EAPS 2012 OUTSTANDING ALUMNI

Budhendra Bhaduri - (PhD, Geology) Dr. Budhendra Bhaduri is a Corporate Research Fellow at Oak Ridge National Laboratory (ORNL) and leads the Geographic Information Science and Technology (GIST) group within the Computing and Computational Sciences directorate.

Mike Hoffman - (BS, Atmospheric Science) Chief Meteorologist for WNDU-TV, South Bend, IN

Shankar Jayaganapathy - (PhD, Geology) a Senior Director with Oracle Enterprise Solutions Group (ESG) and runs Partner Strategy and Solutions Architecture (PSSA) team, which consists of Targeted Partner Strategy (TPS), The Systems, Enterprise and Architecture (SEA) team and Strategic Deployment Services (SDS).

Melanie McQuinn - (BS and MS, Geology) currently devoted to regional play concept development and prospect delineation in the emerging Eastern Mediterranean Levant Basin, as a Senior Geologist in Noble Energy’s International Division in Houston, Texas.

Suzanne Zurn-Birkhimer - (MS and PhD, Atmospheric Science) Assistant Department Head of Earth, Atmospheric, and Planetary Sciences at Purdue University.

EAPS ASSOCIATE PROFESSOR MIKE BALDWIN WON A TEACHING FOR TOMORROW AWARD.
This award is provided by the Classes of 1944 and 1945 in order to foster continued excellence in teaching and learning on our campus and to facilitate the development of the teaching potential of the faculty. Annually, it recognizes up to twelve assistant professors (or recently promoted associate professors) for their demonstrated talent for teaching and three senior faculty members for their long-term contributions to teaching at the University. Congratulations Mike!

WELCOME TO EAPS NICOLE KONG
It is with great pleasure that we welcome our new GIS librarian, Nicole Kong, to Purdue. Nicole has a background in ecology and environmental science, including a PhD from Penn State University. She has worked in academic institutions (University of Kentucky and Penn State), government (Kentucky Transportation Cabinet) and industry (NCR Corporation in West Lafayette), providing GIS support, instruction, and developing applications, including the Best GIS Desktop Application award at the 2010 Kentucky GIS conference. In addition, she has authored over a dozen publications and given many presentations at GIS and Ecology-related conferences.

We are very fortunate to have Nicole join us in the Libraries. Please feel free to contact her if you have any questions about the Libraries’ GIS services, or just to say hello. Her office is in the EAPS Library (2215 HAMP/CIVL), kongn@purdue.edu; 69474.
**Upcoming MEETINGS**

**Tuesday, October 2, HAMP 2201**
EAPS GSA Meeting

**EAPS SEMINAR**

**Thursday, October 4, HAMP 1252**
“Topography and the Influence of Deserts on Monsoons,” William Boos, Yale University. (See attached flyer for more information)

**Friday, October 5, 12:00-1:00, HAMP 2201**

**EAPS Special SEMINAR**

**Friday, October 5, 9:00, HAMP 2201**
Planetesimal Migration in the Early Days or Taking the Solar System by Stormer,” Kevin Grazier, Jet Propulsion Lab and Turner Network Television. (See attached for more information)

**EAPS WEATHER BRIEFING MEETING**

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

**EAPS PhD DEFENSE**

**Thursday, October 4, 1:00pm, HAMP 2201**

**EAPS PRESENTATIONS**


Terry West presented an oral paper at the Annual Meeting of the Association of Environmental and Engineering Geologists (AEG) in Salt Lake City on September 21, 2012, entitled “A Compilation of Recent Studies in Applied Geology, Performed in Tippecanoe County, Northwest Indiana.” He also attended an excellent three day field trip to Bryce Canyon and Zion National park, led by two members of the Utah Geological Survey.

**CAMPUS-WIDE SEMINARS**

**Dr. Mason Peck, NASA Chief Technologist**, Wednesday, Oct. 3, 1:00-2:00, Pfendler Hall Dean’s Auditorium, Room 241. (See attached flyer for more details)


**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)**

**Monday, October 22, 3:30 pm, Fowler Hall, STEW Ctr.**
“Designing Resilience in a Black Swan World.” Discovery Lecture Series, Purdue University. (See attached flyer for more details)

**Purdue University Discovery Park Internal Search for a Director Purdue Climate Change Research Center**
Applications should be sent electronically to Wendy Field (wfield@purdue.edu) no later than October 12, 2012. (See attached flyer for more information.)

**NSF Innovation Corps (I-Corps) Webinar**
Wednesday, Oct. 3, 1:00-2:00 pm (EDT)
For more information, check this link: [http://view.newsletters.nas.edu/?j=fe6b157574640c7d7511&m=lef61279766502&s=fe6101076172&l=fe931676726d077c75&s=fe1e1375726c077b751477&jb=ffcf14&ju=fe2b15757064077a701076](http://view.newsletters.nas.edu/?j=fe6b157574640c7d7511&m=lef61279766502&s=fe6101076172&l=fe931676726d077c75&s=fe1e1375726c077b751477&jb=ffcf14&ju=fe2b15757064077a701076)

**IMPACT cohort - spring 2013 - Call for Applications**

The Call for Applications for the spring 2013 IMPACT cohort is now open! The deadline for applications is Friday October 26th, 2012. [http://www.purdue.edu/impact/apply.html](http://www.purdue.edu/impact/apply.html)

If you have questions regarding the IMPACT program or need additional information, contact Chantal Levesque-Bristol, Director, Center for Instructional Excellence, Professor, Educational Studies.
Assistant Professor of Earth and Planetary Sciences, Washington University in St. Louis - OPEN POSITION

The Department of Earth and Planetary Sciences at Washington University in St. Louis invites applications for a tenure-track Assistant Professor in high-temperature geochemistry or experimental petrology. The ideal candidate will combine experimental and analytical approaches to study the geochemical, petrologic, and structural evolution of Earth and other terrestrial planets. The successful candidate will be responsible for developing a vigorous, externally funded research program, teaching a range of undergraduate and graduate courses and participating in Department and university service projects. We seek individuals who will enhance existing strengths in high-temperature geochemistry/cosmochemistry, petrology, and solid-earth geophysics. Candidates must have a Ph.D. with a focus in geochemistry, petrology, or a related field, at the time of appointment. Interested individuals should send a letter of application, curriculum vitae, statement of teaching and research interests, and names and contact information of at least four references to Geochemistry Search Committee Chair, Washington University, Campus Box 1169, 1 Brookings Drive, St. Louis, MO 63130, or via e-mail: geochem_search@levee.wustl.edu. Women and minorities are encouraged to apply. Washington University is an equal opportunity/affirmative action employer. Employment eligibility verification required upon employment. Applications will be considered until the position is filled, but priority will be given to those received by December 1st, 2012.

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

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

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)

* EAPS GRADS * - TWO TRAVEL GRANTS AVAILABLE

Ismail Travel Grants
October 13, 2012 – deadline

The A.H. Ismail Interdisciplinary Program Doctoral Research Travel Award competition provides funds to assist students in the presentation of their doctoral research at a national or international conference. Follow directions for submissions at http://www.gradschool.purdue.edu/funding/.

Andrews and Blosser Environmental Travel Grants
November 9, 2012 – deadline

The Andrews Environmental Grant was established in honor of Dr. Frederick N. Andrews to support research focused on improving the world environment. The Blosser Environmental Grant was established in honor of Russell O. Blosser to support graduate students majoring in an area of environmental sciences. Preference is given to students affiliated with the Chi Chapter of Kappa Sigma Fraternity. Follow directions for submissions at http://www.gradschool.purdue.edu/funding/.

ExxonMobil Interviews
October 18-19, 2012

ExxonMobil will be on campus October 18-19 to interview M.S. and Ph.D. students who are interested in petroleum geoscience-related careers in areas associated with: Exploration, Development, Production, Geophysics Specialties, and Research. They will be interviewing students for both regular employment and internships. See posted flyer for additional details.

Please submit an application, your resume and copies of your transcripts online at (www.exxonmobil.com/apply) one week prior to interviewing. To sign up for an interview time, please see Kathy Kincade in Room 2169/HAMP.

In addition, Bob Stewart, Recruiter for ExxonMobil, will also conduct a pre-interview presentation on Thursday, October 18 at 5:00pm in Room 2201/HAMP.
(See attached flyer for more details)
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.

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Graduate Research Fellowship Program (GRFP)


Application Deadline(s) (submitted by 8 p.m. Eastern Standard Time):

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

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2012-2013 Library Scholars Grant Program

Information and guidelines for proposals are outlined in attached information. All proposals must be submitted by email to Carole Tolley, toleyc@purdue.edu, with the Subject: Library Scholars Grant, due Friday, Nov. 16, 2012 at 5:00 pm. (See attached for all details.)

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A Note from Our Academic Counselor

Summer Research Internships

There is a list of possible summer research internships as a flyer at the end of this Newsletter. Check them out!

Did you Intern Last Summer?

Thank you for completing the CCO survey you received. If you still need to do this, here’s some info: The Center for Career Opportunities (CCO) created a Post Internship Survey, and this survey is available online. This online survey is generic in scope, but it will allow for the University and the College to obtain quantitative data on the COS students who have completed an internship (fall/spring or summer). This is significant as the College is being asked regularly by internal and external constituents regarding how many of our undergrads have participated in an internship before they graduate. The data generated from the online survey will be a tool that the College and Departments can use to generate quantitative data regarding undergraduate internships. The survey takes just a couple of minutes:

https://www.cco.purdue.edu/asp/Internship/

Learning Beyond the Classroom

Come find out about the Learning Beyond the Classroom Certificate Program. Completion of this program is recognized at graduation and noted on your Purdue transcript. Wednesday, October 3, 6:00-7:00 PM in LWSN 1142. Sandwiches will be served. This event is sponsored by the College of Science Ambassadors. If you are unable to attend, visit the Learning Beyond the Classroom web pages at www.science.purdue.edu/LBC . If you have questions, e-mail the administrator at lbc@purdue.edu.

Lecture and a Free Book

You have been reading about the “Borges and the Sciences” lecture on Wednesday, Oct. 3 at 9:30 a.m. in STEW Rm. 214. How about a free book? On the day of the symposium Purdue University Press will release the printed English edition of Guillermo Martínez’s Borges and Mathematics (originally in Spanish), a book of essays that explores the presence of mathematical thinking in Borges’s famous short stories. Some of the essays in the book also reflect about the relationship between literature, artistic creation, and mathematics more generally. Thanks to the generous sponsorship of the Latino Cultural Center at Purdue, a downloadable copy of this book is made available free-of-charge to the Purdue University community for a limited time; interested readers can check it before the visit of the author on October 3rd (the electronic copy is only downloadable from campus; please, follow the link and read the instructions at the bottom of the Purdue U. Press page) http://docs.lib.purdue.edu/purduepress_ebooks/25/
Career Blog
"How I Overcame the Awkwardness of Networking"
This blog is for students interested in learning more about networking.

Calendar
October Break – No classes on Oct. 8 and 9.
Oct. 8 - Spring 2012 schedule of classes expected online 8 a.m.
Oct. 8 - Release of spring time ticket information (your dates to add classes) also 8 a.m.

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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)

October Birthdays
Ernie Agee – 2nd
Phil Smith – 2nd
Jeff Trapp – 3rd
Wen-Yih Sun – 4th
Wen-wen Tung – 8th
Dev Niyogi – 18th
Sonia Lasher-Trapp – 22nd
Kathy Kincade – 24th
Wanitta Thompson – 30th

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 (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 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.
Monsoons are thermally direct, continental-scale circulations that supply water to billions of people, so controls on the intensity and location of monsoons are widely studied. Here we discuss how the influence of proximal deserts on the South Asian summer monsoon is modified by topography, and examine implications for the prediction of next-century monsoon rainfall. We begin by examining the observed thermodynamic mean state of this monsoon, and explain how it motivates the hypothesis that orography creates a strong monsoon by preventing the intrusion of cold and dry extratropical air into the warm and moist monsoon thermal maximum. This hypothesis contrasts sharply with the long-standing view that the South Asian summer monsoon is driven by elevated heating from the Tibetan Plateau; numerical model results confirm that the monsoon remains largely unchanged when the elevated plateau heat source is eliminated. Next we show that almost all models participating in the Coupled Model Intercomparison Project (CMIP) exhibit a common bias in the thermodynamic structure of the South Asian summer monsoon that is caused by overly smoothed representations of orography. Too much dry air passes over the mountains west of the Tibetan Plateau in these models, ventilating and weakening the monsoon thermal maximum. This produces a strong negative bias in Indian monsoon precipitation in simulations of modern climate, and the bias becomes even stronger in simulations of next-century climate due to increasing horizontal gradients of moisture. These results highlight the utility of thermodynamic views of monsoons and confirm the importance for South Asian climate of the narrow, zonally-elongated chain of mountain ranges that stretch from the Middle East to southeastern Asia.
EAPS Armchair Traveler Series

Explore the world with our colleagues who will present pictures, videos and stories from their travel to areas unlike Indiana. Hear about where they went, why they went, and learn about interesting landscapes, various cultures, and exciting experiences.

This is an informal brown bag gathering

CHRISTOPHER ANDRONICOS

TRUDGING ACROSS THE RUSSIAN TUNDRA IN SEARCH OF IMPOSSIBLE CRYSTALS

Friday, October 5
12:00-1:00pm
2201/HAMP
Dr. Grazier is a Purdue Alum with B.S. degrees in CS and Geology and an MS in Physics. He also holds a B.S. in Physics from Oakland University and a PhD in Planetary Physics from UCLA.

For fifteen years, Dr. Grazier held the duel titles of Investigation Scientist and Science Planning Engineer for the Cassini/Huygens Mission to Saturn and Titan at NASA's Jet Propulsion Laboratory (JPL). Dr. Grazier continues research involving numerical method development, and computer simulations of Solar System dynamics, evolution, and chaos.

Dr. Grazier is currently the Science Advisor on TNT’s Falling Skies, Syfy’s upcoming epic Defiance, and the summer blockbuster Gravity. He has also served as the Science Advisor for Battlestar Galactica, Virtuality, The Event, the animated/educational series The Zula Patrol, and Syfy’s summer series Eureka.

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.
Please join us for an overview of space technology and what the future holds including a discussion on NASA fellowships and early faculty opportunities.

This presentation is open to all interested faculty, staff and students.

On Jan. 1, 2012, Cornell University Professor Mason Peck became NASA's chief technologist. Dr. Peck serves as the agency’s principal advisor and advocate on matters concerning technology policy and programs. As the chief technology advocate, he communicates how NASA technologies benefit space missions and the day-to-day lives of Americans.

NASA's Office of the Chief Technologist coordinates, tracks and integrates technology investments across the agency and works to infuse innovative discoveries into future missions. The office also documents, demonstrates and communicates the societal impact of NASA's technology investments. In addition, the chief technologist leads NASA technology transfer and technology commercialization efforts, facilitating internal creativity and innovation, and works directly with other government agencies, the commercial aerospace community and academia.

Dr. Peck serves as NASA's chief technologist through an intergovernmental personnel agreement with Cornell, where he is on the faculty as an associate professor in the School of Mechanical and Aerospace Engineering and teaches in Cornell's Systems Engineering Program.

Dr. Peck has a broad background in aerospace technology, which comes from nearly 20 years in industry and academia. He has worked with NASA as an engineer on a variety of technology programs, including the Tracking and Data Relay Satellite System and Geostationary Operational Environmental Satellites. The NASA Institute for Advanced Concepts sponsored his academic research in modular spacecraft architectures and propellant-less propulsion, and the International Space Station currently hosts his research group’s flight experiment in microchip-size spacecraft.

Dr. Peck earned a doctorate in aerospace engineering from the University of California, Los Angeles as a Howard Hughes Fellow and a master's degree in English literature from the University of Chicago.
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!


Questions? Please contact us at eseevent@purdue.edu
Designing Resilience in a Black Swan World

Abstract: Black Swan events are those with low or unknown probability, but high and long-lived and often global impacts. They affect financial markets, climate, public safety, and human health and more. This talk is about how we begin to design communities, regions, and nations to improve resilience and prosperity in the face of these "Black Swan" events. Professor Orr's lecture will examine a case study, the Oberlin Project, and the National Sustainable Communities Coalition.

David W. Orr
Paul Sears Distinguished Professor of Environmental Studies and Politics and Senior Adviser to the President, Oberlin College

David W. Orr is one of our generation's leading environmental philosophers and educators. His career as a scholar, teacher, writer, speaker, and entrepreneur spans fields as diverse as environment and politics, environmental education, campus greening, green building, ecological design, and climate change.

He is the recipient of seven honorary degrees and other awards including a Lyndhurst Prize acknowledging "persons of exceptional moral character, vision, and energy." Dr. Orr is the author of seven books, including "Down to the Wire: Confronting Climate Collapse" (Oxford, 2009), co-editor of three others, and nearly 200 articles, reviews, book chapters, and professional publications. He is the executive director of the Oberlin Project, an editor of the journal Solutions, and is a high level adviser to four grandchildren ages 2-12.

For More Information
Visit www.purdue.edu/discoverypark/dls/ | Contact Cindy Ream: cream@purdue.edu | 765-494-0015

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Office of University Sustainability

Purdue University
Discovery Park
Director
Purdue Climate Change Research Center

An internal search is underway for the next Director of the Purdue Climate Change Research Center (PCCRC) in Discovery Park. The Director of the PCCRC will lead the Center in its mission and will be responsible for all internal and external affairs of the center. The Director will also be expected to effectively communicate the Center’s achievements and vision to a variety of stakeholders, including the public, policy makers, government leaders, industry and scientists in other disciplines.

The successful candidate will have a PhD in a related field, a broad knowledge of climate issues and research opportunities, and a successful track record of activities in an area directly related to climate science and/or policy. Candidates must have demonstrated research leadership and scholarly achievement in one or more areas of climate change or directly related fields. The Director is expected to utilize the unique infrastructure and investment of Discovery Park to combine discovery and engagement to sustain a world class Center at Purdue University. The Director of the PCCRC reports to the Director of the Global Sustainability Institute and works closely with Academic Deans, Department Heads, Discovery Park researchers, and the PCCRC leadership in the administration of the program.

The review and interview process is scheduled to be completed before the end of the semester so that a new director will start January 1, 2013. Applications are welcomed from Purdue West Lafayette faculty with full professor rank. Application deadline is October 12, 2012.

Potential applicants are encouraged to discuss their interest with their department head, as a center director is typically expected to focus 75% effort on the position. Applications should include a letter reflecting the applicant's experience and vision for the position and PCCRC, as well as a current CV.

Applications should be sent electronically to Wendy Field (wfield@purdue.edu) no later than October 12, 2012. We anticipate finalists for the position will give public presentations on their vision for PCCRC.

If you have questions about the details of the position, please contact Jon Harbor (jharbor@purdue.edu). If you have questions about the search, please contact Ernie Agee (eagee@purdue.edu).

Purdue University is an Equal Opportunity/Equal Access/Affirmative Action Employer fully committed to achieving a diverse workforce.
Summer of Applied Geophysical Experience

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 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
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  

_Monday, 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  

_Monday, 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.

Register for Series II Workshops — click on title
To: Vice Presidents, Deans, Department Heads

From: James L. Mullins, Dean of Libraries, West Lafayette

Date: September 24, 2012

Subject: 2012-2013 Library Scholars Grant Program

I am pleased to announce the 2012-2013 Library Scholars Grant Program. Eligibility for the program includes not only untenured tenure-track Purdue faculty, but also Purdue associate professors tenured effective July 1, 2010 and later. Grant recipients are not eligible for an award in consecutive years. Underwritten by the Class of 1935, the program is designed to help untenured tenure-track and recently tenured Purdue faculty gain access to library materials necessary for research required for their continued growth as faculty members. The focus of the program is to support access for these faculty members to unique collections of information around the country and the world.

Just as people come to Purdue to use our unique collections, the research of Purdue faculty may require visiting unique collections beyond Purdue and thereby incurring travel-related expenses and fees charged by the library or other collection owner for access, photocopying, scanning, etc. The Library Scholars Grant Program offers an opportunity for untenured tenure-track Purdue faculty and recently tenured Purdue associate professors in all disciplines, and from all Purdue campuses and the Statewide Technology Program, to receive support for such activities. Purdue faculty at the Fort Wayne and IUPUI campuses are those within “Purdue mission” programs; i.e., for whom the promotions process falls under Purdue. Awards will vary in amounts of up to $5,000.

Please share the enclosed information with the untenured tenure-track members of your faculty, and with associate professors tenured effective July 1, 2010, or later, and encourage them to consider the potential relevance of the Libraries Scholars Grant Program to their scholarly information needs.

Att: Announcement and guidelines for proposals
Purdue University Libraries announces
the 2012-2013 Library Scholars Grant Program
underwritten by the Class of 1935

The Purdue University Libraries will continue the Library Scholars Grant Program this year with a focus on supporting access to unique collections of information around the country and the world. Awards of up to $5,000 will be made for this purpose to untenured tenure-track members of the Purdue faculty, and to associate professors tenured effective July 1, 2010, or later, with grant-supported activities to be completed by December 31, 2013. The Library Scholars Grant Program is made possible through the generosity of the 50th anniversary gift of the Class of 1935, and continuing gifts from this class and others, to an endowment fund in the Purdue Research Foundation.

The Library Scholars Grant Program is designed to provide grants to untenured tenure-track Purdue faculty members and recently-tenured associate professors, to help them gain access to library materials necessary for research required for their continued growth as faculty members. Just as people come to Purdue to use our unique collections, the research of Purdue faculty may require visiting unique collections beyond Purdue. The Library Scholars Grant Program offers an opportunity for support for such activities to untenured tenure-track members of the Purdue faculty, and to Purdue associate professors tenured effective July 1, 2010, or later, in all disciplines, from the West Lafayette, Calumet, Fort Wayne, IUPUI, and North Central campuses, and the Statewide Technology Program. (Purdue faculty at the Fort Wayne and IUPUI campuses are those within “Purdue mission” programs; i.e., those for whom the promotions process falls under Purdue.)

Each Library Scholars Grant recipient will be asked to present a seminar about the information-related activities supported by the grant. The seminars will permit the Libraries to learn from recipients’ experiences in order to better serve both Purdue scholars and those from outside Purdue who visit our collections.

The 2012-2013 Library Scholars Grant Program awards will be in amounts of up to $5,000. The funds may be used for expenses associated with travel to archives or collections beyond Purdue, including the cost of transportation, lodging, meals, and fees charged by the library or other collection owner for access, photocopying, scanning, etc. Reimbursement will be made, for approved expenditures, up to the amount of the award.

Criteria used to judge the proposals will include how well the case is made that the proposed information-related activities will support the candidate’s research and that conducting these activities requires travel to unique collections beyond Purdue, the appropriateness of the budget, and the feasibility of the project within time constraints. Proposals will be evaluated by a panel chaired by a tenured member of the Libraries faculty and composed of tenured faculty and one or more previous winners, with recommendations made to the Dean of Libraries. Award recipients will be contacted in December 2013.

The guidelines for proposals are outlined below.

All proposals must be submitted by email to Carole Tolley, tolleyc@purdue.edu, with the Subject: Library Scholars Grant, no later than 5:00pm, Friday, November 16, 2012.
Overview
The Library Scholars Grant Program, administered by the Purdue University Libraries, focuses on supporting access for untenured tenure-track members of the Purdue faculty, and associate professors tenured effective July 1, 2010, or later, to unique collections of information found around the country and the world. Awards of up to $5,000 will be made to for this purpose, with grant-supported activities to be completed by December 31, 2013.

The Library Scholars Grant Program is designed to provide grants to untenured tenure-track Purdue faculty members, and recently tenured associate professors, to help them gain access to library materials necessary for research required for their continued growth as faculty members. Just as people come to Purdue to use our unique collections, the research of Purdue faculty may require visiting unique collections. The Library Scholars Grant Program offers an opportunity for untenured tenure-track faculty and recently tenured associate professors to receive support for expenses associated with travel to archives or collections beyond Purdue, including the cost of transportation, lodging, meals, and fees charged by the library or other collection owner for access, photocopying, scanning, etc.

Eligibility
Untenured tenure-track members of the Purdue faculty, and Purdue associate professors tenured effective July 1, 2010, or later, in all disciplines, from the West Lafayette, Calumet, Fort Wayne, IUPUI, and North Central campuses, and the Statewide Technology Program are eligible for Library Scholars Grant Program awards. (Purdue faculty at the Fort Wayne and IUPUI campuses are those within “Purdue mission” programs; i.e., those for whom the promotions process falls under Purdue.) Grant recipients are not eligible for an award in consecutive years.

Proposal contents and format
1) Cover page with the following information:
   a) Name
   b) Rank and title
   c) Date of appointment to the Purdue faculty
   d) Department
   e) College
   f) Campus address
   g) E-mail
   h) Phone number
   i) Name and address of Head of Department
   j) Name and address of Dean of College/School
   k) Name of Purdue Libraries faculty member or other Purdue Librarian from whom the applicant is submitting a letter of support (see #4)
   l) Total amount of funding the applicant seeks from the Library Scholars Grant Program
   m) Additional funding (grants, departmental funds, etc.), if any, available to the applicant to support the information-related activities for which a Library Scholars Grant is being sought

2) One-page narrative stating the following:
   a) Area of research;
   b) Related information needs that require using collection(s) beyond Purdue;
   c) Information-related activities to be undertaken
   (Note: The award may be used for expenses associated with travel to archives or collections beyond Purdue, including the cost of transportation, lodging, meals, and fees charged by the library or other collection owner for access, photocopying, scanning, etc.);
   d) Projected timeline; and
e) Expected outcome(s) of the information-related activities, i.e., how they would support the applicant’s research.

3) **Budget**, itemizing proposed activities and their estimated costs, and showing total. The following websites should be used to estimate lodging, meals and incidentals.

   -- For U.S. General Services Administration – Domestic destinations: http://www.gsa.gov/portal/content/105307
   -- For U.S. Dept. of State -- Foreign destinations: http://aoprals.state.gov/content.asp?content_id=184&menu_id=81

4) **Letter of support** from a Purdue Libraries faculty member, or other Purdue librarian, with whom applicant has consulted regarding the information needs and information-related activities reflected in the proposal. In the letter, the librarian should briefly state the reasons the applicant cannot meet the information needs by using Purdue collections and electronic information resources and, therefore, needs to travel to unique collections beyond Purdue.

5) **Brief resume** (3 pages maximum).

6) **List of publications**

**Reporting requirements**

A brief report or presentation on the information-related activities accomplished as a result of the award, and their significance to the research of the recipient, must be sent to the Dean of Libraries by February 15, 2014. Additionally, each individual awarded a Library Scholars Grant will be asked to present a seminar about the activities supported by the grant. The seminars will permit the Libraries to learn from recipients’ experiences in order to better serve both Purdue scholars and those from outside Purdue who visit our collections.

**Funding**

Awards will be in amounts of up to $5,000, with reimbursement, for approved expenditures, up to the amount of the award. The Libraries Business Office will coordinate reimbursement with the grant recipient's business manager. Expenses may be reimbursed as they occur over the course of the project, with grant-supported activities to be completed by December 31, 2013. All requests for reimbursement, accompanied by appropriate documentation, must be received in the grant recipient’s departmental business office no later than February 15, 2014.

**Criteria for judging proposals**

Criteria used to judge the proposals will include how well the case is made that the proposed information-related activities will support the applicant’s research and that conducting these activities requires travel to unique collections beyond Purdue, the appropriateness of the budget, and the feasibility of the project within time constraints. Proposals will be evaluated by a panel chaired by a tenured member of the Libraries faculty and composed of tenured faculty and one or more previous winners, with recommendations made to the Dean of Libraries. Award recipients will be contacted in December 2012.

**Proposal deadline**

All proposals must be submitted by email to Carole Tolley, tolleyc@purdue.edu, with the Subject: **Library Scholars Grant**, no later than 5:00pm, Friday, November 16, 2012.

Questions should be submitted to Carole Tolley, Office of the Dean, Purdue University Libraries - ADMN, email: tolleyc@purdue.edu., telephone: 765-494-2900; fax: 765-494-0156,
ExxonMobil will interview students interested in petroleum geoscience-related careers in these areas:

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<th>Exploration</th>
<th>Development</th>
<th>Production</th>
<th>Geophysics Specialties</th>
<th>Research</th>
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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 postdoctoral 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**
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<tr>
<th>SUMMER RESEARCH OPPORTUNITIES</th>
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<td><strong>National Science Foundation</strong></td>
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<td><strong>National Institute of Standards &amp; Technology</strong></td>
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<td><strong>Rochester Institute of Technology</strong></td>
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<td><strong>Nanotechnology Summer Internships</strong></td>
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<td><strong>Massachusetts Clean Energy Internship Program</strong></td>
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ATTENTION ALL UNDERGRADS!

Doing research? Want to get published?

JPUR PRESENTS: 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