

October 10, 2011

UPCOMING MEETINGS

Friday, October 14

- Atmospheric Science Tea, CIVL 2201 (9:30 a.m.)

Monday, October 17

- Primary Committee, CIVL 3201 (11:30 a.m.)

THESIS DEFENSE

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

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

Wednesday, October 12, at 11 a.m. in CIVL 2201:

"Observations and Simulations of Multiscale Convective Systems in the South Asian Summer" by Yi-Chi Wang. Advisor: Wen-wen Tung

RECENT PRESENTATIONS

Professor Qianlai Zhuang was invited to participate in a DOE Workshop regarding model data needs for soil carbon in permafrost region in Argonne National Laboratory, Argonne, Illinois, October 3-4, 2011. He gave a presentation entitled, "Quantifying the greenhouse gas exchanges between the biosphere and atmosphere in the Arctic."

The EAS Severe Weather Research Group gave the following oral presentations at the 6th European Conference on Severe Storms:

- J. Trapp, "Interannual variations in tornado frequency and their association with regional atmospheric conditions: Implications for seasonal predictions"
- E. Robinson et al., "Regional trends in severe convective weather: A dynamical downscaling approach"
- M. Toth et al., "Enhancing tornado climatologies with Doppler radar"

The conference was held in Palma de Mallorca, Spain, October 3-7, 2011.

WORKSHOP PARTICIPANT

Professor Qianlai Zhuang participated in the 3rd NASA Carbon Cycle & Ecosystems Joint Science Workshop at the Hilton Alexandria Mark Center, Alexandria, Virginia, October 3 - 7, 2011.

AAAS FELLOWS

Jay Melosh, along with Engineering Dean, Leah Jamison and Nobel Laureate, Ei-ichi Negishi, were inducted as fellows into the American Academy of Arts and Sciences in a ceremony that was held on the Harvard University Campus in Boston, Massachusetts on October 1.

P.F. LOW TRAVEL GRANT WINNERS

Congratulations to Courtney Creamer, Alexandria Vincenza Johnson, and Justin VanDeVelde who have been awarded P.F. Low Travel Grants to present at the 2011 AGU Annual Meeting.

Creamer will be presenting on "Drivers of belowground C accrual in response to woody plant encroachment of grasslands." Johnson on "A field study of first ice formation in maritime cumulus clouds." And VanDeVelde on "Early Paleogene clumped-isotope soil temperatures from southwestern North America."

9TH ANNUAL EAS HOG ROAST

The Grangers will be hosting the 9th annual EAS hog roast and bonfire October 22, only two weekends from now. Please plan to come, and bring a side dish or something to share. See the [flyer](#) at the back of this newsletter for more details.



OUTREACH CORNER

- ✓ Remember if you do an activity, talk, presentation, etc. with any k-12 students, teachers or community persons; let Steven Smith know what you did, when, and how many participated. We report these numbers to the College of Science for the department.
- ✓ Have a grant that you are getting ready to write and would like some help with the broader dissemination? You don't have to do it alone! Steve can help... email him today!

Upcoming Outreach Opportunities

Purdue Homecoming

- **When:** (Saturday) October 22, 2011 [8:00 to 11:30am]

- **Where:** Right here on campus in front of the Civil building!
- **What is going on:** We will be doing hands-on activities in a booth with the College of Science for the thousands of alumni and their families before the game. This is a high energy couple of hours!
- **What is needed:** EAS peeps to interact with alumni and run activities in the booth.

Edgelea Elementary Family Science Night

- **When:** (Tuesday) November 15, 2011 [6:00 to 7:30pm]
- **Where:** Edgelea Elementary, West Lafayette
- **What is going on:** We will be running demos on a table for students and their families to check out as they pass by.
- **What is needed:** Volunteers to run the demos/activities.

See all current [upcoming opportunities](#).

YOU ARE INVITED

The Center for Instructional Excellence (CIE) and Instruction Matters: Purdue Academic Course Transformation (IMPACT) would like to invite you to attend Visiting NCAT Scholar Dr. John Squires' presentation on "Transforming your Course thru Re-design" on October 12 from 12:30 – 2:30 p.m. in KRAN Auditorium. The focus is on developing strategies for the effective transition of STEM educational research to classroom practice across higher education. Informational sessions are as follows:

An Overview of Course Redesign (12:30-1:30)

- Principles
- Models and Examples
- Learning Theory
- Q&A / Discussion Throughout

Case Studies - Emporium Model (1:30-2:30)

- Chattanooga State and Cleveland State
- Studies on Course Redesign / Potential Impact on STEM
- John Squires' Experience in Course Redesign
- Q&A / Discussion Throughout

PURDUE UNIVERSITY LIBRARIES ANNOUNCES THE 2011-2012 LIBRARY SCHOLARS GRANT PROGRAM UNDERWRITTEN BY THE CLASS OF 1935

The Purdue University Libraries will continue the Library Scholars Grant Program this year with a focus on supporting access to unique collections of information around the country and the world. Awards of up to \$5,000 will be made for this purpose... [Read more...](#)

UNIVERSITY OF TORONTO ASSISTANT PROFESSOR, GEOLOGY

The Department of Chemical and Physical Sciences at the University of Toronto Mississauga is seeking applications for a tenure-track position at the Assistant Professor level from scholars with research interests in Geochemistry, Geophysics, Sedimentology or related fields. [Read more...](#)

MISSOURI STATE UNIVERSITY ASSISTANT PROFESSOR

Missouri State University's Department of Geography, Geology and Planning invites applications for a tenure-track Assistant Professor with an emphasis in Mineralogy and Structural Geology to begin in August 2012. [Read more...](#)

NORTHERN ILLINOIS UNIVERSITY TENURE-TRACK POSITION

The Department of Geology and Environmental Geosciences at Northern Illinois University invites applications for an anticipated tenure-track position at the rank of Assistant Professor to begin August, 2012. [Read more...](#)

UNIVERSITY OF CINCINNATI ASSISTANT PROFESSOR POSITIONS

The University of Cincinnati Department of Geology is seeking to fill three Assistant Professor Positions in the areas of Biogeochemistry, Quaternary Geochronology, and Numerical Modeling of Earth Systems. [Read more...](#)

WELLESLEY COLLEGE TENURE-TRACK FACULTY POSITION

The Department of Geosciences at Wellesley College invites applications for a tenure-track faculty position at the rank of assistant professor beginning August 2012. [Read more...](#)

**UNIVERSITY OF ILLINOIS AT
URBANA CHAMPAIGN**

**Tenure Track Assistant or Tenure Track/Tenured
Associate Professor Search**

The Department of Atmospheric Sciences within the School of Earth, Society, and Environment at the University of Illinois at Urbana-Champaign invites applications for a full-time, tenure track/tenured faculty position at the rank of Assistant or Associate Professor in climate science. The position is a nine-month academic appointment with a target start date of August 16, 2012. [Read more...](#)

CLEAN ENERGY CHALLENGE CALLOUT

Purdue University is a proud partner in the Clean Energy Trust. Purdue Students are encouraged to participate in the Clean Energy Challenge 2012 in which the top state winner receives \$10K and the top regional winner receives \$100K. The Clean Energy Challenge will be held March 2012. [Read more...](#)

SMART PROGRAM

The SMART (Science, Mathematics, and Research for Transformation) Program will pay for all educational expenses for a B.S., M.S. or Ph.D. program, and then provide scholars unique opportunities to work as research scientists or engineers on cutting edge technology in world class Department of Defense facilities. [Read more...](#)

**NATIONAL PHYSICAL SCIENCE CONSORTIUM
GRADUATE FELLOWSHIP IN THE
PHYSICAL SCIENCES**

The National Physical Science Consortium (NPSC) is a unique partnership of industry, government and higher education. NPSC helps its partners to recruit, identify, select, and support outstanding U.S. doctoral students. The Fellowship Program of the National Physical Science Consortium (NPSC) is again open for receipt of applications at www.npsc.org.

NPSC offers two programs.

1. The Traditional NPSC Program provides a two-phase, six-year fellowship. Initial support is for two or three years, depending on the employer-sponsor. If the student makes satisfactory progress and continues to meet the conditions of the award, support may continue for a total of up to six years. Students typically apply while seniors in college.

2. The Dissertation Support Program provides support while the graduate student conducts dissertation research. Students should apply in the year prior to the beginning of their dissertation research program, but not until they can describe their research at least in general terms.

The deadline for the online application is November 5, 2011.

**A NOTE FROM OUR ACADEMIC COUNSELOR
Enrolled in CHM 115 this Fall?**

Every Friday, from 12:30-1:30 p.m., four Chemistry Faculty (Dr. Towns, Dr. Bart, Dr. Harwood and Marybeth Miller) go to Earhart Hall for lunch with students. At this time students can ask questions about homework (that is due on Friday night) and about CHM 11500 lectures or labs, and chat about chemistry in general. This is a great opportunity to interact with Faculty.

Charles C. Chappelle Fellowship Workshop

Monday, **November 14**, 12:00 – 1:00 p.m. The workshop will provide information on the materials that are needed and resources that are available for funding graduate education. There will be time at the end of the workshop for questions. The Charles C. Chappelle Fellowship provides a one-year fellowship to students with undergraduate degrees from Purdue to pursue post-graduate research at Purdue University. Register at https://ias.itap.purdue.edu/rgs/wgb_workshop.disp_online_workshop.

**The 2012 Elie Wiesel Prize in
Ethics Essay Contest**

Since 1989 the Elie Wiesel Foundation for Humanity has sponsored the Prize in Ethics Essay Contest. This annual competition challenges college students, full time juniors and seniors, to analyze the urgent ethical issues confronting them in today's complex world. Students are encouraged to write thought-provoking personal essays that raise questions, single out issues and are rational arguments for ethical action.

Suggested topic: Articulate with clarity an ethical issue that you have encountered and analyze what it has taught you about ethics and yourself. There are cash awards, and winning students are eligible for an internship, and a chance for their essay to be published in a nationally recognized publication. The Foundation requires an official letter from your Registrar on your institution's letterhead, or from the National Student Clearing House verifying your

enrollment as a full-time undergraduate Junior or Senior in the Fall of 2011. Please obtain this and upload as a PDF as part of your online submission. **Contest deadline: December 5, 2011 by 5pm PST.** Please enter online: www.ethicsprize.org.

- No paper or hard-copy submissions will be accepted.
- Essays will be uploaded as a PDF (.pdf).
- Please note that due to the volume of entries, no materials will be critiqued or returned.

Entry form and detailed guidelines are available online at: <http://www.eliewieselfoundation.org/entryform.aspx>.

Rescues

Sea Turtles 911 is a non-profit organization dedicated to the conservation of sea turtles. They focus efforts on the South China Sea, home to the critically endangered Hawksbill sea turtle and endangered Green and Olive Ridley sea turtles. Their primary mission includes rescuing illegally captured and raised sea turtles, rehabilitating sick and injured turtles, raising hatchlings from poached eggs, and releasing sea turtles into their native habitat. They also focus on research at a floating sea turtle hospital as well as provide educational opportunities to people in the community and tourists in nearby resort cities. For more information contact: www.seaturtles911.org.

Nancy

IMPORTANT NOTICE ABOUT THIS NEWSLETTER

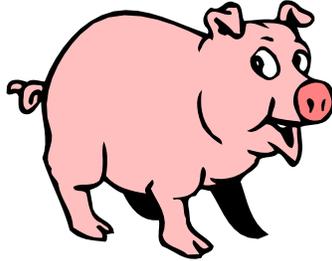
This newsletter will now be used as the primary information source for current and upcoming events, announcements, awards, grant opportunities, and other happenings in our department and around campus. Active links to additional information will be provided as needed. Individual email announcements will 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/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>.



9th Annual EAS/PRIME Lab Hog Roast & Bonfire



October 22, 2011
5:30pm-??

At the home of Darryl and Allison Granger
3025 State Road 25 West
Shadeland
471-4654

Please Bring:

A side dish or drinks, and a chair to sit on!

Directions:

From West Lafayette, take 231 S across the river and turn right at State Road 25 W. Continue for about 3 miles (just past the gas station). Look for a white farmhouse on the left and a big red barn.

What Do You Know About Dwarfism?



Ethan Crough is currently a stay-at-home father, an assistant librarian with the Bartholomew County Public Library, a public speaker, and the Vice President of Membership for Little People of America. Ethan has worked at the Statue of Liberty National Monument, Department of the Environment for San Francisco, a double-decker tour bus in New York City, and on stage. Articles of his have appeared in *The Republic* and the *San Francisco Chronicle*. Advocacy projects include Dwarfism Awareness Month in Indiana, an Associated Press Style Guide change, and a Midwest trip to schools with “midget” as part of their mascot. This year marked the 25th S. Thomas Crough Memorial Lecture for his late father at Purdue University. Ethan lives in Columbus, Indiana with his wife and two children.



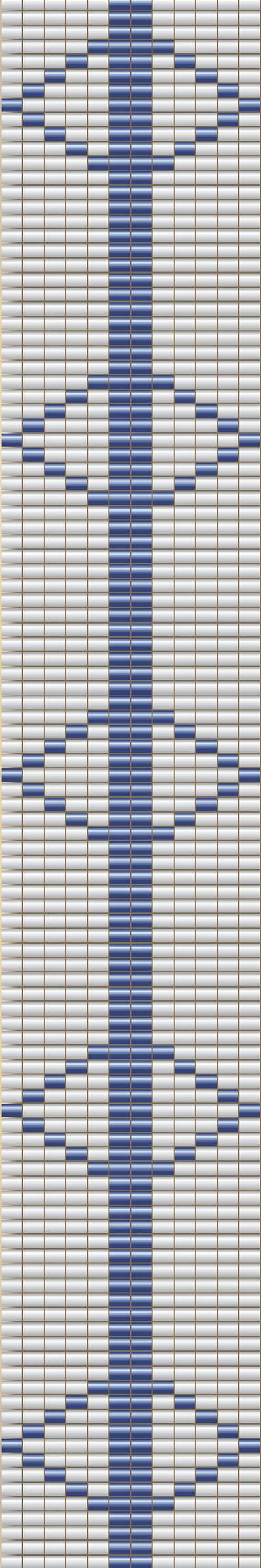
*Sponsored jointly with the Department of Earth & Atmospheric Science
and the Science Diversity Office*

Is it from textbooks, the Learning Channel, movies, or a friend? There are more than 200 types of dwarfism in the world and speaker Ethan Crough has one of them. Join Crough, Vice President of Membership for Little People of America, to learn about the history of dwarfism, the importance of being employed for your abilities, and what day to day life is like for a person with dwarfism.

Indiana recently named October a Dwarfism Awareness Month, due in large part to Crough’s efforts. The relationships between broader aspects of the disability community and advocacy work will be discussed. Audience members will also participate in an activity showing stereotypes and how we create them in various industries.

Through his unique experiences and perspective, Crough’s discussion-based presentation gives you the chance to ask questions so you come away with a new knowledge and a greater understanding of dwarfism.

Thursday, October 27, 2011
Presentation: 12:00-1:00 pm
Q&A: 1:00-1:20 pm
Room 1109, Armstrong Hall



Wiping Away the Tears

The Battle of Tippecanoe in History and Memory

Recalling History, Rediscovering its Impact

November 3-5

**Pfendler Hall Dean's Auditorium
Purdue University**

You are invited to participate in a symposium that takes a fresh look at the **Battle of Tippecanoe** in recognition of its 200th anniversary.

Featuring keynote speaker **Susan Harjo**, Native American poet, writer and advocate.

Sponsored by

Office of the Vice President
for Research

Office of the Provost

College of Liberal Arts

Department of Anthropology

Department of History

Native American Education
and Cultural Center

Tippecanoe County
Historical Association

At Purdue University,
Prophetstown State Park and
Tippecanoe Battlefield Park

Hear from historians, archaeologists, museum specialists and tribal representatives on the social and historical context of the battle and current efforts to interpret this important event in the history of Native Americans, Indiana and the United States.

Includes a field trip to
Tippecanoe Battlefield Park
and Prophetstown State Park.

For online registration and additional information on the symposium, visit

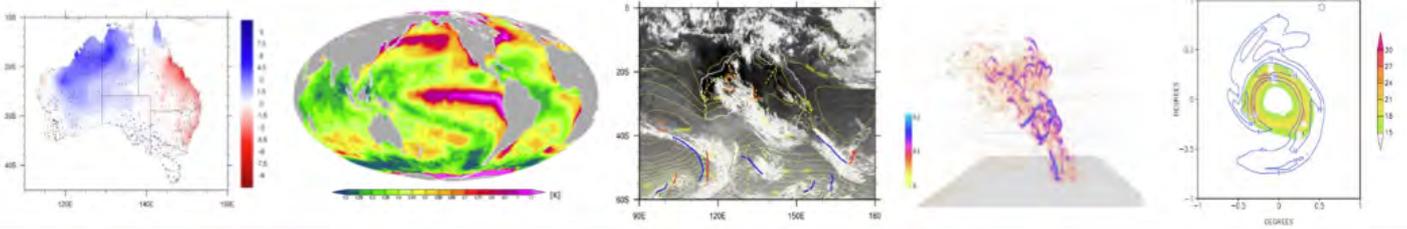
www.purdue.edu/naecc/wipingawaythetears.html

For more information on concurrent events commemorating the Battle of Tippecanoe, visit

www.tcha.mus.in.us



ARC CENTRE OF EXCELLENCE FOR CLIMATE SYSTEM SCIENCE



PhD Scholarships at Monash University in Melbourne, Australia

About us

The Monash Weather and Climate research group combines the expertise of atmospheric and climate scientists from the School of Mathematical Sciences and the School of Geography and Environmental Science to tackle problems related to some of mankind's greatest challenges. These challenges include predicting the weather and climate from days to centuries ahead, and understanding the implications of climate change for Australia and the world at large. Our research activities have recently received the highest rating from the Australian Research Council, making us the leading university-based research group in Atmospheric Science in Australia. (<http://www.monash.edu.au/research/climate/>)

About You

You are an outstanding highly motivated student of atmospheric sciences, oceanography, physics, mathematics or engineering with a masters, diploma or similar degree. You have strong interests in climate science and would like to work in an leading international research team.
... and you apply for this PhD scholarship as soon as you can!

About the Centre of Excellence in Climate System Science

The Centre of Excellence for Climate System Science is a major initiative funded by the Australian Research Council. The Centre is an international research consortium of five Australian universities and a suite of outstanding national and international Partner Organizations. It will build on and improve existing understanding of the modeling of regional climates to enable enhanced adaptation to and management of climate change, particularly in the Australian region. (<http://www.climatescience.org.au/>)

About the PhD scholarships

We will offer a minimum three scholarships for PhD students, on a competitive basis. The scholarships can cover fees and living allowance for 3 years. Generous travel support for PhD students to visit our international partners exist. Many projects will be supervised across Universities, and potentially by experts from CSIRO, the Bureau of Meteorology, or one of our international partners.

Are you interested?

The formal application **deadline for the scholarships is 31 October**. If you are interested in applying, please contact any of the three supervisors below well before that date.

Large-scale Climate Dynamics

Dietmar Dommenges

dietmar.dommenges@monash.edu

Clouds and Tropical Convection

Christian Jakob

christian.jakob@monash.edu

Atmospheric Dynamics

Michael Reeder

michael.reeder@monash.edu



MONASH University