

October 3, 2011

## NEW PEOPLE IN EAS

### Graduate Students

#### Alex Gonzalez



Click image for larger view.

Alex Gonzalez is a masters student in the Department of Earth and Atmospheric Sciences. He received his BA in Geology from Amherst College in 2010. Alex is now working with Prof. Brenda Bowen to analyze core samples from the Mouth Simon Sandstone to

characterize compositional properties and determine diagenetic histories with the goal of understanding reservoir quality and potential CO<sub>2</sub> injection capacity.

#### Peter Robertson

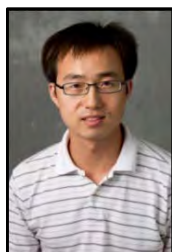


Click image for larger view.

Peter Robertson is working under Dr. Ken Ridgway towards earning a master's degree in geology. He received his B.S. in geology from the University of Tennessee-Knoxville this past spring and began working in

Alaska with Dr. Ridgway in July. His current research interests involve structural geology, sedimentology and stratigraphy, and petroleum geology.

#### Linyuan Shang



Linyuan Shang obtained his Masters Degree in Landscape Ecology from the Research Center for Eco-Environmental Science, Chinese Academy of Sciences, and a Bachelors Degree in Environmental Science from Wuhan University. In the fall of 2011, he started to pursue his PhD

Degree at Purdue University. His research focuses on developing and using model data assimilation techniques to improve earth system models. The data will include in situ and satellite observations of terrestrial biosphere and atmosphere and the model he will use is an ecosystems and biogeochemistry model, the Terrestrial Ecosystem Model.

## EAS SEMINAR

**Thursday, October 6, at 3:30 p.m. in CIVL 1252:**

"The Modern Antarctic Climate: Variability and Change." Marilyn Raphael, UCLA - *Multicultural Distinguished Lecturer*

Refreshments at 3 p.m. in CIVL 2201

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

## THESIS DEFENSE

**Monday, October 10, at 3 p.m. in CIVL 3201:**

"Modeling Carbon Dynamics of the Terrestrial Ecosystems in Northern Eurasia during the 21th Century" by Zhiwei Zhang. Advisor: Qianlai Zhuang

## GSA ANNUAL FALL MEETING

**October 9 – 12, 2011**

**Minneapolis, Minnesota**

Grad School Recruiting Booth – Sunday, October 9 and Monday, October 10 from 8:00 am to 6:00 pm. Please sign up with Kathy to work the booth!

EAS Alumni, Friends & Student Reception – Monday, October 10 from 7:00 to 9:00 pm at the Hilton Minneapolis, Marquette Ballroom VI

EAS faculty, staff and graduate student [presentations](#).

## WISP MEETING

**Date:** October 4th

**Time:** 11:30-12:30

**Place:** CIVL 2201

**Topic:** Ace the Interview

## OUTREACH OPPORTUNITY

### National Earth Science Week

- October 10-14, 2011
- **Where:** Local Elementary schools
- **What is going on:** We are planning on doing various activities in elementary classrooms in the area
- **What is needed:** Teams to take the activity out to the school and do them in classrooms.

## OUR RECENT PUBLICATIONS

Liu Z., Kennedy C. D. and Bowen G. J. (2011) Pacific/North American teleconnection controls on precipitation isotope ratios across the contiguous United States. *Earth and Planetary Science Letters*, 310, 319-326. doi:10.1016/j.epsl.2011.08.037.

Rodrigues C., Brunner M., Steiman S., Bowen G. J., Nogueira J. M. F., Gautz L., Prohaska T. and Máguas C. (2011) Isotopes as tracers of the Hawaiian coffee-producing regions. *Journal of Agricultural and Food Chemistry*, 59, 10239-10246. doi:10.1021/jf200788p.

Toth, M., E. Jones, D. Pittman, D. Solomon, 2011: DOW Radar Observations of Wind Farms. *Bull. Amer. Meteor. Soc.*, **92**, 987–995.

van Hooijdonk, R., and M. Huber, 2011: [Effects of modeled tropical sea surface temperature variability on coral reef bleaching predictions](#). *Coral Reefs*, DOI 10.1007/s00338-011-0825-4.

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## ISOCAPES 2011 ORGANIZER

Gabe Bowen organized Isoscapes 2011, an international conference that was held in Discovery Park on September 26 and 27. The meeting involved 60 participants, including ~20 students and postdocs and international attendees from Australia, Canada, England, Germany, New Zealand, South Africa, and Spain. Gabe and all involved would like to thank the PCCRC and Purdue Water Community for their support of the event, and grad students Clement Bataille, Courtney Creamer, Dominique Gibson, Bianca Maibauer, Nick Smith and Justin VanDeVelde for their help with logistics. More information on the meeting and updates on products resulting from this effort can be found at <http://isoscapes2011.org>. See [Purdue presentations](#).

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## RECENT PRESENTATIONS

Prof. Qianlai Zhuang participated in DOE's annual Integrated Climate Modeling Science team meeting held on September 19-22, 2011 in Washington, DC and gave an invited talk entitled, "Quantification of Arctic Terrestrial Biosphere Methane Emissions and Their Feedbacks to the Global Climate System."

Laura Pyrak-Nolte gave an invited presentation entitled "Fractures & the Matrix" at the workshop on *From Image to Insight: How Can We Leverage Pore-Scale Observations Through Rock Physics Models?*, at the 2011 Annual Meeting of Society of Exploration Geophysics in San Antonio, Texas, September 22, 2011. She also gave a presentation entitled

"Fracture intersections and interface wave" co-authored by Bradley C. Abell and Fan Wu at the Annual Meeting on September 21, 2011.

On September 23, Lucy Flesch gave a talk entitled "Using Geodetic, Geologic, and Seismic Data to constrain Asthenospheric Flow Beneath Central Asia" at the Institute of Geophysics, Chinese Earthquake Administration in Beijing. On September 27, she gave the same talk at the Earthquake Administration of Sichuan Province in Changdu.

Graduate student, Mallie Toth, gave an oral presentation September 26th at the AMS 35th Conference on Radar Meteorology in Pittsburgh, Pennsylvania entitled "Enhancing tornado intensity estimates with Doppler radar."

Sun, W. Y., and K. Yang, 2011: "Numerical Study of Dust Storm and Its Effect in Asia" at "[China-US 2011 Joint Symposium on Global Sustainability Issues in Energy, Climate, Water and Environment](#)" at Purdue University, West Lafayette, Indiana on September 25-28, 2011.

Terry West attended the 54th annual meeting of the Association of Environmental and Engineering Geologists (AEG) from September 19 until 24, 2011 in Anchorage, Alaska. He presented a paper co-authored by a former Purdue student, Kyu Ho Cho entitled "A combination of Geologic Factors Lead to Slope Instability and Failure, Two Contrasting Examples from Indiana and Alaska." He also attended a field trip entitled "Examples of Engineering Consequences-1964 Mw 9.2 Earthquake, Anchorage, Alaska." Lastly he was awarded the Claire P. Holdredge Award for his revised edition of the textbook *Geology Applied to Engineering*, Published by Waveland Press, 2010. This is the highest publication award of the Association and it was awarded at the Annual Banquet. Skip Watts, Purdue Distinguished Alumnus served as the Citationist

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## NSF FRONTIERS IN EARTH-SYSTEM DYNAMICS AWARDS EXPLORE LINKS AMONG EARTH PROCESSES AND SYSTEMS

Sun-to-ice: solar energy to ice chemistry on Earth; river delta changes; glaciers in a warmer world; earthquakes and fault slip; Earth's mantle and core, and how they interact with our planet's continents, oceans and atmosphere.

To explore the connections among Earth's systems, the National Science Foundation (NSF) has made seven awards totaling \$33 million. They are the first awards in NSF's Frontiers in Earth-System Dynamics (FESD) program. [Read more...](#)

### DEBIT CARD USE IN SNACK VENDING MACHINES

As of October 1, 2011, Visa and Mastercard debit and prepaid cards are no longer being accepted in vending machines. Credit Cards will continue to be accepted. A [label](#) will be placed on all snack, food, and hot beverage vending machines on campus notifying customers. [Read more...](#) [FAQ](#)

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### LECTURER/VISITING ASSISTANT PROFESSOR METEOROLOGY POSITION AVAILABLE

The Department of the Earth Sciences at The College at Brockport State University of New York invites applications for a new 3-year Lecturer or Visiting Assistant Professor position in extreme/severe weather beginning in August 2012. [Read more...](#)

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### NEW TENURE TRACK GEOLOGY POSITIONS AVAILABLE AT KENT STATE UNIVERSITY

Kent State University's Department of Geology is presently searching for two faculty positions; one for a Hydrologist with an emphasis in Urban Hydrology and another for an Environmental Mineralogist. [Read more...](#)

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### NEW JOB OPPORTUNITY AT NOAA

I.M. Systems Group, Inc. (IMSG) ([www.imsig.com](http://www.imsig.com)), a Federal Government Contractor located in Rockville, Maryland is currently seeking to hire a Geoscientist/Physical Scientist to support NOAA/NESDIS/Center for Satellite Applications Research (STAR). This position will be located in Camp Springs, Maryland. [Read more...](#)

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### POSTDOCTORAL POSITION AT PARIS UNIVERSITY

Open position for one post-doctoral position in ocean-atmosphere modeling at LOCEAN-IPSL, Paris University, France. [Read more...](#)

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### PGSG TRAVEL GRANT

The aim of the Purdue Graduate Student Government (PGSG) Travel Grant is to assist Purdue University graduate students in attending technical conferences which in turn will help to develop graduate students professionally and augment the overall quality of research at Purdue. Grants are distributed among graduate students on a competitive basis.

The deadline to submit applications for travel between 09/01/11 – 02/28/12, is **Friday, October 14.**

For additional information, please view <http://web.ics.purdue.edu/~pgsg/projects/travel-grants/>.

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### A NOTE FROM OUR ACADEMIC COUNSELOR myPurdue Maintenance

University Student Systems will be unavailable due to scheduled maintenance from 5 pm Friday, October 7 to noon on Monday, October 10. This includes: myPurdue, Banner Self-Service, UniTime (and Internet Native Banner used by staff), the TouchnetPayment portal, and 'Course Signals'. Blackboard and other course management systems will be unaffected. Course Signals is scheduled to return to service at 8 am on Monday, October 10<sup>th</sup>.

October 10 - 11 🌟 October Break – No Classes.

### Purdue Science Olympiad Callout

The Purdue Science Olympiad club ([www.purdue.edu/scienceolympiad](http://www.purdue.edu/scienceolympiad)) is looking for event volunteers for the Purdue University Regional Tournament on February 25, 2012.

“Science Olympiad is an interscholastic organization for middle and high school students which sponsors events in the natural, physical, and computer sciences. As a volunteer with Purdue Science Olympiad, you would have the opportunity to: (1) Run and write the exam for an event/s. (2) Run and judge a build event. (3) Help others run their events. (4) Promote science outreach with Purdue University.

Purdue Science Olympiad understands that its members are very busy; we ask for only a small commitment. We do ask that our members be present on the day of the competition and be responsible for their assigned events. If you think that this organization sounds interesting, please attend our second callout and help session on **October 5, 7:00 p.m.** in MTHW 304. If you can't make it to our help session or callout, please feel free to visit our website at [www.purdue.edu/scienceolympiad](http://www.purdue.edu/scienceolympiad) or you can feel free to email me at [hbvibber@purdue.edu](mailto:hbvibber@purdue.edu) –Hunter Vibbert.

### **PSSC (Purdue Science Student Council) Callout**

Purdue Science Student Council (PSSC) will be holding a callout on Wednesday **October 12** at 6 pm in BRNG 2290. There will be pizza provided. Please stop by to learn more about PSSC and how to get involved. The web address: [http://web.ics.purdue.edu/~pssc/Purdue\\_Science\\_Student\\_Council/Purdue\\_Science\\_Student\\_Council/Purdue\\_Science\\_Student\\_Council.html](http://web.ics.purdue.edu/~pssc/Purdue_Science_Student_Council/Purdue_Science_Student_Council/Purdue_Science_Student_Council.html).

### **PSSC Events: Science Week 2011**

- Free Candy Advertisement  
Free Candy with note card detailing all of the Science Week events and an opportunity to win a prize for counting how much candy is in a jar.  
Monday and Tuesday October 3 and 4  
10 am – 2:30 pm  
CL50 (Monday) and Lion fountain (Tuesday)
- The CSI Effect: Featuring Patrick Jones  
6 – 8 pm Monday October 3  
BRNG 2280  
Brief Presentation on how the CSI (Crime Scene Investigator) television program has affected the actual world of Forensic Science followed by an opportunity to learn how to fingerprint afterwards.  
Free PIZZA!!
- Science Trivia Night  
6 – 9 pm Wednesday October 5  
Lily 2102  
Have an opportunity to play a game a trivia game with your friends and co-workers. Science questions peppered in with some normal trivia questions.  
Special prize for the winner(s).  
Free Jimmy John's!!
- Petting Zoo with Dr. Jeff Lucas  
Thursday October 6 at 6 pm  
Earhart East Lounge  
Have an opportunity to hear a brief talk from Dr. Jeff Lucas followed by meeting some cool animals from Colombian Park Zoo!! Animals include but are not limited to: Opossums, snakes, birds, and perhaps even a marsupial!

### **Career Connections**

The Agriculture Fall Career Fair is on Tuesday, **October 4** from 9:30 am – 3:30 pm in the Purdue

Memorial Ballrooms. Information on internships and full-time opportunities will be available. Agencies including the Forest Service, Parks, Peace Corps, and the Student Conservation Association will also be there.

[http://www.ag.purdue.edu/oap/career/Pages/Student\\_FallFair.aspx](http://www.ag.purdue.edu/oap/career/Pages/Student_FallFair.aspx)

International students looking to improve their interviewing skills can attend the International Students Interviewing workshop on **October 5** from 6-7 pm in WTHR 104.

**Tuesday, October 4, 2011**  
**4:00-5:30 p.m. – STEW 310**

Karla F. C. Holloway is the James B. Duke Professor of English at Duke University and her research interests include Biocultural Studies, Ethics in Law and Medicine, and African American Cultural / Literacy Studies. Her lecture will be titled, "Generations of Privacy and Consent: Private Bodies, Public Texts — A Response to The Immortal Life of Henrietta Lacks". Dr. Holloway's lecture is presented as a Purdue Common Read event and is cosponsored by the African American Studies and Research Center and the Department of English. It is also included as a 2011 Experience Liberal Arts event.

More information on Prof. Holloway, including articles and book reviews, is available on her website (<http://www.karlaholloway.com/>). You can also follow her on Twitter @ProfHolloway.

Nancy

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### **HAPPY BIRTHDAY!!!**

Jeff Trapp – October 3  
Wen-Yih Sun – October 4  
Wen-wen Tung – October 8



## Employment Projections for Geoscience-related Occupations (2008-2018)

Employment in geoscience-related occupations is expected to grow about 23 percent between 2008 and 2018, which is much faster than the average growth of all U.S. occupations (10%). Environmental engineers are expected to see the largest growth in number of new jobs with a 31 percent growth rate, while geoscience engineering managers are expected to see the smallest growth at 10 percent.

Employment growth for aggregated geoscience-related occupations will be most robust in the professional, scientific, and technical services sector (50%) and the waste management sector (32%).

*Note that these projections do not factor in replacement needs due to attrition.*

### Geoscience Currents Discussion Webinar:

*Salary Trends and Employment Projections for Geoscience Careers*

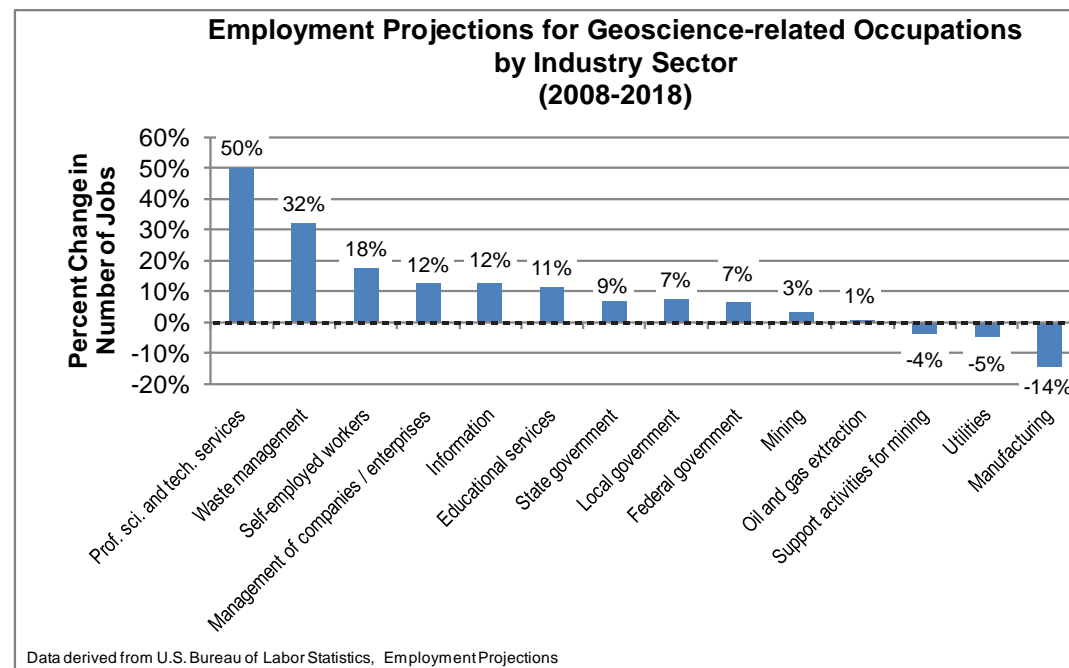
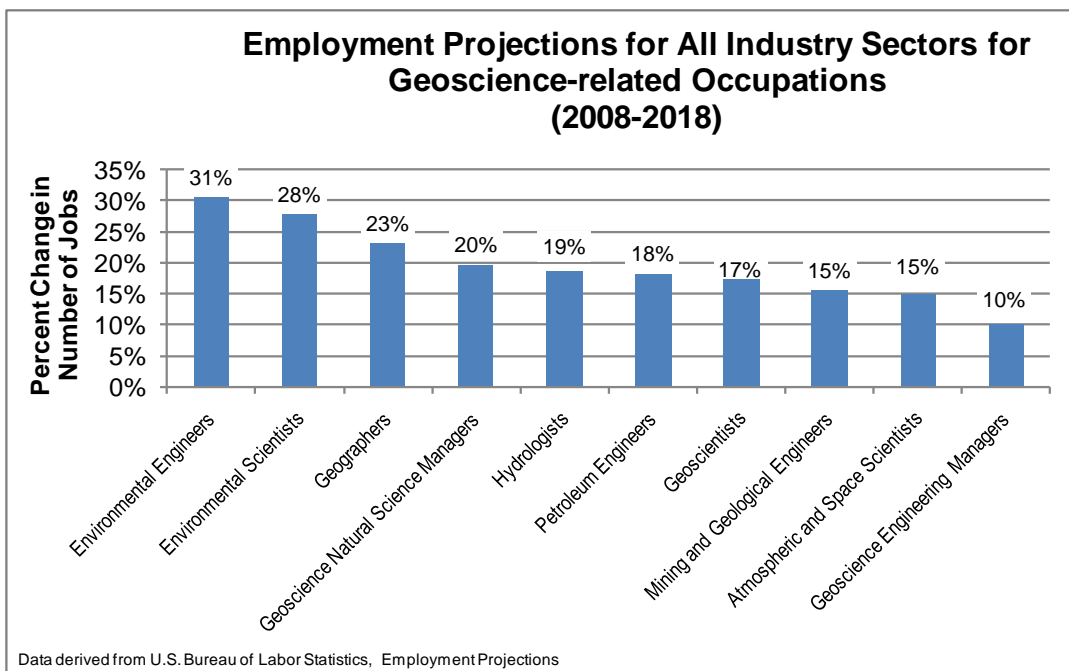
October 3, 2011, 1-1:30 pm US EDT

Listen to an in-depth discussion of Currents #49-53.

Participation in the webinar is free.

Register at:

[www.agiweb.org/workforce/webinars.html](http://www.agiweb.org/workforce/webinars.html)



- Leila Gonzales

Department of Chemistry

2011 Fall Chemical Education Seminar Series

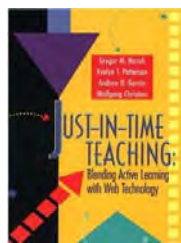
October 5, 2011 in WTHR 201 at 4:30 PM

"Just-in-Time Teaching: Leveraging Homework to Improve  
Learning in Class"

Presented by

Andrew Gavrin, Indiana University Purdue University Indianapolis

Chair & Associate Professor, Department of Physics



Just-in-Time Teaching (JiTT for short) is a teaching and learning strategy based on the interaction between web-based study assignments and an active learner classroom. Students respond electronically to carefully constructed web-based assignments which are due shortly before class, and the instructor reads the student submissions "just-in-time" to adjust the classroom lesson to suit the students' needs. Thus, the heart of JiTT is the "feedback loop" formed by the students' outside-of-class preparation that fundamentally affects what happens during the subsequent in-class time together. (From <http://jittdl.physics.iupui.edu/jitt/what.html>)

# Plan to Join Us



## Alumni, Friends and Student Reception

**Monday, October 10, 2011**  
**7:00 - 9:00 pm**

**Hilton Minneapolis**  
**Marquette Ballroom VI**  
**1001 Marquette Avenue**  
**Minneapolis, Minnesota**

No RSVP required  
Contact [zurnbirk@purdue.edu](mailto:zurnbirk@purdue.edu) for more information



# KRANNERT LEADERSHIP SPEAKERS SERIES

presents

**DORIS KEARNS**



**GOODWIN**

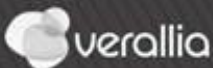
**THURSDAY  
10.20.11  
6:30PM  
PMU BALLROOMS**

**TICKETS \$25  
FOR PURDUE STUDENTS,  
FACULTY AND STAFF**



**PURDUE**  
UNIVERSITY

FOR INFORMATION/TICKETS: MELISSA EVENS, 765-494-4392 OR MEVENS@PURDUE.EDU, WWW.KRANNERT.PURDUE.EDU/EVENTS/LSS



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