

April 11, 2011



We are pleased to announce that effective August 15, 2011, Lucy Flesch, Greg Michalski, and Wen-wen Tung will be promoted to the rank of Associate Professor, and Matt Huber will be promoted to Full Professor.

Congratulations to all of the candidates and the PAC members for their hard work!

#### EAS AREA COMMITTEE REPRESENTATIVE

Jeff Trapp has been nominated and elected to serve as the EAS committee member on the COS Area Committee for a two-year term starting August 1, 2011.

#### AGU FELLOW

Paul B. Shepson has been elected a Fellow of the American Geophysical Union. Only one in a thousand members is elected to Fellowship each year. He will be honored at the December 2011 Fall AGU Meeting in San Francisco.

#### FEUSTEL SPACE LAUNCH NEW LAUNCH DATE

NASA announced that the April 19<sup>th</sup> space launch date has changed to April 29<sup>th</sup> (you can find the article [here](#)). The details regarding a possible "launch" party will be forthcoming as the date gets closer.

#### UPCOMING MINI-WORKSHOP: OVERVIEW OF THE NSF CAREER PROGRAM

**Tuesday, May 3rd, 2011**  
**11:30 a.m. – 1:00 p.m.**  
**Stewart Center, Room 310**

The Office of the Vice President for Research is hosting a mini-workshop for untenured faculty in all disciplines who are interested in developing a proposal for the NSF CAREER competition. [Read more...](#)

#### UPCOMING MEETINGS

##### Monday, April 11

- Alumni & Corporate Relations Committee, CIVL 2201 (1 p.m.)

##### Tuesday, April 12

- Undergrad Committee, CIVL 2201 (2:30 p.m.)
- COS Faculty Meeting, LWSN 3102A/B (3:30 p.m.)

##### Friday, April 15

- Graduate Committee, CIVL 2173 (1:30 p.m.)

##### Monday, April 18

- EAS Faculty Meeting, CIVL 3201 (11:30 a.m.)

#### EAS SEMINAR

**Thursday, April 14, at 3:30 p.m. in CIVL 1252:**  
"Aerosols: Smoke and Mirrors of the Climate System." Harshvardhan, EAS, Purdue

Refreshments at 3 p.m. in CIVL 2201

For more information, see the EAS online [calendar](#).

#### UPCOMING DEFENSES

**Tuesday, April 12, at 10 a.m. in CIVL 2201:**  
"Urbanization Impacts on Mesoscale Rainfall and Severe Weather." PhD final exam for **Ming Lei**; Major Advisor: Dev Niyogi

**Thursday, April 14, at 10 a.m. in CIVL 2201:**  
"Improving a Process-based Biogeochemistry Model using an Atmospheric Transport Chemistry Model and In-Situ and Remotely-sensed Terrestrial and Atmospheric Data." PhD defense for **Jinyun Tang**; Major Advisor: Qianlai Zhuang

**Friday, April 15, at 2 p.m. in CIVL 2201:**  
"Petrographic, Mineralogical, and Geochemical Evidence of Diagenesis in the Eau Claire Formation: Implications for Sealing Capability in a Carbon Dioxide Sequestration System." MS defense for **Ryan Neufelder**; Major Advisor: Brenda Bowen

**Monday, April 18, at 9:30 a.m. in CIVL 2201:**  
"Modeling Future Residential Energy Demand under Changing Climate: A Study on Space Heating." MS defense for **Advait Godbole**; Major Co-advisors: Matthew Huber and Kevin Gurney

## RECENT PRESENTATIONS

Zhuang, Q., X. Lu, M. Chen and J. Tang, Using AmeriFlux and satellite data to improve the quantification of carbon and water dynamics of terrestrial ecosystems in the conterminous US, AmeriFlux Science Meeting and 3<sup>rd</sup> NACP All-investigators Meeting, January 31-February 4, 2011, New Orleans, LA.

Matt Huber gave a talk to the Geological Sciences Department at Brown University, March 15: "Chasing thermostats, amplifiers, rectifiers, and capacitors through past warm climates--trying to find the important missing physics in climate models."

Matt Huber gave an invited keynote presentation at the Royal Netherlands National Academy of Arts and Sciences, at a special meeting on Estimating Climate Sensitivity from Paleoclimate Records, Amsterdam, the Netherlands, March 29, "Some constraints on sensitivity from Paleogene climate records."

During the week of March 28, PhD student, Elifuraha Saria, was in Europe at the Institute of Geographic National (ENSG, IGN), Paris, France, for training on the combination of different geodetic techniques in the realization of Africa Reference Frame. April 4-8 he attended the European Geoscience Union meeting in Vienna, Austria and presented a poster entitled, "A new velocity field for Africa from combined GPS and DORIS solutions: Contribution to AFREF(Africa Reference Frame)" [See abstract...](#)

Laura Pyrak-Nolte chaired a session on Experimental Methods in Porous Media and gave a presentation entitled, "Understanding the effect of films on the capillary pressure - saturation hysteresis for a single pore throat" at the Interpore 2011 - 3rd International Conference on Porous Media in Bordeaux, France, March 29-31, 2011.

On Friday, April 1, Jennifer Haase presented an invited seminar at the Bureau of Mines, in Port-au-Prince, Haiti, entitled, "Utilisation des reseaux sismologiques pour determiner l'alea sismique" The Use of Seismic Networks for Understanding Seismic Hazard. The Bureau of Mines is the organization in Haiti responsible for installing and monitoring seismic activity in Haiti, following the 2010 earthquake.

Zhuang, Q., J. M. Melillo, D. Kicklighter, J. Reilly, A. Sokolov, Paltsev, A. Shvidenko, N. Tchebakova, E. Parfenova, A. Peregon, A. Sirin, S. Maksyutov, and G. Zhou, Changes of land use and land cover, biogeochemistry, and their feedbacks to climate in northern Eurasia, EGU Annual Meeting, 3-8 April, Vienna, Austria.

## EAS LIBRARY'S NEWEST BOOKS

Click [here](#) to see a list of new books in the EAS library in the last two weeks.

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## RECENT RESEARCH ACTIVITIES

Professor Qianlai Zhuang organized and hosted a NASA LCLUC workshop "Changes of Land Cover and Land Use and Greenhouse Gas Emissions in Northern Eurasia: Impacts on Human Adaptation and Quality of Life at Regional and Global Scales" in the International Institute for Applied Systems Analysis, Laxenburg, Austria, on April 8, 2011.

Prof. Qianlai Zhuang organized and hosted a NSF collaborative project entitled, "Impact of Permafrost Degradation on Carbon and Water in Boreal Ecosystems" meeting on March 9-12, 2011, Boulder, Colorado. Graduate students Yueyang Jiang and Xiaoliang Lu also attended and presented their research at the meeting.

Upon invitation, Professor Qianlai Zhuang attended the NSF Workshop of An Integrated Network for Terrestrial Ecosystem Research on Feedbacks to the Atmosphere and Climate (INTERFACE): Linking experimentalists, ecosystem modelers, and Earth system modelers, Captiva Island, Florida, February 28-March 3, 2010.

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## GRAD STUDENT ACTIVITIES IN PUERTO RICO

Angel R. Torres-Valcarcel gave a TV interview on the local news channel in San Juan, Puerto Rico, about a press conference on the local environmental organizations coalition for "Earth Month", and the local "Earth Month" activities schedule of the participating organizations.

Angel R. Torres-Valcarcel wrote a newspaper column in the local newspaper, *El Nuevo Dia*, in San Juan, Puerto Rico. The title of the article, "La Via de los Verdes" (translation: The Pipe of "Green") was regarding the environmental sustainability controversy of building a local gas pipeline.

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## FELLOWSHIPS

The National Research Council of the National Academies sponsors a number of awards for graduate, postdoctoral and senior researchers at federal laboratories and affiliated institutions. These awards include generous stipends ranging from \$42,000 - \$75,000 per year for recent Ph.D. recipients, and higher for additional experience and graduate entry level stipends beginning at \$30,000 and higher for additional experience. [Read more...](#)

## OPENINGS AT OAK RIDGE NATIONAL LABORATORY

Oak Ridge National Laboratory currently has over 100 openings in their Postdoc and Post-Master's Research Associates Program. These programs are open to recent Ph.D. and Master's graduates (within 5 years of graduation) who are interested in gaining experience at a National Laboratory. [Read more...](#)

### A NOTE FROM OUR ACADEMIC COUNSELOR

#### The Just in Time Job Fair

Tuesday, **April 19**, from 10 a.m. – 3 p.m. in the PMU Ballrooms. A final chance of the school year to connect on campus with a wide variety of companies with opportunities for all majors and degree levels.

**April 22 Earth Day 2011: A Billion Acts of [Green](#)**

Congratulations to all College of Science students with Semester Honors and Dean's List. Please see *The Exponent* for Friday, April 8, 2011, page 11.

Nancy

### HAPPY BIRTHDAY!!!

Nat Lifton – April 14



### IMPORTANT NOTICE ABOUT THIS NEWSLETTER

This newsletter will now be 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/](http://www.purdue.edu/eas/) and **Click on News** to access active links as needed. Material for inclusion in the newsletter should be submitted to Gina Richey ([grichey@purdue.edu](mailto:grichey@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](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>.



### **Field Camp Scholar Award**

New award for undergraduate GSA student members to attend summer field camp. Twelve students will be awarded \$2,000 each to attend the field camp of their choice based on diversity, economic/financial need, and merit.

Who can apply? Undergraduate geology GSA student members

Deadline to apply? Friday, 15 April, 2011

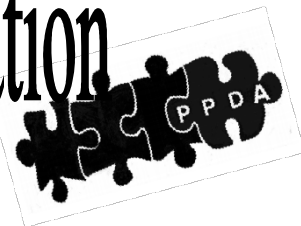
Visit

<https://rock.geosociety.org/ExxonMobilAward/FieldCampScholar/2011/index.asp>  
for more information and to apply.

Questions about either of these awards? Contact Jennifer Nocerino,  
[jnocerino@geosociety.org](mailto:jnocerino@geosociety.org), 303-357-1036.



# Purdue Postdoctoral Association



Purdue Postdoctoral Association wants to give you the warmest welcome!

We want to inform you about our initiative in Campus:

- Improve the postdoctoral experience at Purdue U
- Facilitate postdoctoral career development
- Fosters professional and social interaction among Purdue pos docs and other U Purdue scholars and staff
- Increases awareness of the contributions of Purdue postdocs to Purdue University and the university body in general. U

PPDA email list is our primary communication channel and is used for official U news. A newsletter is sent at least once per month with updates regarding the U PPDA. U

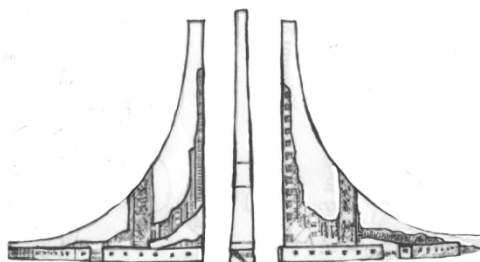
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**PPDA**