### EAPS WEEKLY NEWS

#### UPCOMING EAPS MEETINGS

**EAPS STAFF MEETINGS**

Thursday, Nov. 20th, 9:00-10:00 a.m.
HAMP 2201

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**EAPS RECEPTIONS AT CONFERENCES**

**GSA (Vancouver)**
Monday, Oct. 20, from 7:00 - 9:00 p.m.
Vancouver Hyatt Regency-Cypress Room

**SEG (DENVER)**
Monday, Oct. 27, from 6:00 - 8:00 p.m.
Denver Hilton Garden Inn-Element Ballroom

**AGU (SAN FRANCISCO)**
Wednesday, Dec. 17, from 7:00 - 9:00 p.m.
Thirsty Bear-Billar Room

**AMS (PHOENIX)**
Tuesday, Jan. 6, from 6:30 - 8:30 p.m.
TBA

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**FALL FACULTY MEETING SCHEDULE**

Tuesday, Oct. 7th and Nov. 18th, from 3:00-4:30 p.m.
HAMP 3201

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**EAPS OUTSTANDING ALUMNI EVENT**

Fri., Oct. 10th
HAMP 2201

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**EXTERNAL REVIEW**

Nov. 3rd & 4th

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**EAPS PRESENTATION**

On Aug. 4, Alex Gluhovsky gave the talk “Inference from short atmospheric time series” at the 2014 JSM (Joint Statistical Meetings) in Boston, MA.

### EAPS COLLOQUIA

**“MAKING WEATHER AND CLIMATE DATA MORE USABLE FOR AGRICULTURE ACROSS THE U.S. CORN BELT”**

Olivia Kellner
Tuesday, Sept. 30, 2014 at 4:00 p.m.
HAMP 2201

**“NEW PERSPECTIVES ON TIDEWATER GLACIER MASS CHANGE”**

Dr. Tim Bartholomous
University of Austin, TX
Thursday, Oct. 2, 2014 at 3:30 p.m.
HAMP 1252

(Please see attached fall 2014 EAPS Colloquia)

### EAPS NEWS

**PROFESSOR DARRYL GRANGER WINS THE WILEY AWARD FOR 2014**

The Wiley Award for the best paper published in BSG’s journal Earth Surface Processes and Landforms for 2014 (2013 volume) was awarded to Cliff Riebe (Wyoming) and Darryl Granger (Purdue) for their paper ‘Quantifying effects of deep and near-surface chemical erosion on cosmogenic nuclides in soils, saprolite, and sediment’ (ESPL 38: 523–533).

Their paper is a fundamental contribution which quantifies the extent to which overlooking effects of chemical erosion introduces bias in interpreting denudation rates from cosmogenic nuclides and was selected from over 100 articles as well as shorter contributions published in 2013.

Dr. Riebe was presented with the award by BSG President Ken Gregory and Wiley representative Fiona Murphy at the BSG Annual Conference at the University of Manchester (1st – 3rd September 2014).

[http://www.geomorphology.org.uk/award/6/winner/88](http://www.geomorphology.org.uk/award/6/winner/88)
SUBMIT AN ABSTRACT

AIR & WASTE MANAGEMENT ASSOCIATION’S 2015 ANNUAL CONFERENCE & EXHIBITION
Connecting the Dots: Environmental Quality to Climate
June 22-25, 2015 | Raleigh Convention Center | Raleigh, North Carolina

Call for Abstracts: Deadline is November 3, 2014

Don't miss your opportunity to be a part of A&WMA's 2015 Annual Conference & Exhibition. This is a great chance to share knowledge with your peers and boost your professional credentials. Submit your abstract today!

View the 2015 Call For Abstracts Topics.

For more information on the Call for Abstracts please contact Kate Fischer, A&WMA Technical Council Liaison, at +1-412-904-6029 or kfischer@awma.org.


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STUDENT SCHOLARSHIP AND AWARD OPPORTUNITIES

A&WMA is proud to recognize exceptional student at the 2015 Annual Conference & Exhibition.

Student Opportunities include:

- Student Platform Paper Award: submissions are due by November 3, 2014
- Student Poster Award: submissions are due by January 12, 2015
- Master Thesis Award: submissions are due by January 12, 2015
- Doctoral Dissertation Award: submissions are due by January 12, 2015

International Scholarships: applications are due by January 12, 2015

Inter-Mountain Oil and Gas Environmental Conference
October 29, 2014
Denver West Marriott | Golden, CO
www.awma.org/intermountain

FEATURED SPEAKERS

Opening Keynote
Shaun McGrath, Regional Administrator, EPA Region 8

Lunch Keynote
Dave Neslin, Partner, Davis Graham & Stubbs

View Conference Program

ONE WEEK LEFT TO SAVE

Register for the conference before October 1, 2014 and save up to $175.

Not a member of A&WMA? Register for the conference at the Nonmember rate and get a one-year A&WMA membership for free!

ABOUT THE CONFERENCE

This one-day conference will cover regional and broad scale topics on current oil and gas environmental issues in the Rocky Mountain states including air and water quality, fracturing, flaring, production curtailment, and Indian land issues. The conference will feature a State Air Directors Panel with high level executives from Colorado, Wyoming, Utah, North Dakota, and New Mexico. The Federal Panel on environmental issues includes representatives from the National Park Service, Bureau of Land Management, U.S. Forest Service, and U.S. Fish and Wildlife Service and the State Air Directors.

For more information on this conference please visit: www.awma.org/intermountain.

Click here for eligibility details.

WORKFORCE RECRUITMENT PROGRAM (WRP)

Are you a student or recent graduate with a disability who is looking for a job/internship for the future? Apply now to the Workforce Recruitment Program (WRP). The program is
COS INTERNATIONAL STUDENTS

Want to practice your English conversation skills? Email globalsciencepartners@purdue.edu and they will arrange for you to have practice time with an American student.

Find out what’s happening around campus and in the community for international students.

Like Facebook: Purdue CoS International Students

Global Science Partners’ International Film Festival
Oct 10 – “Life is Beautiful” (Italian) – tragi-comedy
Nov 7 - “Instructions Not Included” (Mexican) - Comedy
Nov 21 – “Hero” (Chinese) - Action/adventure starring Jet Li

FREE ADMISSION & FREE POPCORN

All movies begin at 7:00 p.m. in Wetherill (WTHR) Rm. 104

ENGLISH WRITING WORKSHOP

Grammar problems can hinder a document’s readability. The Writing Lab’s workshop "Improving Your Grammar" will be held Wednesday, October 1st in Heavilon Hall Rm. 220, where you’ll learn what the most frequent grammar problems are and how you can avoid them.

Upcoming English Writing Lab Workshops
Finding Sources for Your Research
Wednesday, October 15
12:00 – 1:00 pm

Improving Your Grammar II
Wednesday, October 29
12:00 – 1:00 pm

MLA/APA Documentation and Avoiding Plagiarism
Wednesday, November 5
12:00 – 1:00 pm

Personal Statements
Wednesday, November 19
12:00 – 1:00 pm

A. H. ISMAIL INTERDISCIPLINARY TRAVEL AWARD – OCTOBER 17, 2014

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. Please join the Fellows Community on Blackboard to apply.

INCENTIVE GRANT – DECEMBER 1, 2014

In general, two types of external fellowships are eligible; external multi-year fellowships or external dissertation fellowships. We hope that the proposals will be funded, but awarding of the Incentive Grant does not depend on the success of the proposal. Each of the targeted external fellowship programs provides premier multi-year funding for graduate study or dissertation year support. The program provides one award of $250 for one fellowship proposal to… …a select list of eligible multi-year fellowship programs and awards $100 to a select list of eligible dissertation fellowships. Only one award per student, per year is allowed. Please join the Fellows Community on Blackboard to apply.

ECOLOGICAL SCIENCE AND ENGINEERING SYMPOSIUM

Poster Session Callout - Register here - http://www.purdue.edu/gradschool/ese/symposium/poster.cfm


Cash Awards for both Competitions!

2014 ESE SYMPOSIUM
# SCIENCE: Effective Interdisciplinary Communication
Monday, October 20, 2014

Please see attached flyer for more information.

OTHER ANNOUNCEMENTS

UCLA RECRUITS FOR ASSISTANT PROFESSOR IN GEOLOGY

The Department of Earth, Planetary and Space Sciences seeks an assistant professor in geology. We encourage applicants from all sub-disciplines of geology but preference may be given to candidates with experience on both sides of the cover/bedrock interface or who complement existing strengths in tectonics, pale climate, geochronology, and sedimentology. Applicants should have a Ph.D. or equivalent in geological sciences or a related field. Selection will begin on October 1, 2014. Please include a curriculum vitae, list of publications, statement of teaching and research, names and email addresses of three referees, electronic copies of up to five significant publications, and a cover letter addressing how your experience fits the job description.

Electronic applications should be directed to the Chair of the Geology/Surface Processes Search Committee at https://recruit.apo.ucla.edu/apply/JPF00331.

Inquiries may be directed to: geologysurfaceprocesses_search@epss.ucla.edu.
ASSOCIATE ENGINEERING GEOLOGIST OR ENGINEERING GEOLOGIST OPENING
(Depending on qualifications)

CLOSING DATE: 10 OCTOBER 2014

The Illinois State Geological Survey at the University of Illinois Urbana-Champaign is currently seeking an Associate Engineering Geologist or Engineering Geologist (depending on qualifications). For more information and to apply, visit https://jobs.illinois.edu/academic-job-board and search by the reference number A1400327.

To apply, please visit https://jobs.illinois.edu/academic-job-board to complete an online profile and to upload a 1) cover letter, 2) résumé/CV, 3) the names and contact information (including e-mail addresses) of three professional references. All requested information must be submitted for your application to be considered. Incomplete information will not be reviewed.

For further information please contact Lori Walston-Vonderharr, Human Resources, Illinois State Geological Survey, at lwalston@illinois.edu or 217-244-2401.

STAYIN’ ALIVE WITH FREE HANDS-ONLY CPR TRAINING OCT. 1
(Rec Sports Center)
Oct. 1-One day only!
10 a.m., 10:45 a.m., 11:30 a.m., 12:15 p.m., 1 p.m., 2:30 p.m., 3:15 p.m.
The American Heart Association’s Hands-Only CPR Mobile Tour is coming to Purdue Oct. 1, and you’re invited! It’s a disco party you won’t want to miss!
Please see attached flyer for more information.

NUCLEAR POWER: PAST, PRESENT AND FUTURE
Sal Golun (Office of Nuclear Energy U.S. Department of Energy)
Thursday, October 16 at 7:00 p.m.
Loeb Playhouse
(Open to the public)
Please see attached flyer for more details.

PURDUE SCIENCE STUDENT COUNCIL (PSSC)
Purdue University Science Week
Sept. 29 – Oct. 3

MONDAY
PUGWASH presents: Exploring and Exploiting Cationic Porphyrins as DNA Agents
WTHR 104
7 pm
TUESDAY
Experiment Demos by American Chemical Society-Student Affiliates
Outside front steps of WTHR
12-3 pm
The Truth about Zombies: Documentary Movie Night
CL50 125
THURSDAY
Columbian Park Zoo presents: Animal Planet
KRCH 260
5-6:30 pm
An Evening Variety:
The Boys are back
MTHW 210
8:45-10 PM
FRIDAY
Science Jeopardy
LWSN B155
5-8 pm
5-8pm
WEDNESDAY
Computer Science USB presents: The Intersection of Art, Biology, Ethics, and Computer Science – A lecture by Prof. Gustavo Rodriguez-Rivera LWSN B151

BIRTHDAYS
Ernest Agee Oct. 2nd
Phillip Smith Oct. 2nd
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 Fallon Seldomridge (fseldomridge@purdue.edu) by 5:00pm on 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://calendar.science.purdue.edu/eas/seminars.

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![Comic Image]

There’s only one chocolate chip cookie left in the free food line! Hey! No cutting! This cookie is mine! Never mind. It’s raining. I’ll take it.

www.phdcomics.com
There exists an abundance of weather and climate data across the United States; however, its applicability and use in industry for informed decision making is lacking, especially in agriculture. Public consensus (from survey data) is that the data is too confusing and farmers do not know how to use it to make more informed decisions. Also, farmers distrust short-term forecasts, consequently distrusting long-term forecasts as well. This results in minimal use of forecast information in the decision making process of seasonal crop production despite the critical roles that temperature and precipitation play in corn production. As part of the Useful to Usable project, an El Niño Southern Oscillation and Arctic Oscillation climatology is generated from historical, observed weather data across the U.S. Corn Belt from 1981-2010 and developed into an online tool catered towards usability by cereal producers in the region with the goal of increasing farm profitability in light of climate variability and change. The social science inquiry, on-line tool development, and climatological findings are discussed in this seminar in hopes to help motivate scientists to consider public use and applicability of his or her research in effort to gain continued support of scientific research.

**Tuesday, September 30, 2014**

**4:00 p.m.**

**Room 2201 HAMP**

*Refreshments at 3:30 pm*

*Room 2201/ HAMP*
Seismicity, Seawater and Seasonality: Tracking Ice Loss From the Fronts of Tidewater Glaciers

Timothy C. Bartholomaus
University of Texas Institute for Geophysics

The largest and most rapidly changing glaciers on Earth flow into the ocean. Ice loss from these glaciers will be the largest contributor to sea level rise in coming centuries and is also the least certain component of the sea level budget. These uncertainties are driven in large part by the poor understanding of two processes by which tidewater glaciers and ice sheets lose ice at their termini: submarine melting by warm ocean water and mechanical iceberg calving.

The fronts of tidewater glaciers are among the most active and inaccessible geological environments. These challenges have limited the long duration, high resolution calving and melt measurements that yield insight. Using seismology and oceanography, I identify the magnitudes and variability of submarine melt and iceberg calving at Yahtse Glacier, a major tidewater glacier in southern Alaska. I find that the submarine portion of the glacier terminus melts at over 10 m/d during much of the year. In addition, cavitation of icebergs beneath the sea surface can generate seismometer-recorded "icequakes," revealing that calving varies seasonally and in response to ocean tides. Seismic tremor also offers the first ever view of subglacial discharge from a tidewater glacier. Discharge increases during late summer, which promotes submarine melt. Together, these multidiscipline observations improve our understanding of the geophysical processes responsible for rapid ice loss across the cryosphere.
PURDUE UNIVERSITY  
Department of Earth, Atmospheric, and Planetary Sciences  
Colloquia – Fall 2014  
Thursdays at 3:30 PM, Room 1252 HAMP (unless noted)

Sept.  4    When Engineering Geology Meets Geotechnical Engineering  
Gary Luce, Knight Piesold & Co., AEG President  
Host: West

Sept.  9    The Impact of Climate Change and Agricultural Activities on Water Cycling in Northern Eurasia  
Yaling Liu, PhD Candidate  
Advisor: Zhuang  
**Tuesday, 4:00PM, Room 2201/HAMP**

Sept.  11   The DOE Accelerated Climate Modeling for Energy Project  
Dr. Robert Jacob, Argonne National Laboratory  
Host: Harshvardhan

Sept.  18   The Origins of Volatile-rich Solids and Organics in the Outer Solar Nebula  
Prof. Fred Ciesla, University of Chicago  
Host: Minton

Sept.  25   Long-term Morphological Changes in Mature Supercell Thunderstorms Following Merger with Nascent Supercells  
Prof. Ryan Hastings, Purdue University

Sept.  30   Making Weather and Climate Data More Usable for Agriculture Across the U.S. Corn Belt  
Olivia Kellner, PhD Candidate  
Advisor: Niyogi  
**Tuesday, 4:00PM, Room 2201/HAMP**

Oct.   2    New Perspectives on Tidewater Glacier Mass Change  
Dr. Tim Bartholomaus, University of Texas-Austin  
Host: Elliott

Oct.   9    Sulfur Cycling on Mars from a Perspective of Sulfur-Rich Terrestrial Analogs  
Prof. Anna Szynkiewicz, University of Tennessee  
Host: Horgan

Oct.  16    Climate Impacts and Extremes in Large Earth System Model Ensembles  
Prof. Ryan Sriver, University of Illinois-Champaign/Urbana  
Host: Wu

Oct.  21    Towards a Paradigm Shift in the Modeling of Soil Carbon Decomposition for Earth System Models  
Yujie He, PhD Candidate  
Advisor: Zhuang  
**Tuesday, 4:00PM, Room 2201/HAMP**

Oct.  23   Anthropogenic Signals in InSAR  
Prof. Rowena Lohman, Cornell University  
Host: Elliott/Flesch

Oct.  28   Giant Impacts on the Asteroid Vesta  
Tim Bowling, PhD Candidate  
Advisor: Melosh  
**Tuesday, 4:00PM, Room 2201/HAMP**

Oct.  30   Abiotic and Biogeochemical Controls on Reactive Nitrogen Cycling on Boundary Layer Surfaces  
Prof. Jonathan Raff, Indiana University  
Host: Shepson

(continued on next page)
Nov.  6  Andean Foreland Basins: A Thermochronologic Perspective on Sediment Provenance, Deformation, and Basin Thermal Histories  
Prof. Julie Fosdick, Indiana University  
Host: Ridgway

Nov. 11 Profiling Developing Tropical Storm Environments Using GPS Airborne Radio Occultation  
Brian Murphy, PhD Candidate  
Advisor: Sun/Haase  
**Tuesday, 4:00PM, Room 2201/HAMP**

Nov. 13 Shale Gas Development and the Environment  
Prof. Mark Zoback, Stanford University  
Host: Nowack  
**Thursday, 4:00pm, Room 210/MTHW (joint with the Physics Dept.)**

Nov. 20 The Role of Monsoon Circulation on Tropopause Variability  
Prof. Yutian Wu, Purdue University

Dec.  4 CSI Patagonia: Tracking Glacial and Climate Dynamics over the Last Glacial Cycle  
Alessa Geiger, University of Glasgow  
Host: Harbor
Present your research in THREE minutes

Open to all undergraduate and graduate students at Purdue

October 20, 2014
KRANNERT AUDITORIUM

$500 First Prize

Sponsored by
Office of Interdisciplinary Graduate Program

Register at
http://tinyurl.com/ESE3mt
Ecological Science and Engineering Symposium

#SCIENCE
Effective Interdisciplinary Communication

Poster Session Callout

Communicate your research in a judged competition

Cash Awards!

October 20, 2014
RAWLS ATRIUM

Registration Deadline October 1
http://tinyurl.com/ESEposters
Stayin’ Alive with Free Hands-Only CPR training Oct. 1

The American Heart Association’s Hands-Only CPR Mobile Tour is coming to Purdue Oct. 1, and you’re invited! It’s a disco party you won’t want to miss!

You’ll get a ’70s disco style CPR bling necklace and a CPR Anytime kit to use during your training and to take home so that your whole family can know this important skill. Not only will you learn a skill that can save lives, you’ll enjoy music and fun while you’re doing it.

Why a disco party? "Stayin’ Alive" by the Bee Gees has more than 100 beats per minute, which is the rate at which you should push on the chest during CPR.

Take 30 minutes of your time to learn the lifesaving skills of CPR. Pre-register today by going to www.surveymonkey.com/s/CPRatPurdue. Everyone who completes the training will be entered into a drawing to win one of seven Fitbits, to be awarded by Anthem.

Purdue employees may attend in paid status with their supervisor’s approval. We can’t wait to see you there!

WHERE: Rec Sports Center, Feature Gym
DATE: Oct. 1 - One day only!
TIMES: 10 a.m., 10:45 a.m., 11:30 a.m., 12:15 p.m., 1 p.m., 2:30 p.m., 3:15 p.m.

Classes start promptly! Please arrive about 10 minutes before your class time.

Looking for a program to become certified in CPR? Contact Rec Sports for information.

Same day, same place:
Purdue University and Tippecanoe County safety officials will show off their latest resources from 3 -5 p.m. on Oct. 1. Head to the circle drive on the west side of the Rec Sports Center.

- Tour a Mobile Command Center
- Try the drunk simulator to see how you drive while impaired
- Register your bike or laptop
- Find lots of great information
Purdue University
Science Week
Sept. 29 – Oct. 3

Monday
PUGWASH presents: Exploring and Exploiting Cationic Porphyrins as DNA Agents
WTHR 104
7 pm

Tuesday
Experiment Demos by American Chemical Society-Student Affiliates
Outside front steps of WTHR
12-3 pm

The Truth About Zombies: Documentary Movie Night
CL50 125
5-8 pm

Wednesday
Computer Science USB presents: The Intersection of Art, Biology, Ethics, and Computer Science – A lecture by Prof. Gustavo Rodriguez-Rivera
LWSN B151
4-5 pm

Thursday
Columbian Park Zoo presents: Animal Planet
KRCH 260
5-6:30 pm

An Evening Variety: The Boys are Back
MTHW 210
8:45-10 PM

Friday
Science Jeopardy
LWSN B155
5-8 pm
NUCLEAR POWER: PAST, PRESENT AND FUTURE
Thursday, October 16
7 p.m. Loeb Playhouse
OPEN TO THE PUBLIC

As Associate Deputy Assistant Secretary for Nuclear Reactor Technologies, Sal Golub manages a portfolio of nuclear reactor technologies, including light water, gas and liquid metal coolants, advanced reactor concepts, small modular reactor deployment and space and defense power systems.

Prior to his current assignment, Golub led the reactor development component of the Global Nuclear Energy Partnership as Director of Fast Reactor Development. Golub has also served as the Office of Nuclear Energy’s Director of Corporate Communications and External Affairs.

While in the private sector, he completed a variety of challenging projects in the commercial nuclear industry, including supervisory and management positions at four nuclear power stations in the areas of design, construction engineering, plant startup, licensing, operations and maintenance.

Golub received his degree in Civil and Environmental Engineering from Clarkson University and is a graduate of the Federal Executive Institute.

For more information
www.purdue.edu/discoverypark/dls | Cindy Ream: cream@purdue.edu | 765-494-0015