EAPS MEETINGS

Tuesday, November 19, 3:00 pm, HAMP 3201
EAPS Faculty Meeting

EAPS SEMINARS

Thursday, November 21, 3:30 pm, HAMP 1252
EAPS Dept. Seminar: Professor Caleb Fassett, Mount Holyoke College "Rates of Landform Evolution on the Moon and Mars."

EAPS DEFENSES

Thursday, November 21 @ 1:30 p.m., ARMS 3109
Rene Paul Acosta (MS candidate) "The Influence of Tibetan Plateau Elevation on the Global and Asian Monsoon." Co-Advisors: Ernest Agee/Matthew Huber

Friday, November 22 @ 1:30 p.m., HAMP 2201
Jonathan Buzan (MS candidate) "Implementation and Model to Model Intercomparison of 12 Heat Stress Metrics." Co-Advisors: Ernest Agee/Matthew Huber

EAPS PRESENTATIONS

Sheryl Braile and Larry Braile presented a one-hour workshop for 55 teachers entitled "Earthquake Shaking - Using Model Buildings and a Simple Shake Table to Study the Effects of Earthquake Vibrations and Damage" at the California Science Education Conference in Palm Springs, California on October 25, 2013.

Larry Braile and Sheryl Braile presented a two-and-one-half hour workshop for 65 teachers entitled "Earthquakes - A Workshop for Teachers" at the California Science Education Conference in Palm Springs, California on October 26, 2013.

EAPS PUBLICATIONS

http://dx.doi.org/10.1016/j.quaint.2013.07.047

EAPS NEWS

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.

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-9:30pm at the Thirsty Bear Brewing Company (661 Howard St). All EAPS faculty, students, and alumni are invited!
7th ANNUAL AMERICAN CONFERENCE ON NEUTRON SCATTERING (ACNS)

Oak Ridge National Laboratory will be hosting the 7th annual American Conference on Neutron Scattering (ACNS) June 1-5, 2014 in Knoxville, TN. The conference will be held at the Crowne Plaza Hotel. In addition to ORNL, the conference is sponsored by the Neutron Scattering Society of America and will feature invited and contributed talks, poster sessions, tutorials, and an industrial exhibit.

Important dates:
- November 20, 2013: deadline to nominate speakers
- January 6, 2014: abstract submission begins
- March 10, 2014: abstract submission ends

Additional information may be found at http://www.mrs.org/acns-2014/ or you may contact Jaime A. Fernandez-Baca at ORNL (fernandezbj@ornl.gov or 865.576.8659.

ORANGE LEAF FUNDRAISER FOR PUGS

PUGS has set up an official fundraiser at Orange Leaf on Tuesday, November 19th. Anyone can make a frozen yogurt purchase and a portion of the funds will go to PUGS. How: Present the flyer in the Newsletter (or pick up in the EAPS Main Office HAMP Rm. 2196) to the cashier for the money to go to PUGS. Orange Leaf is 308 W. State Street - I (see attached flyer)

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)

POSTDOCS AND GRADUATE STUDENTS

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

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.

POST-DOCTORAL POSITION

UNIVERSITY OF MIAMI

Applications are invited for a post-doctoral position at the Rosenstiel School of Marine and Atmospheric Sciences (RSMAS), University of Miami. The position is for 1 year initially, with possible renewal up to 2.5 years based on performance. Review of applications will begin Dec. 9.

The project’s goal is to infer the sensitivities of atmospheric convection to ambient humidity, using field observations from the DYNAMO campaign (held in 2011-12 in the equatorial Indian ocean). Key observations will be humidity data, including time-height profiles we will need to retrieve or deduce from multichannel passive microwave remote sensing, as well as data on convective cloud systems, such as Doppler radar-derived wind divergence profiles we will need to derive and validate. Key tools will include multivariate (matrix) linear algebra, for statistical retrievals (inversions) and relationship estimation, but well grounded in meteorological physical sensibility.

The successful applicant will have a PhD in atmospheric or related science, preferably with prior experience in data analysis of relevant observations, and good skills in scientific deduction and communication of scientific findings.

Applicants should include a 1-page statement of research interests and relevant experience, and a CV including contacts for three references, to: http://um.hodesiq.com/job_detail.asp?JobID=4044528 by Dec. 9 for certainty of consideration. Questions may be directed to Dr. Brian Mapes, mapes@miami.edu.
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.

ENVIRONMENTAL GEOLOGY ASSISTANT PROFESSOR POSITION

The University of North Carolina at Pembroke invites applications for a tenure-track Assistant Professor in the Department of Geology & Geography beginning August 15, 2014. We seek applicants in any specialization of environmental geology. The successful candidate will teach environmental geology, general education classes, and courses in their area of expertise as part of our new major in Geo-Environmental Studies. Applicants should be strongly committed to excellence in teaching, advising, and mentoring undergraduates, and to working in a multicultural environment that fosters diversity. Please visit our website (http://www.uncp.edu/geo/) to learn more about departmental facilities including GPR. The Ph.D. is required at the time of appointment. Applicants should submit materials at https://jobs.uncp.edu including cover letter, curriculum vitae, copies of transcripts, statements of teaching and research interests (1 page each), and contact information (address, email, phone number) for three references.

Address inquiries to: Dr. Martin B. Farley, Department of Geology & Geography, martin.farley@uncp.edu. Review of applications will start on December 2, 2013 and will continue until the position is filled. EEO/AA Employer

UNDERGRADUATE AND GRADUATE STUDENT INFORMATION

Ford Foundation Fellowship –

Seeks to increase the diversity of the nation’s college and university faculties by increasing their ethnic and racial diversity, to maximize the educational benefits of diversity, and to increase the number of professors who can and will use diversity as a resource for enriching the education of all students. The predoctoral fellowships provide three years of support for individuals engaged in graduate study and the dissertation and postdoctoral fellowships provide one year of support.

**November 20, 2013** – Predoctoral Fellowship - [http://sites.nationalacademies.org/PGA/FordFellowships/PGA_047958](http://sites.nationalacademies.org/PGA/FordFellowships/PGA_047958)

**November 15, 2013** – Dissertation Fellowship - [http://sites.nationalacademies.org/PGA/FordFellowships/PGA_047959](http://sites.nationalacademies.org/PGA/FordFellowships/PGA_047959)

**November 15, 2013** – Postdoctoral Fellowship - [http://sites.nationalacademies.org/PGA/FordFellowships/PGA_047960](http://sites.nationalacademies.org/PGA/FordFellowships/PGA_047960)

NSF East Asia & Pacific Institutes Fellowship – November 25, 2013

The National Science Foundation International Science & Engineering section provides an opportunity for U.S. graduate students to participate in research experiences in summer 2014 through the East Asia & Pacific Summer Institutes (EAPSI) program. EAPSI supports graduate students each year to do research in the lab of their choice in any of seven locations: Australia, China, Japan, Korea, New Zealand, Singapore or Taiwan. An EAPSI award includes a $5,000 stipend and round trip air ticket provided by NSF, and a living allowance provided by NSF’s counterpart funding agency in the host location. The program is open to U.S. citizens and permanent residents enrolled in research-oriented graduate programs in NSF-funded STEM fields. The U.S. graduate student is the PI on an EAPSI proposal. The EAPSI program announcement 13-593 and related information are available at [http://www.nsf.gov/eapsi](http://www.nsf.gov/eapsi)

Link Foundation Energy Fellowship – December 1, 2013

In an effort to foster education and innovation in the area of societal production and utilization of energy, the Link Foundation invites applications for 2-year fellowships of $27,000/year for students working toward a Ph.D. degree. [http://www.linkenergy.org/guidelines.html](http://www.linkenergy.org/guidelines.html)

ASEE – SMART Fellowship Program – December 16, 2013

SMART Scholarships are awarded to applicants who are pursuing a degree in, or closely related to, one of the Science, Technology, Engineering and Mathematics (STEM) disciplines. The grants are paid at a rate of $25,000 - $38,000 per year depending on prior educational experience. [http://smart.asee.org/](http://smart.asee.org/)


The National Defense Science and Engineering Graduate (NDSEG) Fellowship is a highly competitive, portable fellowship that is awarded to U.S. citizens and nationals who intend to pursue a doctoral degree in one of fifteen supported disciplines. NDSEG confers high honors upon its recipients, and allows them to attend whichever U.S. institution they choose. NDSEG Fellowships last for three years and pay for full tuition and all mandatory fees, a monthly stipend, and up to $1,000 a year in medical insurance. [http://ndseg.asee.org/about_ndseg](http://ndseg.asee.org/about_ndseg)

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).

DEPARTMENT OF ENERGY SCHOLARS PROGRAM
The Department of Energy (DOE) Scholars Program is now accepting applications for Summer 2014. Application 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. Applicants must be US Citizens and undergraduates, graduates or post-graduates of an accredited college or university. For application information and questions contact: Leslie Fox, Project Manager, (865) 241-3319 or Leslie.Fox@orau.org.

Want to learn more about the DOE Scholars program? E-mail doescholars@orise.orau.gov or visit http://orise.orau.gov/doescholars.

A Note from Our Academic Counselor

Credit-bearing Experiential Summer Opportunities for College of Science Students
Approved by some or all of College of Science Departments for direct credit:
• London, Beijing and Sydney Internship Programs (not an option for Math majors)
• CIEE - Monteverde Tropical Ecology + Conservation in Costa Rica (approved for BIOL)
• DIS – Copenhagen (related coursework is mostly health/medical/biology/neuroscience)
• IFSA-Australia Summer Public Health (students take one class, international health and indigenous cultures, a history class, and do a community engagement project)
• Semester at Sea (offers biology, marine biology, biomed, geography, and environmental sci and most of the classes require a field studies component)
• UNSW-Australian Environment, Wildlife & Conservation (travels all over Australia, lots of hands-on learning opportunities…)

University College Dublin Internship Program (students would take an Irish History class and do an internship)
• Any School for Field Studies (SFS) Program… They have four-week, four-credit summer programs in Tanzania, Australia and New Zealand (CoS-approved), Turks & Caicos Islands, and Costa Rica. Some of the locations are set up so students could do two four week sessions and therefore stay abroad eight weeks and earn eight credits. These lean towards biology, health, environmental issues, wildlife, and/or marine biology…

Currently not approved for direct credit by the College of Science but can be:
• SIT-Public Health & Traditional Chinese Medicine (in China)
• CIEE – Dominican Republic (public health program and Spanish)
• Nepal-Geoscience in the Himalaya (focuses on field geoscience, geohazards, and environmental science in the context of human interactions and sustainable development).
• Science and Engineering Projects in Hannover and Clausthal (research internship)

University of Stuttgart (SUPER - research)(no flyer up yet; more about this program at this link: http://www.ia.uni-stuttgart.de/super/super.html In 2014, the program will expand to include more CoS disciplines)

Departmental (not CoS) programs open to College of Science students:
• Animals & Food Security: an International Service Learning Experience (Romania; service learning)
• Cultural Engagement & Professional Development in Agricultural Communication (Romania; service learning)
• Ethnographic Field Methods: Indigenous Peoples, Conservation and Development in the Amazon (Brazil; service Learning)
• LALS Abroad: Global Internship (internship; Cartagena, Columbia)
• Education Maymester in Tanzania (service learning-teaching; Tanzania)

November Birthdays
James Ogg – 25th
Paul Shepson – 29th
IMPORTANT NOTICE ABOUT THIS NEWSLETTER

This newsletter is used as the primary information source for current and upcoming events, announcements, awards, grant opportunities, and other happenings in our department and around campus. Active links to additional information will be provided as needed. Individual email announcements will no longer be sent unless the content is time-sensitive. We will continue to include our publications, presentations and other recent news items as well. Those using paper copies of the newsletter should go to our newsletter archive on the EAPS website at www.purdue.edu/eas/ and Click on News to access active links as needed. Material for inclusion in the newsletter should be submitted to Terri Moore (terri@purdue.edu) by 5:00pm Thursday of each week for inclusion in the Monday issue.

If it is in the newsletter, we assume you know about it and no other reminders are needed. For answers to common technology questions and the latest updates from the EAPS Technology Support staff, please visit http://www.purdue.edu/eas/info_tech/index.php.

Also, as an additional resource for information about departmental events, seminars, etc., see our departmental calendar at http://eaps.purdue.edu.
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; jimbeste@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)
cburberry2@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@stratflt.org

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

Advances in Invertebrate Paleoecology, 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; rawlingj@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)
bdreth@usgs.gov; grkeller@ou.edu; feinberge@umn.edu

REMEMBER: There will be general discipline sessions as well! All of the geosciences will be represented.
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
Purdue University Geological Society

November 19th, 2013

Just grab a printed copy and show it to the cashier! More can be found in HAMP2169.

Our pick: "Mudslide" - vanilla yogurt, marshmallows, almonds, and hot fudge topping.