

December 6, 2010

UPCOMING MEETINGS

Monday, December 6

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

Tuesday, December 7

- COS Faculty Meeting, LWSN 3102A/B (4:30 p.m.)

Friday, December 10

- Leadership Committee, CIVL 2201 (2 p.m.)

EAS SEMINAR

Thursday, December 9, at 3:30 p.m. in CIVL 1252:

"The Use of Airborne GPS Radio Occultation to Investigate Tropical Cyclone Development."
Jennifer Haase, EAS, Purdue

Refreshments at 3 p.m. in CIVL 2201

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

OUR RECENT PUBLICATIONS

Anthony, K. M. W., D. A. Vas, L. Brosius, F. S. Chapin III, S. A. Zimov, and Q. Zhuang (2010) Estimating methane emissions from northern lakes using ice bubble surveys, *Limnol. Oceanogr.: Methods* 8, 592–609. ([PDF](#))

Bowen, G. J., and J. C. Zachos (2010), Rapid carbon sequestration at the termination of the Paleocene-Eocene Thermal Maximum, *Nature Geoscience*, DOI: 10.1038/NGEO1014.

Liu, Z., G. J. Bowen, and J. M. Welker (2010), Atmospheric circulation is reflected in precipitation isotope gradients over the conterminous United States, *Journal of Geophysical Research*, 115, D22120, doi:10.1029/2010JD014175.

Mason, S. L., T. R. Filley, G. D. Abbott, A comparative study of the molecular composition of a grassland soil with adjacent unforested and afforested moorland ecosystems using ¹³C labeled tetramethylammonium hydroxide (¹³C-TMAH) thermochemolysis. *Org. Geochem.* (2010), doi:10.1016/j.orggeochem.2010.11.003.

Tang, J., Zhuang, Q., Shannon, R. D., and White, J. R.: Quantifying wetland methane emissions with process-based models of different complexities, *Biogeosciences*, 7, 3817-3837, [doi:10.5194/bg-7-3817-2010, 2010](#).

RECENT PRESENTATIONS

Angel R. Torres-Valcarcel gave a workshop entitled, "School Composting Workshop" teaching theory and practice for Agriculture students on how to build a Compost Pile. The workshop was presented at Epifanio Estrada Middle School – Aguada, Puerto Rico on November 22.

Mike Baldwin gave an invited presentation at the IUPUI Department of Earth Sciences colloquium entitled, "Feature-specific analysis and prediction in weather prediction and climate simulation" on November 29.

REMINDER ABOUT HOLIDAY GREETING CARDS FROM ACCOUNTING SERVICES

This is your annual reminder that holiday greeting cards (or Christmas or seasonal) are unallowable on any University controlled fund source – by any purchasing mechanism. University controlled fund sources include any University account number. Likewise, University funds should not be used to purchase flyers, posters, or any other holiday or seasonal items.

Use of the University Purchasing card is likewise not allowed for these purchases. Requests for these types of cards from Printing Services should use SDIP/PRF funds if for approved purposes (i.e., cards for donors). Even if you are using PRF funds, these items should not be sent using campus mail.

ALUMNI AND FRIENDS RECEPTIONS AT AGU AND AMS

AGU Alumni and Friends Reception
Wednesday, December 15, 7:00-9:00p
ThirstyBear Brewing Company, Billar Room
661 Howard Street, San Francisco

AMS Alumni and Friends Reception
Tuesday, January 25, 2011, 6:30-8:30p
Seattle Sheraton, 1400 6th Avenue
Seattle, Washington 98101 [Map](#)

**GEOLOGY AND ENVIRONMENTAL ISSUES
ACROSS INDIAN COUNTRY FIELD COURSE
JUNE 13-25**

**(This article is a correction to the article in the
Nov 22 newsletter entitled
"Summer Geology Field Course")**

Land use, water rights, and resource management issues across the Four Corners area are clearly linked to the geologic framework of this rugged, beautiful landscape. During this 12-day field expedition, we discussed both the cultural and geologic components of the traditional homelands of the Navajo, Hopi; Paiute, Havasupai, Hualapai and other Native nations of the Southwest. Native and non-native communities in this area are addressing critical questions about groundwater and surface water use; hydrocarbon, coal, and uranium exploration; preservation of ecosystems; and air pollution. During the course of this field trip, we discussed these issues as they relate to the geologic setting of the Colorado Plateau region and local Native communities. The trip was guided by Prof. Ken Ridgway (Dept. Earth and Atmospheric Sciences, Purdue University; Lenape nation; ridge@purdue.edu) and Felica Ahasteen-Bryant (Director of Native American Educational and Cultural Center, Purdue University; Dine' Nation; fahastee@purdue.edu). Most of the major costs of the trip were covered through the National Science Foundation and a generous donation by Dr. Lee C. Atkinson (EAS alumnus). The students on the trip were: Ty Boyd, Hailey Bryant, Alex DeWitt, Marie Fialkowski, Mike King, Nils Landon, Raul Ochoa, Bill Pfeifer and Darryl Reano. Alumnae Leanna Begay and Kim Davis were also on the trip.

2011 SHOWALTER TRUST COMPETITION

Please see the [memo](#) from Associate Dean Francisco, regarding the 2011 Showalter Trust Competition (which includes a focus on air and water pollution research). Note that the PI on these proposals must be an assistant professor (faculty at other ranks can be collaborators).

**OVPR INDUSTRY RESEARCH AND
COLLABORATION WORKSHOP**

The Office of the Vice President for Research will host a workshop entitled, **OVPR Industry Research and Collaboration**, on December 14, 2010 in STEW 322 from 11:30 to 1:00, lunch provided.

This workshop will be an excellent opportunity for new faculty to gain valuable insight and learn about the resources available in the development of successful industry research collaborations. [Read more...](#)

EAS LIBRARY'S NEWEST BOOKS

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

**U.S. DEPARTMENT OF HOMELAND SECURITY
(DHS) EDUCATION PROGRAMS**

This program includes areas such as natural disasters and related geophysical studies, advanced data analysis and visualization. [Read more...](#)
[Note: Juniors who are interested in GIS / Environmental could work with EAS alumni at Oak Ridge in Tennessee.]

**APPLICATIONS NOW BEING ACCEPTED FOR
ESRI'S SUMMER INTERNSHIP PROGRAM AND
ESRI UC STUDENT ASSISTANTSHIP PROGRAM**

Both programs provide great work experience as well as opportunities to network with professional GIS users and explore career options. [Read more...](#)

TEXAS A&M UNIVERSITY REU SITE

Texas A&M University has a new REU site funded by the National Science Foundation for ten undergraduate students to conduct cutting-edge research in the cloud forests of Costa Rica. [Read more...](#)

A NOTE FROM OUR ACADEMIC COUNSELOR

Where Do You Want to Go Today...?

Research in the Cloud Forests of Costa Rica

Texas A&M University has a new REU site funded by the National Science Foundation for 10 undergraduate students to conduct cutting-edge research in the cloud forests of Costa Rica. Specifically, students will have an opportunity to conduct research in the areas of:

- Climate controls and change in a cloud forest
- Plant-atmosphere feedbacks
- Soil-atmosphere interaction
- Partitioning of atmosphere and soil moisture

Successful applicants will receive all expenses paid trip to Costa Rica in addition to a \$500 a week stipend. Further information about the program can be found at <http://costaricareu.tamu.edu/> and a description of the Soltis Center for Research and Education in Costa Rica can be found at <http://soltiscentercostarica.tamu.edu/>. The REU program is only open to citizens and permanent residents of the United States. The application deadline is **January 31, 2011**.

Contact information: Dr. Chris Houser, Assistant Professor, REU Site Director: Ecohydrology of Tropical Montane Cloud Forest (<http://costaricareu.tamu.edu/>), Department of Geography, Texas A&M University, <http://geography.tamu.edu/profile/CHouser>.

Study Tour in Italy

Callout on **December 9** at 6:00 p.m. in MTHW 209. Learn about the 7-day Tuscany tour which departs on May 17, 2011. Arrive in Florence and begin your tour of Italian culture, cuisine, economics, and import/export influences. Tour highlights with Big Joe Clark include:

- Visit a cooking school where a local chef will share his perspective and provide hands-on instruction in traditional Tuscan cooking. Let's go Cook Italian!
- Learn about olive oil, cheese, wines and other native cuisine and Italian products.
- Tour the Santa Maria del Fiore Cathedral, the Baptistry with the Bronze "Gate of Paradise" eastern doors, the Galleria Uffizi and the Galleria Accademia.
- Tour medieval San Gimignano with its 13 majestic towers as well as the Etruscan walled city of Volterra.

- Lodge and dine in classic Italian Villas dating back to the 13th Century, while exploring their history and timeless landscapes.

CREDIT: 3 credits for CSR 33200 or a free elective. All Majors welcome! – All Classifications welcome!

CONTACT: Instructor Joe Clark (765) 640-1524 or bigjoe@yourlifeafterwork.com

Want more information on Study Abroad? Check out the [update page: https://www.science.purdue.edu/undergraduate-students/study-abroad](https://www.science.purdue.edu/undergraduate-students/study-abroad).

Lafayette Internship Fair

The [Greater Lafayette Commerce](#) will hold its first Annual Internship Fair on Wednesday, December 8, from 10 a.m. to 2 p.m. at the National Guard Armory, 5128 Haggerty Lane, Lafayette. Participating businesses seek interns for paid, unpaid or class-credit positions for spring, summer, and fall. Students may inquire about scholarship funding, available through Tecumseh Area Partnership Inc., to help compensate for an unpaid internship. Students from all majors, graduate and undergraduate, are invited to attend this free event.

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/ 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) 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>.





NWS College Road Tour



Tuesday, December 7th, 2010
4:00 PM Civil Engineering Building, Room 2201

Personnel from regional National Weather Service offices will be here to talk about:

- **Student Opportunities in the National Weather Service**
- **How to Make Your Resume Shine**
- **How to Prepare for an Interview**
- **Case Studies**
- **Weather Jeopardy!**
- **AND MORE!**

Dress appropriately- you could meet your future employer!

All meteorology students are strongly encouraged to attend this event. Whether you know you want to work for the National Weather Service or you are just interested in learning more about careers in meteorology, this will be an evening of opportunity, weather, and fun!

Following the presentations, we will have dinner at Spurlock's West (paid for by the department) and an opportunity for students to visit and network with these professionals! Rides will be available for those who do not have a car. Hope to see you there!



Illinois-Indiana Sea Grant

presents

2011 Fellowship Opportunities

Come learn about five lucrative graduate fellowships offered through Illinois-Indiana Sea Grant! Award winners work with federal agencies to tackle issues facing U.S. coastlines.

December 8, 2011
6:30pm

Dean's Auditorium
Pfendler Hall

Please join us for an evening of pizza and fellowships! For more information about the fellowships or the application process, contact Angela Archer at amcbride@purdue.edu or 765-496-3722.

For information about Illinois-Indiana Sea Grant, visit our website at:

www.iiseagrant.org



Sea Grant
ILLINOIS - INDIANA

Illinois-Indiana Sea Grant

1101 West Peabody Drive
Urbana, Illinois 61801

Phone (217)-333-6444
www.iiseagrant.org



Assistant or Associate Professor, Science Education

Position: The University of Nebraska-Lincoln (UNL) College of Arts and Sciences seeks to fill up to two tenure-track or tenured positions as part of a campus-wide initiative focusing on the development of a nationally recognized program of excellence in science education. The positions, to be associated with tenure homes in Biological Sciences, Chemistry, Earth and Atmospheric Sciences, or Physics and Astronomy, are anticipated to emphasize research and/or outreach activities related to student learning in science, particularly in relation to recruitment, education, or retention of future science teachers. The anticipated start date is August 2011.

Qualifications: Successful candidates must have a Ph.D. or equivalent in a field of life, physical, or Earth sciences and/or education. Preferences will be given to applicants with a record of scholarly activity, demonstrated potential for developing an externally funded research program, and expertise in the teaching of science content or pedagogy to all students.

Duties and Responsibilities: Teaching duties will include graduate and undergraduate courses appropriate for the home science department, including courses that promote recruitment, training, and/or retention of science teachers. The successful candidates will develop a nationally recognized and externally funded research program, and work with faculty across the entire campus to move UNL to a position of national leadership in science education. For additional information go to <http://nuteach.unl.edu/>.

Rank/Salary/Benefits: Assistant or associate professor, tenure-track or tenured. UNL offers a benefits package that makes available: group life, health, disability insurance and family coverage programs; TIAA/CREF and or Fidelity Investment Fund retirement plans; and dependent tuition remission.

Applications: To be considered for one of these positions, go to <http://employment.unl.edu>, search for requisition number 100632, and complete the faculty academic administrative information form. Applicants should attach a vitae, a statement of research and teaching interests, contact information for three references, and a personal statement, which should also identify a potential home science department. Candidates for the assistant professor position should also arrange for three letters of reference to be submitted by e-mail to **Brenda West (bwest1@unl.edu)**. Review of applications will begin **December 1, 2010**, and continue until the position has been filled.

The University of Nebraska has an active National Science Foundation ADVANCE gender equity program and is committed to a pluralistic campus community through affirmative action, equal opportunity, work-life balance, and dual careers.