The Weekly News

Upcoming MEETINGS

Monday, September 10, 9:00 – 10:15, HAMP 2201
MASSIMO BOLLASINA, PCCRC candidate, “The SouthAsian summer monsoon: an ideal test bed for investigating physical processes and feedbacks in the climate system.”

Monday, September 10, 1:00, HAMP 2201
Gold Team Meeting

Monday, September 10, 6:00 – 7:00, HAMP 2201
Chevron Information Session

Tuesday, September 11, 11:30, HAMP 2201
Graduate Committee Meeting

Tuesday, September 11, 3:00 – 5:00, HAMP 3201
EAPS Faculty Meeting

Wednesday, September 12, 3:00 – 4:00, HAMP 2173
Sponsorship Req. GIS Day at PU

Thursday, September 13, 2:00 – 3:30, Patio outside (HAMP 2201 in case of rain)
PUMA/PUGS Ice Cream Social

Thursday, September 13, 4:30 – 7:00, HAMP 220
Chesapeake Info Session

Friday, September 14, 9:00 – 10:30, HAMP 2201
PCCRC Search Committee Mtg.

Friday, September 14, 4:00 – 8:00, HAMP 2201
GK-12 – Faith Weeks

EAPS WEATHER BRIEFING MEETING

Every Monday, Wednesday & Friday, 1:00 pm, HAMP 4173

EAPS SEMINARS

Thursday, September 13, at 3:30 pm in HAMP 1252
“Getting Rocks from the Surface to the Bottoms of Mountains and Back Again,” Christopher Andronicos

CAMPUS-WIDE SEMINARS

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, Ecomological 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

RECENT EAPS PUBLICATIONS, PRESENTATIONS & AWARDS

Prof. Alex Gluhovsky gave a talk entitled “Analysis of Time Series Generated by Low-Order Models of Atmospheric Dynamics” at the 2012 Joint Statistical Meetings held July 28 – Aug. 2 in San Diego, CA.

WABASH RIVER ENHANCEMENT CORPORATION

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

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

GSA-USGS Congressional Science Fellowship
2013-2014 - Call for Applications
(See attached flyer)

GSA – Scientific Meetings & Events
(See attached flyer)

PURDUE - PLM Center of Excellence Seed Grants: Request for Proposals

The Product Lifecycle Management (PLM) Center of Excellence is now soliciting seed grant proposals for the 2013 calendar year. Industrial Advisory Board Partners (review committee): Boeing, Cummins, General Motors, Gulfstream, Rolls-Royce, Sandia National Labs

Center Directors:
- Nathan Hartman – College of Technology
- Voicu Popescu – College of Science
- Fu Zhao – College of Engineering

Key dates:
- Friday September 28, 2012 - Proposals due
- Monday October 15, 2012 - Proposals reviewed and awarded

Questions: Please contact Steve Shade (sashade@purdue.edu, 4-5183)
(See attached for more details)

ATTENTION FACULTY
Selected Funding Opportunities

NSF Science, Engineering, and Education for Sustainability (SEES) Fellows The Program’s emphasis is to facilitate investigations that cross traditional disciplinary boundaries and address issues of sustainability through a systems approach, building bridges between academic inquiry, economic growth, and societal needs. The Fellow's proposed investigation must be interdisciplinary and allow him/her to obtain research experiences beyond his/her current core disciplinary expertise. Deadline: November 26

NSF Innovation Corps Teams Program (I-Corps Teams) The purpose of the Teams grant is to give the project team access to resources to help determine the readiness to transition technology developed by previously-funded or currently-funded NSF projects. The outcomes of I-Corps Teams projects will be threefold: 1) a clear go or no go decision regarding viability of products and services, 2) should the decision be to move the effort forward, a transition plan for those projects to move forward, and 3) a technology demonstration for potential partners. Deadline: December 17 and quarterly thereafter.

EPA Environmental Education Regional Grants EPA is seeking proposals to support environmental education projects that promote environmental stewardship and help develop knowledgeable and responsible students, teachers, and citizens. … more »

This grant program provides financial support for projects that design, demonstrate, and/or disseminate environmental education practices, methods, or techniques, and that will serve as models that can be replicated in a variety of settings. Deadline: November 21

USGS Mineral Resources External Research Program (MRERP) The MRP is expanding its efforts in critical minerals research on commodities that are of increasing importance to economic and national security and may be subject to disruption in supply. To complement these new and expanded research efforts, the FY 2013 MRERP is soliciting research proposals that address one or more of the following topics: The Mid-continent Rift of the U.S.; Alaska as a mineral resource frontier; Hyperspectral imaging or other geophysical investigations of selected regions of the U.S.; Materials flow studies; and Critical Mineral Resources. Deadline: September 26.

PURDUE – College of Science
Why Choose Science?

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. (See the attached flyer for more information.)
http://www.nianet.org/larss

Faculty, Staff and Grad Students!
Center for Instructional Excellence – Fall 2012
College Teaching Workshops
Series I: Building on the Basics (Take one, several or the entire series!) (For more information, see ‘Series I’ attached flyer)
Series II: Expanding Your Teaching Toolkit (For more information, see “Series II” attached flyer)

NSF’S “EAST ASIA & PACIFIC SUMMER INSTITUTES” (EAPS)
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.
http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5284
There are scores of host universities, some which you will recognize as Purdue partners. The direct link follows for convenience.
http://www.nsf.gov/od/oise/eapsi-host-lists-all.jsp

Cyndi Lynch, Purdue Graduate School, is the coordinating this program. The application deadline is Nov. 8, 2012.
DISCOVERY PARK ANNOUNCES A NEW FACULTY RESEARCH FELLOWS AND SCHOLARS INITIATIVE.

All eight core DP centers except the Bindley Bioscience Center and the Birck Nanotechnology Center are eligible to participate for the 2012-2013 DP-wide Research Fellows and Scholars Program. The Bindley Bioscience Center and the Birck Nanotechnology Center administer separate programs. See http://www.purdue.edu/discoverypark/main/initiative.php.

Discovery Park seeks to engage the campus in the development, expansion and application of new science and engineering research and technologies. The program is directed at faculty on the West Lafayette campus (tenure-track/tenured and clinical) at all academic ranks who feel their research will benefit from access to the interdisciplinary environment and resources at Discovery Park. Fellows and Scholars will be chosen on a competitive basis following nomination by both their department/unit head/Chair and the appropriate Discovery Park center director with approval of the college dean. Appointment to the Fellows program is for one calendar year, while appointment to the Scholars program is for two calendar years. Departments/units will receive $25,000/year for each fellow and scholar as compensation for the partial release from academic responsibilities of faculty serving as Discovery Park Research Fellows or Scholars. Each fellow and scholar may receive up to $10,000/year for use in Discovery Park core research facilities during their appointment. The appointment period will begin January 1, 2013.

NSF GRADUATE RESEARCH FELLOWSHIP PROGRAM (GRFP)

Application Deadline(s): (submitted by 8 p.m. EST):
November 13, 2012 - Engineering; Computer and Information Sciences and Engineering; Materials Research;
November 14, 2012 - Mathematical Sciences; Chemistry; Physics and Astronomy;
November 16, 2012 - Social Sciences; Psychology; STEM Education and Learning;
November 19, 2012 - Life Sciences; Geosciences

Eligibility Criteria
Fellowship applications must be submitted by the prospective Fellow. Applicants must register with Fastlane (https://www.fastlane.nsf.gov/fastlane.jsp) prior to submitting an application. Confirmation of acceptance in an NSF-approved graduate degree program is required at the time of Fellowship acceptance, by May 1, 2013. Prospective Fellows must enroll in an accredited United States university, college, or non-profit academic institution of higher education offering advanced degrees in science and engineering by Fall 2013.

Available Formats:

ANADARKO PETROLEUM CORP. OPENINGS

Anadarko Petroleum Corp. will be recruiting for both internship and full-time positions at the following venues this fall:
AAPG – SEG Student Expo; Sept. 17-18; George R. Brown Convention Center, Houston, TX.
AAPG – Rocky Mountain Rendezvous; Sept. 21-24, UW Conference Center, Laramie, WY
(See attached flyer for more information)

* EAPS GRADS *
Chesapeake Energy Corp. Interviews September 14, 2012

Chesapeake Energy Corporation will present an informational session on Thursday, Sept. 13th in Room 2201/HAMP at 5:30PM. All interested students are invited to attend. Food will be provided.

On Friday, September 14, Chesapeake Energy Corp. will be interviewing for their summer Internship program. These are full time, paid internships based in Oklahoma City, OK. (See attached flyer for more details)

SHELL OIL COMPANY

Mark Davidson, Shell Oil Company, will be on campus Sept. 25-26 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.

On the evening of Tuesday, Sept. 25, Mark will hold a meet-and-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.

SHELL ENERGY DAY

Thursday, Sept. 27, 2012, Pfendler Hall 241, Dean's Auditorium (See attached flyers for more information)

AMS STUDENT AWARD OPPORTUNITIES

The American Meteorological Society has numerous student presentation competitions and awards at the AMS Annual Meeting, 6-10 Jan., 2013 in Austin, TX. Check out: http://annual.ametsoc.org/2013/index.cfm/information-for/students/student-award-opportunities/
COMMUNITY SERVICE LEARNING GRANTS

Purdue students or student organizations can apply for community service learning projects from the Office of Engagement. The goal is to expand the community involvement of Purdue students in partnership with communities, nonprofit agencies, schools and governmental bodies. See [website](http://www.purdue.edu/engagement/service/sgpcs.shtml) for more details. Applications are due for the fall semester projects on or before Sept. 14. Inquiries can be directed to Denise Hilton in the Purdue Office of Engagement at 49-40899 or d3@purdue.edu.

National Science Fellowships for Graduate School

The College of Science is undertaking a number of initiatives to help graduate students apply for NSF Fellowships. If you as an undergraduate are also interested in applying, please note the following opportunities and deadlines.

**NSF Fellowship:**
The NSF deadlines vary by discipline with the first one being due on November 13th. Please visit the [NSF website](http://www.nsfgrfp.org/) for more details.

**Incentive Grant:**
The Graduate school also offers an Incentive Grant (http://www.gradschool.purdue.edu/funding/) for students who apply for an NSF Fellowship. This grant awards selected individuals $250 for an external fellowship proposal.

**Graduate School NSF Workshops:**
We are requiring that you attend one of the following meetings before you attend any of our other events:

- **September 11, 2012**
  - STEW 314
  - 5:30 PM - 7:30 PM
  - Sponsored by Graduate School
- **September 12, 2012**
  - 4:30 PM - 6:30 PM
  - Sponsored by EAPS
- **September 13, 2012**
  - 6:00 PM - 8:00 PM
  - Sponsored by Graduate School
- **September 17, 2012**
  - STEW 314
  - 6:00 PM - 8:00 PM
  - Sponsored by Graduate School
- **September 18, 2012**
  - 5:20 in BRNG Rm. 2280.

See [website](http://www.rose.hulman.edu/IRC/program.html) for more information, please consult the IRC meeting location: Kahn Room, Hulman Institute of Technology. For more information, please consult the IRC website: [website](http://www.rose.hulman.edu/IRC/program.html).

A Note from Our Academic Counselor

**EAPS Department Ice Cream Social!**—this [Thursday, September 13 from 2-3:30](http://www.facebook.com/groups/164736236875548/) on the brick patio on the NW side of HAMP (CIVL) (between CIVL and ARMS)—hope you can attend. ALL EAPS faculty, staff, and students are invited; see flyer. Sponsored by PUGS and PUMA!

**Science Undergraduate Laboratory Internships (SULI)**

- Research opportunities with US Dept of Energy-Applications are now being accepted for the spring 2013 term. **Apply by October 1, 2012 - APPLICATION DEADLINE FOR SULI INTERNSHIPS.**

**9th Annual IRC Undergraduate Research Symposium at Rose-Hulman campus**

Call for Abstracts - 9th Annual IRC Undergraduate Research Symposium. Undergraduate students pursuing research are invited to present their results at the 9th Annual IRC Undergraduate Research Symposium, to be held on the Rose-Hulman campus on Monday, October 22, 2012. Registration deadline is September 21, 2012. Abstract guidelines and instructions for electronic submission can be found at [website](http://www.rose-hulman.edu/IRC). Meeting Location: Kahn Room, Hulman Student Union Rose-Hulman Institute of Technology. More information, please consult IRC website: [website](http://www.rose-hulman.edu/IRC/program.html).

**Want to Work Ahead or More Easily Meet Deadlines?**

The Academic Success center will present “I’ll Do It Tomorrow (How to Avoid Procrastination).” It’s a free workshop for students. Wednesday, September 12, 4:30-5:20 in BRNG Rm. 2280.

**Society of Asian Scientists and Engineers (SASE)**

There is a Purdue student chapter of SASE; you can connect through Facebook: [facebook](http://www.facebook.com/groups/164736236875548/). Their focus is connecting students to employment opportunities.

**Crisis Center Volunteers**

The Lafayette Crisis Center is a mostly volunteer, 24 hour connection to help in all kinds of crises. They are looking for volunteers and are offering training. If interested in training, email nstewart@purdue.edu, and I will send all the details.

2013 Maymester in Tanzania Callout

Monday, September 10, 2012 at 6:30pm in BRNG 4180. Pizza served. Here is an exciting Maymester opportunity in Tanzania. Visit Africa, work in local schools, enjoy a safari.

- Earn 7-9 credits in four weeks.
- Three weeks living near the Indian Ocean working in local schools.
- Swahili culture and language immersion
- 4-day Tanzanian safari

For more information, contact Jill Newton at janewton@purdue.edu. Program website: [website](http://www.edci.purdue.edu/tanzania/program_info.html)
Reminders:
The Big Ten Grad Expo will take place at Purdue on Sunday and Monday, September 23-24, for any students who are interested in Graduate School. Current Purdue students can attend either the complete event for $35 (which includes the workshops, networking events, etc.) or attend only the graduate school fair on Monday for free. Go to the Student Opportunities link and select Student Registration from the above link. Note: Registration is not needed for the fair.

On Saturday, September 22, Purdue will be hosting a GEM GRAD Lab. GEM, it is a consortium of corporations and universities working together to provide funding for students interested in graduate school. This partnership promotes the participation of underrepresented groups in post-graduate science and engineering education and the technical workforce. The GEM GRAD Lab is provided at no cost to the students attending and will take place from 1:00pm to 6:00pm. Register at https://egem.gemfellowship.org/events/ViewEvent.aspx?contextID=10065%20.

Students classified as sophomores and above (30 or more earned credits hours) have until Sept. 17 to drop a fall class with just 2 signatures; 3 signatures are required Sept. 18-Oct. 24. Oct. 24 is the last day for anyone drop to drop a class and first-year students need only 2 signatures.

PURDUE ANNOUNCEMENT
The Disability Resource Center (DRC) Centralizes Exam Proctoring Services for Students With Disabilities.

The DRC is now responsible for administering and proctoring exams for students with disabilities! This effort continues the Disability Resource Center’s attempts to streamline and make the process for receiving accommodations easier for students. Included in these changes is a brand new testing facility within the Disability Resource Center, located in Young Hall, as well as a web based system to request exam proctoring.

If you’d like more information, please visit: http://www.purdue.edu/odos/testingcenter/classroomexams.php

SEPTEMBER BIRTHDAYS!!
Eric Calais – 15th

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/ and Click on News to access active links as needed. Material for inclusion in the newsletter should be submitted to Wanitta 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.

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.
EAPS Department
Ice Cream Social!

PUMA and PUGS will be sponsoring a department ice cream social. All EAPS faculty, staff, and students are encouraged to attend.

For those interested, information about the two organizations will be provided.

When: Thursday, Sept 13, 2012 from 2:00 – 3:30 pm

Where: CIVL/HAMP Patio (area between Civil, Armstrong and PUSH)

For more information please contact:
PUMA President: Kayla Hudson (hudsonk@purdue.edu)
PUGS President: Elisa Baumgardt (ebaumgar@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

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

Abstract Submission Deadline: September 24, 2012

Questions? Please contact us at 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.
Call for Applications

2013–2014
GSA–USGS Congressional Science Fellowship

Bring your science and technology expertise to Capitol Hill to work directly with national leaders at the interface between geoscience and public policy.

Deadline for application: 1 February 2013

The GSA-USGS Congressional Science Fellowship provides a rare opportunity for a geoscientist to work in a House or Senate personal or committee office for one year. Prospective candidates are GSA Members with a broad geoscience background and excellent written and oral communication skills. The fellowship is open only to U.S. citizens or permanent U.S. residents, with a minimum requirement of a master’s degree with at least five years professional experience or a Ph.D. at the time of appointment.

Learn more at www.geosociety.org/csf or by contacting Ginger Williams 303-357-1040, gwilliams@geosociety.org

Put your professional and academic background, experience applying scientific knowledge to societal challenges, and passion for shaping the future of the geosciences to work in this coveted arena:

Apply today!
**SCIENTIFIC MEETINGS & EVENTS**

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<th>Event</th>
<th>Abstract Deadline</th>
<th>Meeting Date</th>
<th>Location</th>
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<td>Annual Meeting &amp; Exposition</td>
<td>14 August 2012</td>
<td>4-7 November 2012</td>
<td>Charlotte, NC, USA</td>
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<td>Northeastern Section Meeting</td>
<td>11 December 2012</td>
<td>18-20 March 2013</td>
<td>Bretton Woods, NH, USA</td>
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<td>Southeastern Section Meeting</td>
<td>11 December 2012</td>
<td>20-21 March 2013</td>
<td>San Juan, Puerto Rico</td>
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<td>South-Central Section Meeting</td>
<td>15 January 2013</td>
<td>4-5 April 2013</td>
<td>Austin, TX, USA</td>
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<td>North-Central Section Meeting</td>
<td>5 February 2013</td>
<td>2-3 May 2013</td>
<td>Kalamazoo, MI, USA</td>
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<td>Rocky Mountain Section Meeting</td>
<td>12 February 2013</td>
<td>15-17 May 2013</td>
<td>Gunnison, CO, USA</td>
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<td>Cordilleran Section Meeting</td>
<td>19 February 2013</td>
<td>20-22 May 2013</td>
<td>Fresno, CA, USA</td>
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<tr>
<td>International Section Meeting</td>
<td><em>(to be determined)</em></td>
<td>17-19 June 2013</td>
<td>Chengdu, China</td>
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<tr>
<td>Annual Meeting &amp; Exposition</td>
<td>6 August 2013</td>
<td>27-30 October 2013</td>
<td>Denver, CO, USA</td>
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**GRANTS—AWARDS—INTERNSHIPS**

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<th>Grant</th>
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<tr>
<td>Research Grants Applications</td>
<td>1 February 2013</td>
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<td><em>(geographical restrictions may apply)</em></td>
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<tr>
<td>GeoCorps™ America Application</td>
<td>4 February 2013</td>
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<td><em>(paid Spring/Summer internships)</em></td>
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<tr>
<td>Field Camp Scholar Award Application</td>
<td>8 April 2013</td>
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<td><em>(sponsored by ExxonMobil)</em></td>
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<tr>
<td>Field Camp Excellence Award Application</td>
<td>8 April 2013</td>
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<td><em>(sponsored by ExxonMobil)</em></td>
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<tr>
<td>Bighorn Basin Field Award Application</td>
<td>8 April 2013</td>
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<td><em>(sponsored by ExxonMobil)</em></td>
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<tr>
<td>GeoCorps™ America Application</td>
<td>1 July 2013</td>
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<td><em>(paid Fall/Winter internships)</em></td>
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**GSA MEMBERSHIP ADVANTAGE**

- Member-only discounts: meeting registrations, publications and online bookstore
- Member-only grants, awards and internships
- 17 special interest Divisions
- Publish and present your research

**Student Extras**

- Free online access to journals
- Research funding *(geographical restrictions may apply)*
- Mentor programs and employment contacts

www.geosociety.org
Request for Exploratory Research Proposals
Product Lifecycle Management (PLM) Center of Excellence
Purdue University

The Product Lifecycle Management (PLM) Center of Excellence is soliciting research proposals from faculty in all Colleges and Schools with interests related to PLM.

The goal is to identify substantial research projects that will contribute to Purdue University intellectual leadership in PLM.

Up to $30,000 per proposal is available with no indirect costs to fund approximately three one-year projects. Researchers from all disciplines are encouraged to submit proposals.

Proposals must complete the template at the end of this document and be no longer than three pages (including initial questions) in length.

PLM Center of Excellence Exploratory Research Program:

With initial seed funding provided by the PLM Center of Excellence Industrial Advisory Board members, the PLM Center of Excellence invites faculty to submit exploratory research proposals for the purpose of identifying projects with the following attributes:

- **Potential:** Possesses significant potential – that is excellent scholarship, attractive applications, leads to funding, attracts companies or national labs to a strong Purdue interaction and engagement.

- **Excellence:** Helps establish or further Purdue pre-eminence and visibility in PLM.

- **Novelty:** Promotes interdisciplinary research within and across departments and schools in a way that changes the day-to-day activities of the people who receive funding in a manner that they could not achieve without funding.

- **Leadership:** Promotes Purdue leadership in an area of emerging need.

- **Scale:** Possesses the potential to involve a large number of researchers and a variety of disciplines.
Deliverables:

In order to receive PLM Center of Excellence funding, projects must propose to deliver:

(1) A proposal to an external public or private funding agency or new, additional support from an outside organization for continuation of project efforts.

(2) Project updates will be presented at the Spring 2013 IAB meeting.

(3) Upon completion, a final project presentation and report must be delivered to members of the PLM Center of Excellence industry advisory board and the Center co-Directors. The electronic material used for the final project presentations must be submitted to the PLM Center of Excellence and should be of a nature whereby members of the PLM Center of Excellence industry advisory board and staff can use the material to solicit further project support.

In addition to funding, the PLM Center of Excellence management staff, Center co-Directors, and resources will be used to promote project success, connect projects to University wide efforts, and attract more support for projects from affiliated companies and external agencies.

Members of the Industrial Advisory Board will be reviewing the proposals on October 15, 2012.

Budget:

Proposals for funding up to $30,000 (with no indirect costs) are requested. Additionally:

- Fringe benefits will be charged.
- Funds may be used for faculty compensation, post-doc and graduate-student support, equipment, travel, supplies, software, and (limited) secretarial support.
- Faculty should contact their Sponsored Program Services (SPS) pre-award office, who will assist with budget preparation and submission of the proposal.
- SPS will prepare a transmittal check sheet and obtain signatures of the appropriate department/school heads. On the transmittal check sheet, SPS should indicate that the proposal is an internal proposal.
- Awarded projects should be designed to start January of 2013 and be completed within the calendar year. Funds not used by the end of the same calendar year will be returned to the PLM Center.

Deadline:

Proposals may be submitted anytime but no later than Friday September 28, 2012 and should be emailed to:

Steve Shade
Managing Director, Center for Advanced Manufacturing
College of Engineering
(765) 494-1279
sashade@purdue.edu
Potential Topics:

The research efforts endorsed by the PLM Center of Excellence tend to be rather diverse given the breadth and depth of the product lifecycle. While not exhaustive, the following list includes potential topics to be explored:

- Data visualization
- Mobile computing
- The use of PLM technology in the service and support of products
- The use of PLM technology and data to support sustainable product realization
- PLM software tool interfaces (cognitive and computational aspects)
- Integration of ERP/MES with PLM tools
- Security models for PLM data
- The role of model-based definition in the product lifecycle
- Data interoperability and workflows
- Virtual collaboration and associated technologies
- Standards (data, software usage, archival)
- Social media and its impact on the product lifecycle

Timeline:

- **Monday August 27, 2012** – Request for Proposals sent out to faculty
- **Friday September 28, 2012** – Proposals due
- **Monday October 15, 2012** – Proposals reviewed and awarded

**PLM Co-Directors**

Nathan Hartman – College of Technology  
Voicu Popescu – College of Science  
Fu Zhao – College of Engineering

**PLM Industrial Advisory Board Members**

Boeing  
Cummins  
General Motors  
Gulfstream  
Rolls-Royce  
Sandia National Labs
2012-13 Product Lifecycle Management (PLM) Center of Excellence
Request for Exploratory Research Proposals

Principal Investigator: [ ]
Department: [ ]

Co –P.I.: [ ]
Department: [ ]

Proposal Title: [ ]

Executive Summary (~1 paragraph):

Research Potential / Novelty (What is the motivation / need for this research? ~1 paragraph):

Relevant PLM related technologies (Research scale, e.g., data management, visualization, model-based engineering):

Is there an opportunity for Industrial Advisory Board member or company participation? (If yes please describe)

Technology Readiness Level research range: [ ]

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<td></td>
<td>Proof of Concept</td>
<td>Proof of Principle</td>
<td>Proof of Performance</td>
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<td>Basic principles observed and reported</td>
<td>Technology concept and/or application formulated</td>
<td>Analytical / experimental studies and/or characteristic proof-of-concept</td>
<td>Validation of basic deliverable(s) in laboratory environment</td>
<td>Basic deliverable(s) integrated and tested in relevant environment</td>
<td>Representative model or prototype system tested in relevant environment</td>
<td>System prototype demonstrated in an industry environment</td>
<td>Actual system completed and integrated into existing industry system</td>
<td>Actual system proven through successful industry operations</td>
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Future funding opportunities (agency/program, or other) plus expected submittal timeframe:

Deliverables to be provided to IAB members:

Research Project Description:
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

**How to Avoid Giving a Bad Presentation**
Strategies for preparing and delivering an effective presentation. How to attract your students’ attention, improve your presentation techniques, and build effective PowerPoint presentations.

**Tuesday, September 25,**
9:00-10:30 am - POTR 141

**Micro-Teaching: Practice Your Teaching**
In this workshop, you’ll present a short lesson to a group of your peers who will role-play the students in your class. Besides getting feedback on your presentation, you’ll have a videotape to include in your teaching portfolio.

Contact CIE to register.
**Tuesday, October 2,**
8:30-10:30 am

**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.
The Langley Aerospace Research Student Scholars (LARSS) Research Internship Program
http://www.nianet.org/larss

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
Anadarko Petroleum Corporation
Are you interested in solving complex geological problems, turning challenges into opportunities, and providing energy to the world?

Anadarko is one of the world’s largest independent oil and gas exploration and production companies. We have geoscience careers available with specialties in sedimentology, stratigraphy, regional geology, geophysics, petrophysics, basin analysis, geochemistry, and geosteering. You will find state of the art technology and training, mentoring by subject matter experts, and a great culture based on core values.

Go to the next page to learn more!

We will be recruiting for both internship and full-time positions at the following venues this fall:

**AAPG – SEG Student Expo**
- September 17 - 18, 2012
- George R Brown Convention Center, Houston, TX

**AAPG – Rocky Mountain Rendezvous**
- September 21 - 24, 2012
- UW Conference Center, Laramie, WY

Online Registration Closes Sept 5th

Online Registration Closes Sept 13th
Anadarko’s mission is to deliver a competitive and sustainable rate of return to shareholders by developing, acquiring and exploring for oil and gas resources vital to the world’s health and welfare.

Click the links below for additional information and videos:
- Anadarko.com
- Mozambique Mining & Energy Conference
- Uintah Basin Applied Technology College
- El Merk, Algeria Update

Geology & Geophysics Careers

Our new geoscientists will immediately join an active team and begin contributing to the success of Anadarko from day one. Potential first assignments include working on a team within operations, exploration or our technology group. These teams are active in the U.S. Onshore, Gulf of Mexico and many international areas. Follow up assignments are chosen to further develop our geoscientists’ careers and meet our business needs. The diversity of our project portfolio provides opportunities for career development considerably beyond other independent petroleum companies and rivals the opportunities of the majors, especially when considering staff size.

On the job training is combined with our geoscience training program, which is more intense during your first four years, utilizing both in-house courses taught by our staff and industry courses taught by highly rated industry instructors. Training focuses on geo-technical subjects but also includes business, personal, leadership and software skills. In addition to formalized training, ongoing technical development occurs through our Applied Mentorship program and frequent technical transfer opportunities held throughout the company.

“Anadarko’s integrated team approach provides a well-rounded, interdisciplinary experience that stimulates innovation and creativity.”

Breck Johnson
Senior Geologist

“On my first assignment, my team completed a reservoir characterization study that identified new prospective areas in an old field. This was an excellent learning experience as we worked closely with mentors throughout the company.”

Natasha Rigg
Planning Supervisor

Anadarko Corporate Culture & Community

Leaving the world a better place for generations to come and giving back to the communities where we operate is our responsibility and our commitment. See how Anadarko’s employees are putting these words into action every day.

Click the links below for additional information and videos:
- Anadarko Values
- Awards and Corporate Social Responsibility
- Career Day in the Greater Natural Buttes, Utah
- Junior Achievement
- Recognizing Breast Cancer Awareness Month
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. Seats are limited, so register by September 24th.

Let’s deliver better energy solutions together.
The College of Engineering at Purdue University is extremely proud to host the GEM GRAD Lab: Getting Ready for Advanced Degrees Laboratory. This fun event designed to inform….a FREE event with afternoon snacks and dinner provided.

Date: Saturday, September 22, 2012
Registration: 12:30 pm
Program: 1:00 pm–6:00 pm (Eastern Time)
Location: Stewart Center, Room 214/128
Memorial Mall/West Lafayette, IN

Who Should Attend: Any science/engineering undergraduate, graduate or working professional who is interested (or should be interested) in furthering their education in a STEM field.