**THE HEAD’S PERSPECTIVE**

Resilience: “the ability to recover quickly from setbacks” (Encarta). This word has come up repeatedly of late, after disasters in Haiti and Chile, and is the theme of a PCCRC conference on campus later this week (http://www.purdue.edu/climate/buildingresilience.html) that has a public session and that brings together scientists and social scientists from the US and Japan. Creating resilient communities will also be the major theme of a public forum that Dr. Eric Calais will lead along with Dr. Reggie DesRoches of Georgia Tech at the University of Miami this week: “Rebuilding for Resilience: How Science and Engineering can Inform Haiti’s Reconstruction”.

So what contributes to making an individual, team, or community resilient? Last week I attended a showing of the new 3-D IMAX movie about the Hubble Space Telescope repair mission that EAS alumnus Drew Feustel took part in. It is a stunning movie, and I highly recommend it as an enjoyable, interesting and inspiring experience. Amazing teamwork, careful contingency planning, extensive practice, creative problem solving, and a commitment by everyone involved to success seem to be critical elements in the resilience they showed when the mission faced setbacks. In comments made by a number of NASA speakers before the movie, it was clear that a lot of effort went into designing the training of the crew to build both expertise and resilience.

**Disaster Deferred**: The disaster preparedness and assessment theme is also continued this week in our annual C. Thomas Crouch Memorial Lecture, “Disaster Deferred: How new science is changing our view of earthquake hazards in the Midwest”. I encourage all of you to attend what will be an exceptional talk by Professor Seth Stein from Northwestern University (refreshments at 3 p.m. in 2201 and the seminar at 3:30 p.m. in 1252). Professor Stein is not only an outstanding and highly-cited researcher, but is a distinguished lecturer and has appeared in a number of documentaries and an IMAX movie.

**UPCOMING MEETINGS**

**Thursday, March 25**
- EAS Executive Committee, CIVL 2173 (9:30 a.m.)

**Monday, March 29**
- EAS Faculty Meeting, CIVL 3201 (11:30 a.m.)

**EAS SEMINAR**

**Thursday, March 25, at 3:30 p.m. in CIVL 2201 – EAS Crough Lecture**: “Disaster Deferred: How New Science is Changing Our View of Earthquake Hazards in the Midwest.” Prof. Seth Stein, Northwestern University

*Refreshments at 3 p.m. in CIVL 2201*

**Monday, March 29, at 4 p.m. in CIVL 2201:**
“Progress in Universality and Realism in Earth System Models.” Dr. Alexander MacDonald, Deputy Assistant Administrator, NOAA Research, Director, NOAA’s Earth System Research Laboratory

*Refreshments at 3:30 p.m. in CIVL 2201*

For more information, see the EAS online calendar.

**OUR RECENT PUBLICATIONS**


**ALUMNI ADVISORY BOARD**

The EAS Alumni Advisory Board will be meeting Thursday, April 15, beginning at 1 p.m. and will continue through noon on Friday, April 16. Details regarding the agenda will be available soon.
RECENT PRESENTATIONS

Sonia Lasher-Trapp gave a talk at the UK Cloud-Aerosol Meeting at the University of Leeds on March 3rd, entitled "CCN vs. Giant Aerosol: Strength in Numbers."

Gabe Bowen gave a talk on March 5th at the University of Chicago, Department of Geophysical Sciences entitled, "Carbon and water cycle feedbacks during the Paleocene-Eocene thermal maximum."

Eric Riggs gave an invited talk at Texas A&M University, Department of Geology and Geophysics on Friday, March 12th titled, "Insights into Field-Based Learning from Geoscience Education Research."

Greg Michalski gave a seminar entitled, "Using stable isotopes for understanding the role of atmospheric chemistry in soil formation in arid regions: Implications for paleoclimate and the surface of Mars" at the China University of Geosciences in Beijing on March 16th. He also gave a seminar entitled, "Multiple stable isotope approach to understanding the nitrogen cycle" at Beijing Normal University on March 17th.

SCIENCE BOOK REVIEW INCLUDES ERIC CALAIS

Eric Calais was mentioned in the February 26 issue of Science in a book review about earthquake prediction written by Christopher Scholtz (Lamont). Scholtz cited Eric's successful prognostication of the Haiti quake as an example of the best type of prediction that one can do at the moment.

EAS ALUM STARS IN IMAX FILM

NASA astronaut Andrew Feustel appears in "Hubble 3D," which was filmed last May during NASA's final mission to capture and repair the Hubble Space Telescope. Read more → online, Purdue news

ANNUAL MEETINGS WITH THE DEPARTMENT HEAD

Please confirm your availability to Dee (gillesp@purdue.edu) to meet with the Department Head as scheduled.

Also, a reminder that your annual report is due March 31. Annual Performance Cover Memo, Annual Performance Template

College of Science Meet and Greet Reception with President Córdova and Provost Sands

Friday, April 2, 2010
10:30 a.m. – 11:00 a.m.
Purdue Memorial Union
Room 263
RSVP by March 29
College of Science 765-494-1857
ScienceEvents@purdue.edu
Please let us know of special needs.

YUCCA MOUNTAIN SEMINAR

On March 8, 2010, Terry West, attended a seminar at the University of Illinois entitled “Yucca Mountain (What Happened?)”. The Yucca Mountain study project was recently shut down by the Obama administration, even though it had been permitted by the Federal government. Three Purdue students also attended the seminar given by Dr. Scott Sinnock who received his Ph.D. from the EAS Department in Geomorphology in 1978 with Dr. Melhorn as his major professor. Scott worked on the Yucca Mountain, high-level nuclear waste repository facility, from 1978 until 1996 first through Sandia National Laboratories and then for TRW as a contractor to DOE. Dr Chris Stohr, who received his M.S. degree in remote sensing from EAS in 1974, with Dr. West as his major professor, served as the host for the visit. Chris is a staff engineering geologist/remote sensing specialist with the Illinois State Geological Survey.

FINAL EXAM POLICIES

See the letter from Randy Woodson as a reminder of two final exam policies.

JUDGES NEEDED

Undergraduate students will showcase their research at the 2010 Undergraduate Research and Poster Symposium (URPS) event in the Purdue Memorial Union Ballrooms on April 7th. The annual URPS is a great opportunity for students to share their research findings with others and be recognized for their poster presentations. For an event like this, we need a lot of judges to talk with the students and evaluate their posters. Read more...

2010 Spectroscopy Roundtable Flyer
PURDUE EMPLOYEES ELIGIBLE FOR PARKING DISCOUNT AT INDIANAPOLIS AIRPORT

The Purdue Travel Office reminds staff that Indy Park, Ride & Fly is a preferred parking vendor for Purdue University. That means employees of Purdue qualify for a discount rate of $7 per day for self-parking and $9 per day for valet when they park their vehicle at Indianapolis International Airport while they travel. The discounted rates apply for both business and personal travel. Read more...

ITAP SURVEYING FACULTY AND STAFF ABOUT RESEARCH COMPUTING NEEDS AND NEW SUPERCOMPUTER

ITaP is planning a new community cluster to be built this spring and is gathering information about what Purdue faculty and staff may need either as a part of the new cluster or in computers for departmental or individual use. The combined purchase allows ITaP to negotiate a better price with vendors in both cases and offers participants more for their money. Read more...

AMS AWARDS NOMINATIONS DEADLINE: 1 MAY 2010

One of the most gratifying experiences we can all share is to witness the excitement and gratitude of our colleagues when we honor them for their contributions to the sciences and services of our Society. Each year the American Meteorological Society presents more than 25 awards to individuals, teams of people, and institutions for their outstanding contributions to the atmospheric and related sciences, as defined broadly by the Society. You are encouraged to nominate scientists, practitioners, broadcasters, and others you believe are deserving of one or more of these prestigious awards. Read more...

ADVANCED-LEVEL GEOLOGIST

The Alaska Division of Geological & Geophysical Surveys (DGGS) is seeking an advanced-level geologist to implement a new applied geologic hazards evaluation program involving studies of coastal processes and geomorphology and managing geologic field project teams throughout the state of Alaska.

For more information and application instructions, please go to Workplace Alaska at: http://notes4.state.ak.us/wa/postapps.nsf/1035bb3f29758c658925644300722fb3/a06103c004c4550f892576da00041d43?OpenDocument.

PURDUE FORECAST GAME RETURNS

The Purdue Forecast Game begins its final session of the 2009-10 season today, Monday, March 22. As usual, forecasters will predict the weather Mon-Fri for two locations: Indianapolis, and the second city for this session is Oklahoma City, Oklahoma. All are welcome to test their prediction skills against numerical guidance products and seasoned forecast veterans. If you have not already signed up and are interested in participating, or have any questions, please contact Prof. Baldwin (baldwin@purdue.edu) as soon as possible. Good luck!

EAS LIBRARY NEW BOOKS

Click here to see the most recent list of new books in the EAS library.

PRF RESEARCH GRANTS

It is time for submissions of proposals for a Purdue Research Foundation (PRF) Research Grant for the 2010-11 year. These grants provide one year of support for a Ph.D. student. We have been notified that the department will receive two (2) PRF research grants for the 2010-11 year. All faculty who supervise Ph.D. research are eligible to apply for a grant. Read more...

UPDATED INFORMATION REGARDING PRF SUMMER FACULTY GRANT

Due to funding limitations EAS will only be able to submit one PRF Summer Faculty Grant proposal to the College.

This means that we will have an internal review prior to the deadline to determine which proposal is submitted to the College. For consideration, send your application (and required forms) to Dee (gillesp@purdue.edu) no later than March 29 (NEW DEADLINE) – please do not send proposals directly to the College of Science.

The EAS internal review/competition will give the highest priority to assistant professors early in their career.
Faculty who have already received this grant in past years will not be eligible.

The CoS process will result in four awardees and three alternates (assuming one request per department).

**FUNDING OPPORTUNITY**

NSF’s Division of Atmospheric and Geospace Sciences would like to bring to your attention an announcement from the Computer & Information Science & Engineering Directorate and the Office of Cyberinfrastructure:


**IISG CALL FOR DEVELOPMENT PROPOSALS**

Illinois-Indiana Sea Grant seeks development proposals from researchers and graduate students. Researchers can request up to $10,000 of seed funding, or funding to complete research that has already been conducted. Graduate students can request up to $6,000 to enhance thesis or dissertation research. Proposals should relate to one of the ten topics of interest to IISG --

Aquaculture  Great Lakes Health
Aquatic Invasive Species  Land Use Planning
Climate Change  Pharmaceutical Disposal
Coastal Restoration  Water Quality
Fish Consumption  Water Supply


**GRAD STUDENT FEATURE**

D. Sarah Stamps was featured in this month's German issue of GEO for her collaborative GPS work in the Rwenzori Mountains of Uganda with Professor Daniel Koenh at the University of Mainz. The article is entitled, "In the World of the First People: A new picture of our origins."

**4TH GRADUATE CLIMATE CONFERENCE**

Abstract submission is now open for the 4th Graduate Climate Conference! GCC4 is scheduled for October 15-17th, 2010 at the University of Washington's Pack Experimental Forest on the slopes of Mount Rainier, Washington. This is a unique conference for grad students, organized and run by grad students. Entering into its 4th installment, the GCC remains true to its mission: provide a discussion forum for graduate students undertaking research on climate and climate change in an array of disciplines, including atmospheric, biological, earth and ocean sciences. The conference is unique because only graduate students are present, providing a rare opportunity for the next generation of climate scientists to interact without the inhibitions that accompany the presence of faculty and senior scientists. The deadline for abstract submission is June 1, 2010. For more information, and a link to the application page, visit the official website: [http://uwpcwashington.edu/gcc](http://uwpcwashington.edu/gcc)

**SUMMER POSITIONS AVAILABLE FOR STUDENT VOLUNTEERS**

The National Weather Service in Wilmington, Ohio has several positions available for student volunteers this summer. [Read more...](http://www.nws.noaa.gov/os/education/summerjobwatch/index.cfm)

**IMPORTANCE AND SATISFACTION SURVEY**

On March 1, Purdue’s Office of the Vice President for Student Services launched the 2010 Student Importance and Satisfaction Survey to all students, including graduate students enrolled at Purdue. The purpose of the survey is to obtain feedback regarding the various services, programs, and events offered at Purdue.

The survey will be available until April 9th. Students should have received an e-mail with a link to the online survey. All students who fully complete the survey will be entered into a random drawing for prizes donated by local merchants. For a preview of prizes, please [click here](http://www.purduecollege.com).

**A NOTE FROM OUR ACADEMIC COUNSELOR**

**Last Call**

Today, Monday, March 22, is the last day to modify your spring schedule for regular, 16-week classes. First-year students (classified as freshman in myPurdue) need advisor and student signatures to drop; sophomores and above need signatures from your advisor and the instructor who also assigns a grade of W or WF. All paperwork must be taken to Hovde, Room 45 before 5 p.m. today for processing.

**Registration**

Summer Regional Campus Registration

Representatives from the following regional campus will be available at West Lafayette to assist with the 2010 summer session registration for students who plan to attend their campus this summer. The location for all of the registrations will be in the Main Lobby of Schleman Hall. Calumet will be here next week.
Who’s on First?
Your exact times to add classes are now posted in myPurdue under Registration Tools and then Registration Status – remember to select Fall 2010 or Summer 2010 and not STAR. Registration will be within the dates/times posted in the table below and based on your current myPurdue classification. Please make certain to read the complete course description which lists any co- or prerequisites for a course; you will receive an error message if there is anything not in alignment.

<table>
<thead>
<tr>
<th>Year</th>
<th>Start date/time – End date/time</th>
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</thead>
<tbody>
<tr>
<td>Senior</td>
<td>March 29, 8 am – April 3, 12 pm</td>
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<tr>
<td>Junior</td>
<td>April 5, 8 am – April 10, 12 pm</td>
</tr>
<tr>
<td>Sophomore</td>
<td>April 12, 8 am – April 17, 12 pm</td>
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<tr>
<td>Current Freshman</td>
<td>April 19, 8 am – April 24, 12 pm</td>
</tr>
<tr>
<td>OPEN to all</td>
<td>April 26, 8 am - June 12, 12 pm</td>
</tr>
</tbody>
</table>

Rube is back: National Rube Goldberg competition is 10:30 a.m. Saturday, March 27, in the Purdue Armory – watch your classmates in action and support their team.

Nancy

HAPPY BIRTHDAY!!!
Joe Francisco – March 26
Dee Gillespie – March 28

~

Check out our new EAS website, which is now up and running!
http://www.purdue.edu/

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.
Scientists and engineers are assessing Haiti’s risk for future earthquakes and developing recommendations for the safe reconstruction of housing, hospitals and infrastructure.

Purdue University Professor of Geophysics Eric Calais has been asked to speak from his extensive experience as a researcher investigating the science behind Haiti’s shifting tectonic plates and the strong earthquakes they have historically produced, and will eventually generate again. Since the earthquake, Dr. Calais has worked closely with the Haitian government and with university colleagues there to understand the potential for future earthquakes.

In this evening Public Forum, Haitian-born Georgia Tech Civil and Environmental Engineering Professor Reginald DesRoches will present his first-hand account of the structural damage in the country, where he has led several engineering assessment teams since the earthquake. Dr. DesRoches has presented recommendations for rebuilding in Haiti to the World Bank and several Congressional committees.

This Forum is open to the public. Ample time will be made available for questions from the audience.

Co-sponsored by the U.S. Department of State, the U.S. Agency for International Development, and the UN International Strategy for Disaster Reduction. With support from NASA, the National Science Foundation and the U.S. Geological Survey.
Admiral Thad Allen
Commandant, U.S. Coast Guard

Admiral Allen is the Commandant of the Coast Guard, the largest component of the Department of Homeland Security and a branch of the armed forces with long historic ties to Purdue. In his 38 years with the Coast Guard, Admiral Allen built a reputation as a decisive, innovative and effective leader, especially in crisis situations. He became nationally known when he was asked to salvage and lead the federal response to Hurricane Katrina, a successful assignment that preceded his promotion to Commandant.