



What's Up?

The EAS Weekly News

November 7, 2005

THE HEAD'S PERSPECTIVE



Hinze

William J. Hinze Symposium and Banquet: Last Friday many EAS faculty and students, as well as some outstanding alumni and guests from across the Midwest, took part in a symposium in honor of Emeritus Professor Bill Hinze's 75th birthday, and his many and continuing contributions to science, teaching and service.

The symposium included extremely interesting presentations and posters on the theme "Geophysical Characterization and the Mid-Continent Crust", with a particular highlight being Bill's own presentation on "The Perfect Gravity Anomaly". The banquet included many testimonials to the amazing impact that Bill's teaching and mentoring has had on the careers of his former students. As part of the recognition of Bill's career, an endowment for the *W.J. Hinze Graduate Award in Exploration Geophysics* has been established, and at the banquet it was announced that over \$40,000 has already been donated to this endowment. The Hinze birthday recognition and alumni gathering is on the road today, with our final event this evening at the Petroleum Club in Houston.

Dr. Mark Chen visit rescheduled. EAS alum and current Foreign Minister of Taiwan, Dr. Tan Sun (Mark) Chen will be visiting Purdue on November 21st and 22nd. His visit will include some time in the Department and a chance to talk to faculty and students. A schedule of events will be in this newsletter the week before his visit.



June and Mark Chen
April 2000

Industrial Collaboration: Last week several EAS faculty met with five senior level executives from Navteq, a leader in digital map data, to discuss a wide variety of science and engineering research areas that might be of interest to them. Navteq went away very excited about potential collaborations with Purdue, and in particular the proposed radar data consortium being put together by Matt Huber and Jeff Trapp. Many thanks to Tim Filley who helped make the initial contact.

UPCOMING MEETINGS

Wednesday, November 9

- EAS Heads, CIVL 2169A (4 p.m.)

Monday, November 14

- Executive Committee, CIVL 2173 (12:30 p.m.)

EAS SEMINARS

Thursday, November 10, at 11:30 a.m. in JNSN

B002: Seminar and Group Discussion on "Localized Compaction in Porous Sandstones" led by John Rudnicki, Northwestern University

Thursday, November 10, at 3:30 p.m. in CIVL

1252: The 22nd Annual S. Thomas Crough Memorial Lecture: "Dynamics of Rupture through Branched and Offset Fault Systems." James R. Rice, Harvard University

Friday, November 11, at 11:30 a.m. in CIVL 3201:

Geodynamics Lecture on "Pore Pressure Effects on Dynamic Rupture Due to Near-Fault Heterogeneity" by John Rudnicki, Northwestern University

Friday, November 11, at 1:30 p.m. in CIVL 2108:

Seminar and Group Discussion on "Extreme Localization of Seismic Shear and Physics of Weakening during Earthquakes on Mature Faults" led by James R. Rice, Harvard University

For more information on the events and speakers for November 10-11, [Click here](#).

For future meetings and seminars go to: <http://www.science.purdue.edu:8085/eas/seminars>.

FACULTY STUDY IN A SECOND DISCIPLINE

The Faculty Program of Study in a Second Discipline provides an opportunity to faculty members who would like to extend their scholarship through study in a new but related field of study. This program has been established to enable interdisciplinary teaching and research. Details are available at <http://www.purdue.edu/provost> under Faculty Program Documents. Requests can now be made for awards commencing in August 2006 and January 2007.

RECENT PRESENTATIONS

Wen-Yih Sun gave a talk entitled, "Atmospheric Models Developed at Purdue and Applications" in the Hydraulics/Hydrology Seminar Series in Civil Engineering at Purdue on October 31.

Professor Cushman was one of three organizers for the *6th North American Workshop on Applications of Physics to Porous Media* held in Puerto Vallarta, Mexico from October 26-30, 2005.

Invited talks:

J. H. Cushman: Renormalizing Chaotic Dynamics in Fractal Porous Media: Application to Microbial Transport, Puerto Vallarta, Mexico

T. Weinstein: Three Phase Hybrid Mixture Theory for Porous Drug Delivery Substrates, Puerto Vallarta, Mexico (Tessa is Cushman's post-doc)

FROM OUR BUSINESS OFFICE Recent Proposals

Cushman, John: Ecofore06 Salmon and Ecological Change: Columbia River Basin. University of California, Davis/NOAA – \$100,042

Gurney, Kevin: High-Resolution Fossil Fuel Emission Estimates in Support of NACP CO₂ Measurements and Assimilation System. Colorado State University/NASA – \$73,121

Gurney, Kevin: High-Resolution Fossil Fuel Emission Estimates in Support of NACP CO₂ Measurements and Assimilation System. NASA – \$374,896

Zhuang, Qianlai: The Impact of Climate Change on Large Lake/Small Lake Systems. Woods Hole Oceanographic Institution/EPA – \$208,068

Zhuang, Qianlai: Evaluating Interactive Effects of Climate and Atmospheric Chemistry on Crop Ecosystems in the Midwestern United States. EPA/DOE – \$684,992

Recent Awards

Zhuang, Qianlai: Collaborative Research: Synthesis of Artic System Carbon Cycle Research Through Model-Data Fusion Studies Using Atmospheric Inversion and Process-Based Approaches. NSF – \$245,883

Ogg, James G.: (1) Time Scale of Earth History - Database Enhancement, Tools and Visualization, and (2) Database Development for Magnetostratigraphy. Iowa State University/NSF – \$30,000

NATIONAL WEATHER SERVICE VISIT TO PURDUE

Representatives from the Indianapolis, IN and Louisville, KY National Weather Service Offices will visit Purdue on **Tuesday, November 8**, from **4:30-6:30 p.m.** (in **CIVL 4251**), to discuss NWS operations, careers, and research activities, and also to meet with faculty members who are interested in possible collaborative research. A schedule follows. All students and faculty are invited to attend.

4:30-4:45 – Angie Lese (NWS Louisville), on NWS Operations and her NWS career

4:45-5:30 – John Ogren (Indianapolis) and John Gorden (Louisville), the NWS Jeopardy Game

5:30-5:50 – John Kwiatkowski (Indianapolis), on NWS Operations

5:50-6:30 – Ted Funk (Louisville), on his NWS research activities

Students and faculty are encouraged to join the NWS personnel for dinner (TBA) following the presentations, for additional questions and discussion.

2006 PRF INTERNATIONAL TRAVEL GRANTS

PRF International Travel Grants for 2006 have been announced. Numerous changes have been implemented beginning with this year's competition. For more information, see: <http://www.purdue.edu/research/vpr/funding/internal.html>. Please read through the information carefully. In order to bring the PRF IT Grant competition in line with the PRF's fiscal year budget, for 2006 only, the OVPR will hold two PRF IT competitions, the first, for bridging purposes, is being announced now to cover travel from January through June 2006; the second, a full year competition, will be announced in the Spring of 2006 to cover travel from July 2006 through June 2007. Further details on the CoS application process will be available soon and announced in this newsletter.

TRAVEL GRANT RECEIVED

Piotr Przybylski received a \$300 Travel Grant from PGSG (Purdue Graduate Student Government), which he will use for the AGU Conference this December in San Francisco. Piotr will be presenting a poster with the topic of *Plate Coupling in the Northeastern Caribbean*.

DR. HAASE'S EAS 535 CLASS

The record for tracking the highest pilot balloon in the EAS 535 Atmospheric Observations and Measurements Class was broken this year by the MAWS team (Ben Cotton, Ryan Horine, and Darrel Kingfield) who tracked a balloon for 12 minutes before it disappeared into a cloud bank. At an ascent rate of approximately 200 m/minute, this corresponds to a height of approximately 2400 meters. The previous record was 7 minutes 30 seconds set in 2003. The competition was fierce this year, with a tie between the TM02 team (Tom Coomes and David Heckard) and the TM04 team (Lexi Crawford, Dana Grabowski, and Kim Klockow) at 9 minutes and 30 seconds. The good sports award goes to the TM03 team (Kyle Mumford, John Schade, and Paige Sweeney) achieving 3 minutes and 30 seconds. The winning team used a white balloon with wind conditions of approximately 4.5 m/sec out of the north and broken clouds. All teams showed exceptional perseverance in the extremely chilly wind conditions.

CHANGE TO THESIS TITLE PAGE

At its meeting on September 15, 2005, the Graduate Council approved a recommendation from the Theses and Publication Committee to modify the title page in theses and dissertations to include the addition of the city of the campus at which the student's degree was awarded (i.e., Fort Wayne, Hammond, Indianapolis, West Lafayette, or Westville). This change is effective for theses and dissertations submitted during the Spring 2006 semester. Theses submitted this semester will be accepted either with or without the city included on the title page.

HOMELAND SECURITY ESSAY CONTEST

The Purdue Homeland Security Institute is pleased to announce the second annual Homeland Security Essay Contest. This contest is intended to stimulate new and innovative thinking about homeland security topics, and involve our students in contributing new ideas to this area of study. Undergraduate and graduate students at Purdue are invited to participate by submitting original essays on selected topics relating to homeland security issues. Cash prizes for the top essays will be awarded, with \$1000 for 1st place, \$500 for 2nd place, and \$250 for 3rd place. Essays are due December 9, 2005. Please inform students in your classes of this opportunity. Additional information about the essay questions and contest entry requirements are located at: <http://purduehomelandsecurity.org/>, or by contacting Beth Naylor at phsi@purdue.edu.

DECEMBER 2005 GRADUATION DEADLINES FOR GRADUATE STUDENTS

December 3 – Last day for students to pass the final examination.

December 5 – *Report of the Final Examination* form must be received by the Graduate School.

December 9 – Thesis deposited.

Note: The *Request for Appointment of Examining Committee* form must be turned into Graduate School two weeks prior to your defense date.

If you have any questions, see Kathy Kincade.

DURI PROGRAM

The Discovery Park Undergraduate Research Internship (DURI) program is designed to involve Purdue undergraduates in the interdisciplinary research environment of Discovery Park. The program provides opportunities for students to work with faculty affiliated with Discovery Park on cutting edge research projects that involve combining two or more disciplinary strengths (such as Nanoscience and Bioscience or perhaps Information Technology, Business, and Communications). Students may apply on-line at: <http://fred.enterprise.purdue.edu/learningcenter/duri/index.jsp>. Faculty may submit new student projects at the beginning of 2006. Details will be posted on the DURI web page. Students may apply for projects through Monday, November 14 at 5 p.m.

A NOTE FROM OUR ACADEMIC COUNSELOR

Academic Success Workshop

November 9 in STEW 313 at 4:30-5:30 p.m. Topic: Unlocking Your Memory Bank.

College of Science Alumna

Seena Stein, B.S. (Biological Sciences, Purdue), MBA (Rutgers), will present informal remarks on Thursday, November 10 at 4:30 – 5:30 p.m. in MATH 942. Light refreshments will be available. Ms. Stein is currently a successful business woman in commercial real estate in New York and New Jersey. Her informal remarks will include the following topics: Aptitude and roles of entrepreneurs, risk taking, structuring organizations to foster entrepreneurship, project management, team building, and balancing work-life issues. She will conclude her remarks with a Q & A period. More information is available about Ms. Stein at <http://www.science.purdue.edu/enewsletter/March2005/SeenaSteinProfile.htm>.

MentorNet

MentorNet's One-on-One Mentoring Program pairs engineering and science undergraduates, and graduate students, post-docs, and untenured faculty as protégés with female or male professionals from all sectors as mentors for one-on-one, email-based mentoring (e-mentoring) relationships. The program has proven effective by providing "real world" information, encouragement, advice, and access to networks that are otherwise often unavailable to women in the male dominated fields of engineering and science. This is why over 90% of participants would recommend MentorNet's e-mentoring programs to a friend or colleague. For more information, please go to www.MentorNet.net. (Sign up by November 15 to be eligible for a free T-shirt!)

How can you find a mentor?

- 1) Join the MentorNet Community at <http://www.mentornet.net/join>.
- 2) Sign into the Community and follow the One-on-One Mentoring Programs links to create a protégé profile.

MentorNet's sponsors include: Alcoa Foundation, Argonne National Laboratory, AT&T Foundation, Bechtel Foundation, Cisco Systems, GE Global Research, Guidant Corporation, IBM Corporation, Intel Foundation, Knight Ridder, Lawrence

Livermore National Laboratory, Lockheed Martin Space Systems, Los Alamos National Laboratory, Marine Technology Society, Naval Research Laboratory, S. D. Bechtel, Jr. Foundation, Sandia National Laboratories, SAP, Schlumberger, Society of Women Engineers, and Symantec Corporation.

What's Happening in April?

The Science Undergraduate Research and Poster Symposium will be Tuesday, April 11, 2006, which is 5 months from now. Updates will be provided as we get closer, but for those who like to plan ahead, circle the date.

Nancy

HAPPY BIRTHDAY!!!

Tim Filley – November 10

Jerry Krockover – November 12

Ken Ridgway – November 12



ABOUT THIS NEWSLETTER:

This weekly newsletter will be the place to look to keep up with departmental happenings, announcements (seminars, student group events, scholarship and award deadlines, departmental committees), job and grant opportunities, and anything else you need to know about the department. It should cut down on the glut of email and other forms of separate announcements – **if it is in the newsletter, we assume you know about it** and no other reminders are needed. Past issues will be available on our department web site (www.purdue.edu/eas/). 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 newsletter.

