EAPS SEMINARS
No Seminar this week – Happy Thanksgiving

EAPS PRESENTATIONS

Professor Indrajeet Chaubey gave a keynote address titled “Ecohydrologic impacts of land use, land management, and climate change in the Midwest USA” at 2013 China-US Annual Workshop on Environmental Health and Green Development. Gatlinburg, TN. November 18.

Professor Jon Harbor, gave a presentation in the Department of Geography and Geology, National University of Mongolia, Ulaanbaatar, on November 21 entitled “Reconstructing spatial and temporal patterns of paleoglaciation in central Asia”.

On Behalf of Prof. Qianlai Zhuang, PhD graduate student Zhenong Jin gave a talk, entitled “Effects of Permafrost Dynamics on Carbon Dynamics in Northern High Latitudes” to the 50th Permafrost Workshop, held at Purdue University on November 15th.

Professor Qianlai Zhuang delivered an oral presentation, entitled "Incorporating the effects of permafrost dynamics into a dynamic vegetation model to improve the estimation of vegetation distribution and carbon cycling in northern high latitudes during the 21st century" to the International Biogeography Society, IBS Special Meeting, Nov. 15-18, Montreal, Canada.

EAPS IN PURDUE TODAY
EARTH, ATMOSPHERIC AND PLANETARY SCIENCES
ALUMNUS GIFT CREATES FIRST ENDOWED CHAIR

WEST LAFAYETTE, Ind. - Stephen R. Brand, a Purdue University earth, atmospheric and planetary sciences alumnus, and his wife, Karen, have given a gift to create the department’s first endowed chair.

The Stephen and Karen Brand Endowed Chair will be used to recruit a researcher in the area of unconventional energy resources to the Department of Earth, Atmospheric and Planetary Sciences.

"From an energy perspective, exploration of unconventional resources in oil and gas is where the future is headed," Stephen Brand said. "We hope this chair will help Purdue capitalize on its strengths in geology and engineering to build and expand knowledge in this emerging area to help solve the energy problem and offer students the opportunity to learn in-demand skills that will set them apart from other graduates."

Unconventional resources is a term used for oil and gas extracted through methods other than conventional oil wells and includes the alternative energy sources of shale gas, shale oil, petroleum from tight sands and coal, Brand said.

"Breakthroughs in the areas the Brand chair will study are the world’s best hope for affordable, plentiful energy and economic uplift," Purdue President Mitch Daniels said. "We must invest in research to find other ways to create the energy we need. The Stephen and Karen Brand Endowed Chair will provide the platform from which Purdue can grow into a leader in maximizing these new possibilities in concert with new industry and government partners."
Through a combination of the Brands’ gift and other designated university matching funds, the total funding for the endowed chair will be $2 million.

“The Brands’ generous gift will have a huge impact on the transformational energy research that goes on in the College of Science,” said Jeffrey Roberts, the Frederick L. Hovde Dean of the College of Science. “The field of unconventional energy is an important and attractive area for our students to explore. This chair will help them along their journey.”

Stephen Brand earned master’s and doctorate degrees in geology from Purdue in 1973 and 1976, respectively. He also was named an outstanding alumnus by Purdue’s Department of Earth, Atmospheric and Planetary Sciences in 2010 and a distinguished alumnus by Purdue’s College of Science in 2013.

He began his career in 1976 with Phillips Petroleum Company, which would later become ConocoPhillips, as a geologist for exploration and production. He rose through the ranks and eventually served as president of Australasia, then vice president of worldwide exploration and business development for exploration and production, and senior vice president of technology (R&D). During his tenure as senior vice president of technology, programs were developed and initiated in nanotechnology, algae biofuels, low carbon hydrogen, organic solar cells, carbon dioxide capture technology and dieselization.

Brand is currently a member of the SM Energy and BPZ Energy Board of Directors, an advisory board member and senior executive adviser for Welltec, and a science advisory board member for Glori Energy. He also is a member of the Accenture Global Energy Board, the Biofuels Technical Review Panel of the National Renewable Energy Laboratory and the Technology Task Group Chair for the recently completed National Petroleum Council’s Advancing Technology for America’s Transportation Future study.

“I wanted to repay the department that provided me with not only a top-of-the-line technical education to thoroughly analyze various types of problems, but also with the tools to creatively and pragmatically solve problems and apply that knowledge,” he said. “I credit Purdue professors’ guidance and the educational philosophy at Purdue with helping me develop a critical thought process that allowed me to fully comprehend, analyze and solve the problems I would face in the future, which was essential to my career development.”

Brand was born in Owatonna, Minn., and earned his bachelor’s degree in geology from the University of Minnesota, Duluth, which also has recognized him as a distinguished alumnus. The Brands currently live in Houston.

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EAPS NEWS

Purdue Reception at the 2013 AGU Fall Meeting

The Purdue Reception at the 2013 AGU Fall Meeting in San Francisco, CA is on Wednesday, December 11 from 7 pm-9:30 pm at the Thirsty Bear Brewing Company (661 Howard St). All EAPS faculty, students, and alumni are invited!

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PRF International Travel Grants for FY13-14

The purpose of the International Travel Grant Program is to assist Purdue faculty members in scholarly attainment by providing a portion of the travel costs for tenured, tenure-track, or research faculty who will play an active role (presenting papers or serving as officials) at recognized international meetings. The awards provide $1,000 to defray any/all approved travel expenses up to the award limit. Puerto Rico, Mexico and Canada are NOT considered international travel and do not qualify for this grant.

An application form can be obtained by selecting appropriate links on the following Web page: http://www.purdue.edu/research/vpr/funding/itg.php. Refer to this page, especially the “Important Reminders”, to determine if the intended travel is eligible for support and for other general information.

The College requests the following additional information:

1. Invited speakers should include a copy of the letter of invitation.

The College has traditionally observed the following order of priorities:

1. Give a major platform address attended by a large audience;
2. Serve as a meeting or session chairperson;
3. Give a minor address or present a contributed paper;

Please note: mere attendance at a meeting does not justify support. In addition, poster presentations are not highly valued.

Deadline to submit to Department Head (via Barbara at barbara@purdue.edu): Monday, Dec 2nd.

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2014 North-Central Geological Society Meeting

North-Central Geological Society of America in Lincoln, Nebraska, April 24-25, 2014, promises to be a rewarding experience for all. The meeting needs you, however, in order to be successful, so please submit an abstract! Examine the list of interesting and highly relevant theme sessions that have been proposed and remember that we will have discipline sessions as well! (see attached flyer for further information)

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CAMPUS NEWS

Simplified Desk-Side Waste Disposal Process

In response to numerous and repeated requests for change, Physical Facilities is announcing a simplified desk-side waste collection process. Effective Dec. 1, all office waste can be disposed of in the blue desk-side receptacles by putting anything recyclable (paper, cans, bottles) in one section, and non-recyclables (food waste, snack wrappers, facial and bathroom tissue) in the other. In making this change, Physical Facilities and the Office of University Sustainability hope to increase the convenience of waste disposal.

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POSTDOCS AND GRADUATE STUDENTS
AGI/SCHLUMBERGER FELLOWSHIP IN GEOSCIENCE COMMUNICATION
Schlumberger, together with the American Geosciences Institute, is funding a 6 month, paid Fellowship in Geoscience Communications based at the AGI HQ in Alexandria, VA starting early next year. See attached for additional details.

Financial Fitness in Negotiating Job Offers – December 3, 2013, 1:30 PM
Be prepared for negotiating your job offers by enhancing your financial knowledge. Bob Falk, President of Purdue Federal Credit Union, will speak about:
• developing a budget,
• managing your debt,
• building good credit,
• saving money,
• mortgage rates, and
• investment strategies
Register at https://ias.itap.purdue.edu/rgs/wgb_workshop.disp_online_workshop

Preparing Future Faculty
Doctoral students and postdocs are eligible to register for Preparing Future Faculty - GRAD 59000 (CRN 37260). PFF explores faculty roles and responsibilities as they relate to the missions of an institution of higher education, and the type of institution including community colleges, liberal arts colleges, research universities, and minority-serving institutions.
• Tuesdays, 1:30 to 3:20 p.m.
• 2 credit hour course
• Pass/No Pass grading system.
• Grad students - Register through myPurdue.
• Postdocs – email your PUID to clynch@purdue.edu

13th INTERNATIONAL SWISS CLIMATE SUMMER SCHOOL
Swiss Climate research, the network of leading Swiss institutions in climate and climate impact research, is pleased to announce the 13th International Swiss Climate Summer School. It will take place on August 31-September 5, 2014 in the scenic Swiss Alpine village of Grindelwald. The summer school has its focus on “Linking land use, land cover and climate”. The school is open internationally to PhD and postdoctoral researchers. Participation is highly competitive and will be limited to a maximum of 70.
Deadline for applications is December 20, 2013. Detailed information and the application form are available at: http://www.oeschger.unibe.ch/education/summer_school/2014/index_en.html

THE NATIONAL RESEARCH COUNCIL OF THE NATIONAL ACADEMIES FELLOWSHIP OPPORTUNITIES
The National Research Council of the National Academies sponsors a number of awards for graduate, postdoctoral and senior researchers at participating federal laboratories and affiliated institutions. These awards include generous stipends ranging from $45,000 - $80,000 per year for recent Ph.D. recipients, and higher for additional experience. Graduate entry level stipends begin at $30,000. These awards provide the opportunity for recipients to do independent research in some of the best-equipped and staffed laboratories in the U.S. Research opportunities are open to U.S. citizens, permanent residents, and for some of the laboratories, foreign nationals.
Detailed program information, including online applications, instructions on how to apply and a list of participating laboratories, is available on the NRC Research Associateship Programs Website. More detailed information and an online application can be found at www.nationalacademies.org/rap.
Questions should be directed to the NRC at 202-334-2760 (phone) or rap@nas.edu.
Applicants should contact prospective Adviser(s) at the lab(s) prior to the application deadline to discuss their research interests and funding opportunities.

NATIONAL PHYSICAL SCIENCE CONSORTIUM Graduate Fellowship in the Physical Sciences
The National Physical Science Consortium (NPSC) is a unique partnership of industry, government and higher education. NPSC helps its partners to recruit, identify, select, and support outstanding U.S. doctoral students. The Fellowship Program of the National Physical Science Consortium (NPSC) is again open for receipt of applications. NPSC offers two programs.

1. The Traditional NPSC Program provides a two-phase, six-year fellowship. Initial support is for two or three years, depending on the employer-sponsor. If the student makes satisfactory progress and continues to meet the conditions of the award, support may continue for a total of up to six years. Students typically apply while seniors in college.
2. The Dissertation Support Program provides support while the graduate student conducts dissertation research. Students should apply in the year prior to the beginning of their dissertation research program, but not until they can describe their research at least in general terms.

To learn more and to apply online, go to www.npsc.org. The deadline for the online application is November 30, 2013.
2014 COLLEGE OF SCIENCE GRADUATE STUDENT INTERNATIONAL TRAVEL AWARDS
For full time PhD student travel between January 1, 2014 and June 30, 2014. Two or three awards ranging from $600-$800 for international travel will be awarded. Deadline: December 2, 2013. See attached flyer for additional information.

UNDERGRADUATE AND GRADUATE STUDENT INFORMATION
2014 SUMMER TERM INTERNSHIP/FELLOWSHIP OPPORTUNITIES
The Office of Science / Office of Workforce Development for Teachers and Scientists (WDTS) is pleased to announce that it is accepting applications to its 2014 Summer Term internship/fellowship opportunities at Department of Energy (DOE) Laboratories. These competitive, paid internships, are for 10 weeks during the Summer Term (May to August timeframe), and include support for travel and housing.

The three programs accepting applications are:

- Science Undergraduate Laboratory Internship (SULI). More information about SULI and access to the online application can be found at http://science.energy.gov/wdts/suli/
- Community College Internships (CCI)
  More information about CCI and access to the online application can be found at http://science.energy.gov/wdts/cci/
- Visiting Faculty Program (VFP).
  More information about the VFP and access to the online application can be found at http://science.energy.gov/wdts/vfp/

Applications for these three programs must be completed and submitted online by 5:00 PM ET on January 10, 2014 (including all required application materials and recommendations).

A Note from Our Academic Counselor

The Department of Energy (DOE) Scholars Program is now accepting applications for Summer 2014. Visit http://orise.orau.gov/doescholars for more information or to apply. Deadline is January 12, 2014.

The DOE Scholars Program offers unique opportunities that introduce students or post-graduates to the agency's mission and operations. Participants in the DOE Scholars Program gain a competitive edge as they apply their education, talent and skills in a variety of scientific research settings within the DOE complex. Appointments are available in a variety of disciplines at participating DOE facilities nationwide.

Being selected as a DOE Scholar offers the following benefits:

- Career possibilities with the nation’s leading sponsor for scientific research
- Opportunities to learn from top scientists and subject matter experts
- Stipends of up to $650 per week (depending on academic status)
- Travel arrangements to and from appointment site

Applicants must be US Citizens and undergraduates, graduates or post-graduates of an accredited college or university. The program is open to majors in: Engineering; Physical Sciences; Environmental Sciences; Computer Science and Information Technology; Physics; Business; Policy; Program Management; Mathematics; Statistics; Safety and Health; Accounting and Finance; Law; Communications; and other related areas. Want to learn more about the DOE Scholars program? E-mail doescholars@orise.orau.gov or visit http://orise.orau.gov/doescholars.

Space Camp Internship Opportunity

Inspire future astronauts, fighter pilots and engineers of tomorrow. Crew Trainers lead teams of young people and adults through their Space Camp, Aviation Challenge Camp and Robotics Camp Experience at the U.S. Space & Rocket Center where Crew Trainers work with guests and trainees to experience firsthand the past, present and future of America’s space program and coach trainees through astronaut, aviation and robotics training experiences. They accept current students and recent graduates.

Requirements:

- Open availability
- Be available for at least six months after training
- Must be 20 years old by date of hire
- Minimum one year’s experience working with youth
- Have a desire to learn and teach space, aviation and robotics

How to Apply:
Submit a complete application including:

- Online application
- College transcript with at least 30 completed college credits (Unofficial transcripts are accepted)
- Three letters of reference from professional acquaintances (coach, mentor, professor, manager, etc. Letters from family member and friends will not be accepted)
- Successful completion of the Space Camp Crew Trainer Training Program

Contact Information:
U.S. Space & Rocket Center
One Tranquility Base
Huntsville, Alabama 35805
1-800-637-7223, ext. 7112
www.spacecamp.com
(see attached flyer)
November Birthdays

James Ogg – 25th
Paul Shepson – 29th

HAPPY THANKSGIVING!
North-Central Section Geological Society of America  
April 24-25, 2014  Cornhusker Marriott Hotel  Lincoln, NE

WE NEED YOU!  
Please present your work in Lincoln in April.

Technical Program Chairs  Dr. Paul Hanson (phanson2@unl.edu) & Dr. David Loope (dloope1@unl.edu)

PROPOSED TECHNICAL SESSIONS

Rivers, Past and Present: Sediments, Stratigraphy, and Geomorphology  
Chris Fielding (University of Nebraska-Lincoln)  
Jim Best (University of Illinois at Urbana-Champaign)  
cfielding2@unl.edu; jimbest@uiuc.edu

Cenozoic Stratigraphy of the Great Plains  
Greg Ludvigson (University of Kansas), Jon Smith (University of Kansas), Robert M. Joeckel (University of Nebraska-Lincoln)  
gludvigson@kgs.ku.edu; jsmith@kgs.ku.edu; rjoeckel3@unl.edu

Vertebrate Paleontology from the Appalachians to the Rockies  
Shane Tucker (University of Nebraska-Lincoln), George Corner (University of Nebraska-Lincoln), Robert M. Joeckel (University of Nebraska-Lincoln)  
stucker3@unl.edu; rcorner1@unl.edu; rjoeckel3@unl.edu

Frontiers in Geomicrobiology and Biogeochemistry  
Karrie A. Weber (University of Nebraska-Lincoln)  
kweber2@unl.edu

Structure, Tectonics and Geologic Evolution of the North American Interior  
Caroline M. Burberry (University of Nebraska-Lincoln), Robert M. Joeckel (University of Nebraska-Lincoln) and Jesse T. Korus (University of Nebraska-Lincoln)  
cdburberry2@unl.edu; rjoeckel3@unl.edu; jkorus3@unl.edu

Carbonatites and Other Alkaline Rocks  
Richard M. Kettler (University of Nebraska-Lincoln), Philip Verplanck (USGS) and Benjamin Drenth (USGS)  
rkettler1@unl.edu; plv@usgs.gov; bdrenth@usgs.gov

New Insights into the White River Chronofauna  
Clint Boyd (South Dakota School of Mines)  
clintboyd@stratfit.org

Quaternary Time Machine: Methods and Analyses of Soils and Sediments to Reveal Secrets of Past Environments  
Maija Silpola (University of Iowa) and M. Kathryn Rocheford (University of Iowa)  
majsilpola@uiowa.edu; kat-rocheford@uiowa.edu

Advances in Invertebrate Paleecology, Taphonomy, and Ichnology: Insights from the North American Midcontinent and Beyond  
James R. Thomka (University of Cincinnati) and Rebecca L. Freeman (University of Kentucky)  
thomkajr@mail.uc.edu; rebecca.freeman@uky.edu

Quaternary Evolution of the Central Lowlands and Great Plains  
Charles W. Rovey III (Missouri State University) and J. Elmo Rawling, III  
charlesrovey@missouristate.edu; rawling@uwplatt.edu

Applications of Optically Stimulated Luminescence Dating in Quaternary Studies  
Joel Q. Spencer (Kansas State University) and Paul R. Hanson (University of Nebraska-Lincoln)  
joelspen@ksu.edu; phanson2@unl.edu

The Midcontinent Rift System and Beyond: New Developments in Central North American Precambrian Geology  
Benjamin J. Drenth (USGS), G. Randy Keller (University of Oklahoma), and Joshua M. Feinburg (University of Minnesota)  
bdrenth@usgs.gov; gkeller@ou.edu; feinberge@umn.edu

Applied Geology: Environmental, Engineering, Hydrogeology, Geotechnical and Exploration Geophysics  
Terry West (Purdue University)  
trwest@purdue.edu

Cultural geology: Capitol buildings, heritage stone, parks, and more  
Joe Hannibal (Cleveland Museum of Natural History) and Nelson R. Shaffer (Indiana Geological Survey)  
jhanniba@cmmh.org; shaffern@indiana.edu

Undergraduate Research poster session, sponsored by the Council on Undergraduate Research, Geoscience Division  
Robert Shuster (University of Nebraska-Omaha)  
rshuster@unomaha.edu

Pennsylvanian Cyclothems and Stratigraphy of the Midcontinent and Illinois Basins  
John P. Pope (Northwest Missouri State University)  
jpope@nwmssouri.edu

Geoscience Education for K-16: Novel Approaches and Current Research  
Katie Lewandowski (Eastern Illinois University) and Mindi Sears (University of Nebraska-Lincoln)  
kjlewandowski@eiu.edu; msesar@s2.unl.edu

REMEMBER: There will be general discipline sessions as well! All of the geosciences will be represented.
AGI/Schlumberger Fellowship in Geoscience Communication

The American Geosciences Institute is accepting applications for the AGI/Schlumberger Fellowship in Geoscience Communication. The successful candidate will play a leading role in AGI's Critical Issues program, a new initiative to improve the understanding and use of geoscience information by decision makers at federal, state, local, and individual levels.

This program is part of AGI's Center for Geoscience Education and Public Understanding; more information is available at http://geocntr.org/critical-issues/.

About the Fellowship
The fellowship offers a superb opportunity to link the geoscience community and our understanding of the Earth to decision-making processes throughout the country.

Primary duties and responsibilities will include:
• Convincing decision makers at all levels of the relevance and importance of geoscience information
• Creating information products that will enable decision makers to find, understand, and use geoscience information when making decisions on critical issues
• Fostering communication between geoscientists and decision makers via forums, webinars, social media, and other channels
• Providing regular status reports on fellowship activities and achievements

The fellowship is a 6-month appointment, based at AGI headquarters in Alexandria, VA. The fellowship carries a stipend of $4,000 per month.

Qualifications
The successful candidate will be a highly creative communicator who is proficient in traditional and new media and can deliver geoscience information effectively and efficiently to targeted audiences. We seek applicants with excellent writing and graphical skills who have experience in web content development and social media, in addition to a broad geoscience background. Enthusiasm and team spirit are essential. Candidates should have completed or be currently pursuing a Master's or higher degree.

Application Procedures
Interested candidates should submit:
• cover letter with the names and contact information of three references
• brief statement of purpose, which should outline why you are interested in the fellowship, what you would bring to the fellowship, and what you hope to gain from the fellowship (maximum 1,000 words)
• curriculum vitae

Please submit materials as a single Word document (.doc or .docx) or PDF (.pdf) using our online submission form: http://www.agiweb.org/gap/geocntr/fellowship/

All application materials are due on December 11, 2013. The starting date for the Fellowship will be based on the schedule of the successful candidate, but is expected to be around February 1, 2014.

Inquiries only to cipinfo@agiweb.org.

AGI is an equal opportunity employer and especially welcomes applications from women and minorities.
2014 College of Science
Graduate Student International Travel Awards

Deadline: December 2, 2013
For travel between January 1, 2014 and June 30, 2014

~ 2 or 3 awards ranging from $600 to $800 for international travel will be awarded~

Prerequisites:
• must be a full-time PhD student
• must be making an oral or poster presentation at an international conference

Priority will be given to:
• travel to make an oral presentation at a conference
• attendance at an interdisciplinary conference
• students who have passed their prelims

To apply, please send electronically as one file:
• CV (2 page limit)
• brief summary of research (1 page limit)
• brief statement of purpose for attending conference specifying whether your presentation is oral or poster
• provide web link to conference
• with a letter of support from research advisor as a separate electronic document

Send applications to Ranae Wetli at rjwetli@purdue.edu
WHERE ARE THEY NOW?

Former Space Camp Crew Trainers work in leading industries all over the world!

- Marshall Space Flight Center
- Johnson Space Center
- Kennedy Space Center
- NASA Headquarters
- Boeing
- Lockheed Martin
- United Launch Alliance
- Northrup Grumman
- ATK
- Dynetics
- SpaceX
- Blue Origin
- Sierra Nevada
- Virgin Galactic
- Army
- Navy
- Air Force
- Marines
- Coast Guard

ARE YOU FASCINATED BY EMERGING TECHNOLOGY IN SPACE EXPLORATION, AVIATION OR ROBOTICS?

Follow Us On Facebook | SpaceCampUSA
YOU make all the difference!
Crew Trainers lead teams of young people and adults through their Space Camp®, Aviation Challenge Camp®, and Robotics Camp experience at the U.S. Space & Rocket Center®.

At the U.S. Space & Rocket Center, Crew Trainers work with guests and trainees to experience firsthand the past, present and future of America’s space program at the most spectacular space attraction on Earth. Coach trainees through once-in-a-lifetime astronaut, aviation and robotics training experiences.

I’m an aerospace engineer so I understand aerospace materials, but to be able to teach it so that others could understand it made me feel like a true leader.”
- Robert Friedlein
Aerospace Engineer
student at UAH

“I’ve worked at Space Camp as a Crew Trainer and had a very positive influence on me. I was able to learn a lot about customer service skills and was provided with opportunities to learn, teach and work with a diverse group of colleagues.”
- Andrew Gonzales
Millennium Engineering and Integration Company

Space Camp has challenged me to use my critical thinking skills in a variety of avenues — from conceptual, to problem solving, to application — things I could not gain from a classroom.”
- Latina Rivers
Ph.D Material Science student at UAH

REQUIREMENTS
• Open availability
• Be available for at least six months after training
• Must be 20 years old by date of hire
• Minimum one year experience working with youth
• Have a desire to learn and teach space, aviation and robotics

HOW TO APPLY
Submit a complete application including:
• Online application
• College transcript with at least 30 completed college credits (Unofficial transcripts are accepted.)
• Three letters of reference from professional acquaintances (coach, mentor, professor, manager, etc. Letters from family members and friends will not be accepted.)
• Successful completion of the Space Camp Crew Trainer Training Program

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