 11, 9:00-10:30 am - POTR 141

Designing a Course From Scratch
The basics of designing a course from scratch using course goals and objectives, activities to meet your objectives, and measurements to see if your students have achieved them.
Tuesday, September 18, 9:00-10:30 am - POTR 141

Getting Feedback to Improve Your Teaching
Ways to get feedback from your students that will improve learning, tweak your teaching, and teach your students to take responsibility for giving people feedback.
Tuesday, October 16, 9:00-10:30 am - POTR 141

Creating the Engaged Classroom: Discussion Techniques
Engaging your students in the learning process using think-pair-share, group discussions, and small group work.
Tuesday, October 23, 9:00-10:30 am - POTR 141

Tools and Techniques for Creating Effective Tests
How to avoid writing test questions that your students might consider to be "picky," "tricky," or "ambiguous." What goes into making a good test, and how tests can be used to enhance student learning.
Tuesday, October 30, 9:00-10:30 am - POTR 141

Why Didn’t I Get an “A”? Using Subjective Tests and Assigning Grades
The benefits and challenges of using (and grading) subjective tests. Practice creating a rubric to use when grading student projects.
Tuesday, November 6, 9:00-10:30 am - POTR 141

Are Your Students Cheating?
How to Prevent and Respond
Ways to prevent academic dishonesty (and other academic integrity issues) and find resources to deal with a cheating incident should one occur.
Tuesday, November 13, 9:00-10:30 am - POTR 141

Register for Series I Workshops — click on title
Everything You Need to Know About Teaching According to Tom Turpin

*Thursday, September 6, 2012*

9:00 – 10:30 a.m.

*Dean’s Auditorium, Pfendler Hall, room 241*

He didn’t know it at the time, but growing up on a Kansas farm gave Tom Turpin his personal perspective on teaching. We’ve asked Tom, an award-winning instructor, to share his insights on how some of the rules associated with agriculture apply to teaching.

Here are a few things to expect:

- Farmers who raise livestock don’t run the barnyard as a democracy.
- Sometimes animals need incentives to do what you want them to do.
- Some animals will test the electric fence every day to make sure it’s working.

Pursuant to this “farm” theme, there will be a drawing for everyone present to receive a basket full of farm produce. The runner up will receive a dozen fresh eggs.

Alan Alda’s Tips for Translating Technical Information

*Thursday, September 20*

9:00 – 10:30 a.m.

*STEW 322*

Linda Mason, professor of Entomology and Associate Dean of The Graduate School
Anne Fliotsos, professor of Visual and Performing Arts

After ending his popular TV series MASH, Alan Alda became interested in science. Specifically, in how science teachers can better communicate their subject matter with lay audiences and students. Toward that end, he established the Center for Communicating Science in Washington DC and runs seminars to teach scientists (and science educators) how to make themselves better understood.

Linda Mason had the chance to attend Alda’s seminars last summer and has agreed to share some of the techniques and skills she learned. The program is important to Purdue instructors because it’s designed to help students improve their writing and oral communication skills.

In this workshop, and assisted by Anne Fliotsos from the Theatre Department, Linda will explain the concept behind this program and will get us all to “loosen up” by doing some low-risk improvisational exercises.
Join Shell and Purdue for a series of discussions that will explore the challenges and opportunities we face in our attempt to meet the world’s growing need for energy through natural gas and renewable energy sources.

**Date:** Thursday, September 27, 2012  
**Location:** Pfendler Hall 241, Dean’s Auditorium

**Schedule:**
- 7:30am – 8:00am  Registration
- 8:00am – 8:15am  Opening Remarks
- 9:15am – 10:15am  Panel Discussion: “Keystone Pipeline/Shale Oil Sands”
- 10:30am – 11:30am  Panel Discussion: “Fracking”
- 12:00pm – 1:00pm  Shell Careers Presentation (Pizza and Soft Drinks Provided)
- 1:00pm – 1:30pm  Open Networking
- 1:30pm – 3:30pm  Energy Poster Session and Prize Presentation (registration required)

Panel speakers include senior leaders from Shell and Purdue faculty. A networking lunch and careers presentation will offer students the chance to meet with Shell recruitment staff to learn more about scholarships, internships, and career opportunities.

To see a full list of speakers and to register, visit [www.purdue.edu/dp/shell2012](http://www.purdue.edu/dp/shell2012). Seats are limited, so register by September 24th.

**Let’s deliver better energy solutions together.**
Shell Oil Company

Mark Davidson, Shell Oil Company, will be on campus September 25 and 26 to interview M.S. and Ph.D. Geology, Geophysics, and Geomatics students. Please see Kathy Kincade, 2169D/HAMP to sign up for an interview. Prior to your interview, please upload your resume to www.Shell.com. Mark will not take your resume at the time of the interview, but you can bring one along for discussion if you would like.

On the evening of Tuesday, September 25, Mark will hold a meet-n-greet in Room 2201/HAMP at 5:00pm. Food provided. To make sure enough food is ordered, please let Kathy Kincade (kkincade@purdue.edu) know by Friday, September 21, if you plan to attend.

In addition, Mark invites all interested graduates and undergraduates to attend Shell Energy Day on Thursday, September 27 (see flyer for additional details). To see a full list of speakers and to register, visit www.purdue.edu/dp/shell2012. Seats are limited, so register by September 24th.
ExxonMobil will interview students interested in petroleum geoscience-related careers in these areas:

| Exploration | Development | Production | Geophysics Specialties | Research |

Applicants are required to fill out an online application and post a copy of their resume on our website one week prior to interviewing with our campus recruiter. **We do not accept hard copy applications.** Copies of transcripts should also be posted on the website or brought to the interview. At this stage of the process, "unofficial" school versions of transcripts will be accepted as attachments to the online submittal. The ExxonMobil website is [www.exxonmobil.com/apply](http://www.exxonmobil.com/apply).

The recruiters will conduct a pre-interview presentation on October 18 at 5:00pm in Room 2201/HAMP.

**Candidates for Regular Employment:**

For those interested in careers in Exploration, Development and/or Production, we will be interviewing graduate students receiving a MS or a PhD degree in Geology or Geophysics. In addition, we will be interviewing graduate students who are interested in geophysics specialties such as seismic acquisition or processing, and working with specialty applications (velocity models, seismic attribute analysis, AVO analysis, etc.).

For those interested in careers in Research, we will be interviewing graduate students receiving a PhD degree and post-doctoral fellows in the following areas: Geology, Geophysics, Math, Electrical Engineering, Physics and Computer Science.

**Candidates for Internships:**

We are very interested in interviewing students who meet the following requirements:

- Will be completing their MS or PhD degree program within one year (two years for research) after their internship.
- Ability to work approximately three months.

Internships are available throughout the year. Although we will give preference to those students graduating in 2013 or 2014, we will be happy to discuss career opportunities with other students as the interview schedule permits.

**ELIGIBILITY INFORMATION APPLICABLE TO CANDIDATES FOR REGULAR AND INTERNSHIP EMPLOYMENT**

Applicants must have the right to work in the United States. Under certain circumstances, visa sponsorship may be available for applicants with an M.S. and/or a Ph.D. degree in certain research or geophysical specialty disciplines. If you fit the above criteria and are interested, please utilize the [www.exxonmobil.com/apply](http://www.exxonmobil.com/apply) website for your application and/or ask one of our campus recruiters for specific details.

Applicants for internship must have the legal right to work in the U.S. during the period of the internship. If you are interested in regular U.S. employment after your internship, you must be able to meet the regular U.S. hiring criteria at the time of regular U.S. hiring.

Individuals who have authorization to work in countries where ExxonMobil has geoscience staff such as Angola, Nigeria, Europe, Malaysia, Indonesia, Russia, and the Middle Eastern countries, may be considered for employment by our affiliates in these locations and should sign up to interview for such employment. Students currently attending school in the U.S. who are authority to work in one of the above countries and are interested in these opportunities should utilize the [www.exxonmobil.com/apply](http://www.exxonmobil.com/apply) website.

**ExxonMobil is an Equal Opportunity Employer**
Troy Risk, Inc. is seeking a qualified geologist or environmental scientist or soil scientist to perform field work and reporting activities associated with soil and groundwater investigations and remediation. The successful candidate will have one to three years of field work experience in subsurface environmental investigations. Experience with LUST sites and site characterization using Indiana’s RISC program is preferred.

Troy Risk’s environmental scientists, geologists and engineers provide comprehensive environmental consulting, engineering and contracting services for assessment and remediation of real property. Troy Risk’s environmental experts investigate and cleanup contaminated soil and groundwater, audit compliance with environmental regulations and find solutions to environmental problems affecting real estate. Our website describes the company and practice areas: www.troyrisk.com.

Minimum qualifications for this position:

- Bachelor of Science or Masters degree in Geology, Environmental Science, Environmental Engineering, Soil Science (or similar field).
- Experience with groundwater monitoring well sampling methods required.
- Soil sampling and soil description experience including the collection and description of macro-core soil samples and hand auger samples is necessary.
- Experience with groundwater monitoring well installation using hollow stem auger and/or Geoprobe.
- Proficient report writing skills and drafting experience using Autosketch is important.
- Sediment, surface water, air, and biota sampling experience also help

Some overnight domestic travel is required, but such travel is not expected to exceed 20% of field time.

Benefits package includes Anthem health care, 401(k), quarterly bonus, training or professional development, company vehicle use or mileage benefit, two weeks vacation and at least 7 holidays per year.

If interested, contact:

Don Neeley, LPG, CHMM
Troy Risk, Inc. | 7466 Shadeland Station Way, Indianapolis IN 46256-3925
Phone (317) 570-6730 x23 | Fax (317) 570-6731 | Mobile (317) 696-8096
ATTENTION ALL UNDERGRADS!

Doing research? Want to get published?

WRITING WINNING PROPOSALS

- A call-out and abstract-writing workshop for anyone interested in submitting an article proposal for the Journal of Purdue Undergraduate Research (JPUR).

- Learn about JPUR, the submission process, and the benefits of publishing your research.

- Have you been thinking about submitting, are just getting started, or want some feedback on your draft? Get practical tips, receive one-on-one consultation, and leave with a draft in hand.

Wednesday, October 17
5:30–6:30 p.m.
HIKS B848

FREE PIZZA AND SODA!

www.jpur.org