

September 20, 2010

## THE HEAD'S PERSPECTIVE

This week is one of the highlights of the EAS year, as we welcome back to campus both our Alumni Advisory Board and four alumni who will be recognized as the 2010 EAS Outstanding Alumni.

We are very fortunate to have former students who are engaged in helping EAS through our Alumni Advisory Board. This group typically meets once a year, but were so enthusiastic about the Spring meeting that they asked to add a Fall meeting as well. The impacts of their past suggestions can be seen throughout the department, and at their meeting this week they will be engaged in discussions about a possible Professional Masters Degree program, ways to enhance "EAS as a Destination," and they will be working on upgrading the content of the alumni section of our web page. Coming in the near future to our web site will be video vignettes of some of our alumni! Which might prompt us to do the same for students, staff and faculty.

Our EAS Outstanding alumni have amazing and diverse careers, and continue to have significant impacts in government service, business and industry. I encourage you all to attend the recognition ceremony this coming Friday, and to hear more about them. They are an inspiration to us all.

I have been delighted to see the emergence of a new student club in the department this semester: the Purdue University Geological Society (PUGS). For many years we have had a very successful atmospheric sciences club, PUMA, and with the resurgence of majors in the Earth Sciences we are well placed to have a vibrant geology club as well. Officers have been elected, a constitution passed, and exciting events are being planned. So look out for opportunities to join the club and take part in PUGS events. PUGS and PUMA are also planning a joint event in the near future – a presentation and discussion for undergraduates interested in applying to graduate school. Early Fall is the right time to be getting serious about doing background work if you want to start graduate school next Fall.

## UPCOMING MEETING

**Monday, September 20**

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

## SEMINARS

**Joint Special EAS and STAT Seminars in Spatial Statistics and Statistical Climatology**

**Tuesday, September 21, at 12 p.m. in CIVL 2201:**

Pre-Seminar Lecture, "Prediction and Predictability of Severe Weather and Hurricanes at the Mesoscales." Prof. Fuqing Zhang, Pennsylvania State University

**Tuesday, September 21, at 3:30 p.m. in REC 225:**

"Ensemble-based State and Parameter Estimation in Atmospheric Sciences." Prof. Fuqing Zhang, Pennsylvania State University

## EAS Departmental Seminar

**Thursday, September 23, at 3:30 p.m. in PHYS**

**223:** "Seasonal Climate Forecasts from a Suite of 16 Coupled Atmosphere Ocean Models." Dr. Tiruvalum N. Krishnamurti, Florida State University

*Refreshments at 3 p.m. in CIVL 2173*

**NOTE:** This is also an opportunity to visit (for those who may not be able to attend the reception and seminars on Friday with our Outstanding Alumni) with some of our EAS Outstanding Alumni and Advisory Board members.

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

## Outstanding Alumni Reception and Seminars

**Friday, September 24**

2:00-2:30 Catered reception for our EAS Outstanding Alumni (CIVL 2201)

2:30-3:45 Seminar presentations (CIVL 2201):

Tom Adang: "*Purdue – Foundation of Success*"

Stephen Brand: "*Life After... the Industry Pathway*"

Kurt Oschman: "*From Science to Solutions*"

**Everyone is highly encouraged to attend!**

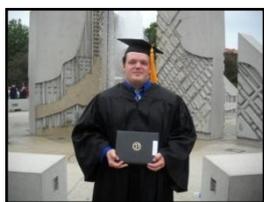
## NEW PEOPLE IN EAS

### Jeremy Stalker Postdoctoral Research Associate



Jeremy comes to us most recently as a Visiting Assistant Professor at the University of Montana in Missoula. Jeremy received his B.S. in Geology at Michigan State University, a Master's degree in Geophysics at the University of Montana, and then a Ph.D. in Geochemistry at Florida International University in Miami, Florida. In between these degrees he worked as a hydrologist for the USGS in New York, and as an exploration Geophysicist in Ketchikan Alaska. His research has included applied geophysical investigations of basin scale sedimentation and saltwater intrusion on tropical coastlines, but his primary research focuses on using geochemical tracers such as light and heavy stable isotopes (O, H, N, C, He, and Sr), radioisotopes (Ra,  $^3\text{H}$ , Rn) as well as dissolved metals in hydrological applications. His hydrologic work has included tracing fresh and saline water sources in Biscayne Bay in south Florida and the Everglades, the Bahamas, and in the Yucatan peninsula of Mexico in an effort to elucidate source waters, pathways, residence times, and to help understand potential anthropogenic impacts to these hydrologic systems. His research at Purdue will focus on using stable light isotopes as tracers of local and imported water sources in arid regions such as the southwest United States. The goal of this work is to study and map the influence of imported water in the municipal water systems of the southwest and to track the post introduction migration of the water into the surrounding watershed. When he is not chasing water with a peristaltic pump and glass bottles, he is chasing it with a sea kayak, SCUBA gear, or in a more solid state with a pair of crampons and axes or Tele-skis and logging more nights in hotel Ford.

### Nicholas Farny Graduate Student



My name is Nicholas Farny from Evansville, Indiana. I got my Bachelors degree from Purdue University in Geology and Geophysics in the Spring of 2010. I am now seeking a Masters degree in Geology, and I will be focusing my studies in Engineering and Environmental Geology. I am also currently a teaching assistant for EAS 321 and EAS 111.

## RECENT PRESENTATIONS

On September 13, Gabe Bowen gave an invited seminar at the University of East Anglia entitled "H and O isotopes in spatial ecology: Sources, biochemical pathways, and applications in aquatic and human ecosystems."

Upon invitation, Prof. Qianlai Zhuang participated in an Interdisciplinary Sino-German Dongting initiative workshop at the German Remote Sensing Data Center (DFD) of the German Aerospace Center (DLR) during September 13-17, 2010. He delivered a talk entitled, "Wetland changes and their emissions of methane in China" at the workshop. The goal of this workshop is to develop a large joint regional research and assessment program between Germany and China on human activities and climate change in the Dongting Lake region.

## 2010 GSA ANNUAL MEETING

Form 17's need to be turned in ASAP for anyone who will be requesting prepaid airfare, lodging or registration. Please contact Michelle Miller at [mille262@purdue.edu](mailto:mille262@purdue.edu) or 40036 if you need any assistance with this.

### GSA Early Registration Deadline – September 27, 2010



### 2010 Annual Meeting:

#### Reaching New Peaks in Geoscience

31 Oct.–3 Nov. • Denver, Colorado, USA

## Register Today

- [Book Your Hotel](#)
- [Browse Topical Sessions](#) | [Field Trips](#) | [Short Courses](#)
- [Events & Programs](#)

### *Exhibitors*

- Booths are **SOLD OUT** - [Wait list is available](#)
- [View Live Floor Plan](#)

### *Event Planners*

- [Event Planning Guide](#)
- [Space Request Form](#)

## TRAVEL GRANT RECIPIENTS

Congratulations go to the following students who are the recipients of the P. F. Low Travel Grant for the AGU meeting this year:

**Clement Bataille** (Advisor: G. Bowen)

**Krystin Riha** (Advisor: Michalski)

**Fan Wang** (Advisor: Michalski)

The P. F. Low AGU Travel Award is sponsored by Professor Cushman to provide travel funds for EAS PhD students to make presentations at the Fall (San Francisco, California) American Geophysical Union (AGU) meeting. The award is named in honor of the late Philip F. Low, a member of the National Academy of Sciences and a pioneer in the rigorous use of thermodynamics for the study of clay-water interactions.

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## SERVICE-LEARNING WORKSHOP

Led by the 2010 Community of Service-Learning Faculty fellows, a workshop on September 15<sup>th</sup>, 2010 will explore the fundamentals of service-learning at Purdue. [Read more...](#)

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### 2010 ESE Symposium Bridging the Gap from Science to Policy: Technology, Environment and Sustainable Development October 27, 2010 Discovery Park

In the spirit of unifying environmental interests at Purdue and the local community, the Ecological Sciences & Engineering Interdisciplinary Graduate program will host their fourth annual campus-wide integration symposium. This year's theme is Bridging the Gap from Science to Policy: Technology, Environment, and Sustainable Development. This symposium seeks to stimulate interest and discussion in the Purdue community about the various interdisciplinary aspects of environmental research and application. Attendance to all events is free. Pre-registration now open [www.purdue.edu/esesymposium](http://www.purdue.edu/esesymposium).

The ESE Symposium, a student-run, interdisciplinary event, provides undergraduate and graduate students with an opportunity to present their research and interact with experts in various environmental fields. It also raises awareness about the ESE program and other environmentally focused initiatives at Purdue University and beyond.

## 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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## TENURE-TRACK FACULTY POSITION ATMOSPHERIC SCIENTIST

The Department of Geoscience at Hobart and William Smith Colleges invites applications for a tenure-track appointment at the level of assistant professor to begin Fall 2011. [Read more...](#)

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## TO THE AMERICAN METEOROLOGICAL SOCIETY COMMUNITY

Stefan Cecelski, a graduate student at the University of Maryland, was recently appointed as the graduate student representative for the Unidata Users committee. As the student representative, he would like to share with you a new email list from Unidata. This email list is designed with students in mind. [Read more...](#)

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## A NOTE FROM OUR ACADEMIC COUNSELOR Thinking Graduate School?

The [Big Ten+ Grad School Expo](#) is for students who are considering pursuing an advanced degree in Engineering, Mathematics, **Science**, Technology, Pharmaceutical Sciences and related disciplines. Over eighty programs are attending. Students need to register for this event which takes place **September 26<sup>th</sup>-27<sup>th</sup>** in Stewart Center. [Purdue Students Register Here.](#)

## Thinking Peace Corps?

Peace Corps representative Kendall Masten ([kmasten@peacecorps.gov](mailto:kmasten@peacecorps.gov)) is a contact if interested in this opportunity. The Peace Corps has indicated that they are particularly interested in science teaching majors as new programs are opening in Central Asia and South America to complement current programs.

## Thinking Teaching?

Are you an upperclassman with a major in a STEM field (Science, Technology, Engineering or Math) who likes to teach? You may want to consider applying for the Woodrow Wilson National Fellowship Foundation's Indiana Teaching Fellowship. This fellowship program offers:

- A \$30,000 stipend
- A Master's Degree from an excellent teacher education program at Purdue University, University of Indianapolis, Indiana University-Purdue University Indianapolis, or Ball State University

- Ongoing mentoring as you transition to teaching
- Lifelong membership in a national network of Woodrow Wilson Fellows who are intellectual leaders

Those selected to be Fellows will receive intensive clinical experience in urban and rural middle and high schools that serve high-need populations. Upon completing the Master's Degree and teacher licensure, Fellows will teach for three years and receive continued support and mentoring. More details about the program are available at [www.woodrow.org/Indiana](http://www.woodrow.org/Indiana) and [www.purdue.edu/stemgoesrural](http://www.purdue.edu/stemgoesrural).

The Woodrow Wilson National Fellowship Foundation will visit Purdue to explain more about this unique opportunity and answer questions. College of Education faculty and staff also will be on hand. Please plan to attend the presentation from **7 to 8 p.m. on September 27<sup>th</sup> in Beering Hall, Room 1243.**

Applications can be completed online at [www.woodrow.org/Indiana](http://www.woodrow.org/Indiana). The deadlines (October 13, 2010, December 1, 2010, or January 12, 2011) include submission of the application as well as letters of recommendation and a resume. You may apply even though you will not be graduating until

December 2010 or May 2011. Classes for the cohort begin at Purdue University in the summer of 2011. If you have questions, feel free to contact Kathy Dietz, Office of Graduate Studies, College of Education, 494-2345, [STEMGoesRural@purdue.edu](mailto:STEMGoesRural@purdue.edu).

### Disney College Internship Program

The college recruitment presentations are this week:

Monday, September 20th at 7:00pm in MTHW 210

Tuesday, September 21st at 7:00pm in RHPH 172

For more information or to get started visit:

[www.disneycollegeprogram.com](http://www.disneycollegeprogram.com)

### Helpful Workshops

**September 22**, 6-7 p.m. in WTHR 104. [International Students Clinic - Resumes: Fact or Fiction](#) clinic is specially designed to address the needs of international students in career searching.

**September 23**, 4:30-5:30 in UNIV 117, [LinkedIn - Career Networking](#) is a unique clinic that helps students learn how to use the popular career site to network professionally online.

Nancy

### 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/resources/it>.

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>.





**“Bring it to the BIF (Bioscience Imaging Facility)”  
Light Microscopy Workshop**

**Does your research involve light microscopic imaging? Do you wish that it did? If so, the Bindley Bioscience Imaging Facility light microscopy workshop may be right for you!**

When: 1-5 pm, October 5<sup>th</sup>, 2010

Where: The Bindley Bioscience Center, Room 158

The workshop will begin with an overview of the operating principles of wide-field, confocal, and multiphoton microscopy, followed by a demonstration of each technique using participant supplied samples.

Participants interested in submitting a sample for consideration are requested to visit <http://www.surveymonkey.com/s/WH7WCFH> and fill out the short application survey. The submission deadline is Monday, September 20<sup>th</sup>. Each lab submitting an application will receive one FREE hour of imaging time. The three labs whose sample is selected for use during the workshop will receive an additional five hours of FREE imaging!

Project submission deadline: Monday September 20<sup>th</sup>

# Graduate School Travel Grants

<http://www.gradschool.purdue.edu/funding/>



Your journey to **Career Success**

What's your destination?

**PURDUE**  
UNIVERSITY

The Graduate School

## A.H. Ismail Interdisciplinary Travel Award

***Deadline: October 15, 2010***

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.

Any student who will participate in a conference during the period from **January 1, 2011 to December 31, 2011** is eligible to apply.

A complete grant announcement can be found in the Fellowship Manual at our website, along with the submission guidelines.



**<http://www.gradschool.purdue.edu/funding/>**

Then click on the Funding Opportunities tab

# \$1,500 Travel Grants

<http://www.gradschool.purdue.edu/funding/>

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## Frederick N. Andrews and Russell O. Blosser Environmental Travel Grants

***Deadline: October 29, 2010***

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.

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A complete grant announcement can be found in the Fellowship Manual at our website, along with the submission guidelines.



**<http://www.gradschool.purdue.edu/funding/>**

Then click on the Funding Opportunities tab.

The Future  
NEXT EXIT

Your journey to **Career Success**

What's your destination?

**PURDUE**  
UNIVERSITY

The Graduate School

## Join a community of innovators...

The Hertz Foundation selects, supports, and mentors the brightest technical people in the nation, giving them all possible freedom to find their creative limits. By further providing them opportunities to interact as a community, we help equip them to meet John Hertz's challenge to serve the nation.

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For Innovators in the Applied Physical, Biological, and Engineering Sciences

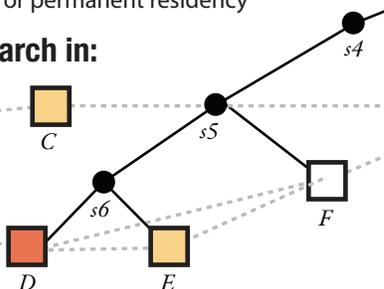


### We are looking for:

- Exceptional creativity
- Broad understanding of physical principles
- Outstanding potential for innovative research
- Applying to or enrolled in a PhD program
- American citizenship or permanent residency

### We support research in:

- Astrophysics
- Chemistry
- Computer Science
- Earth Science
- Engineering
- Materials Science
- Mathematics
- Physics
- Quantitative Biology/Biotechnology



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- Emphasis on near-term application of applied sciences or engineering
- Approximately 20 new Fellowships awarded annually
- Tenable at most top-level U.S. research universities
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### Option 1: Five-Year Hertz

- **\$31,000/9 month** Personal Stipend\*
- Full Tuition Equivalent
- Renewable for up to 5 years

### Option 2: Five-Year Coordinated Hertz Period—Two Years

- **\$36,000/9 month** Personal Stipend\*
- Full Tuition Equivalent

### Other Fellowship Period—Up to Three Years

- **\$3,500/year** Supplemental Stipend\* from Hertz
- Requires Awardee to accept 3-year Fellowship from another source

\*+\$5,000/yr for dependent child care.

### Application deadline:

**October 29, 2010**

### Apply online at:

**[www.hertzfoundation.org](http://www.hertzfoundation.org)**

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