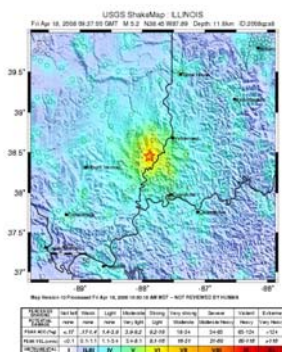
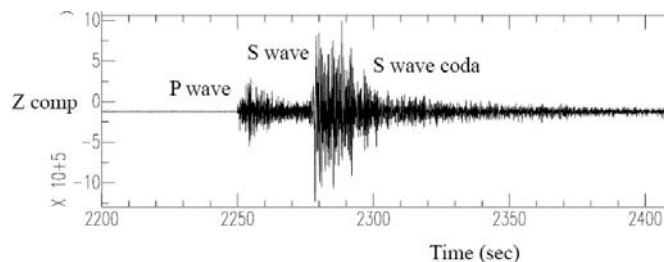


April 21, 2008

THE HEAD'S PERSPECTIVE

An Interesting Day for Midwest Earthquakes

I'm sure that all of you who were in town felt or heard about the earthquakes on Friday, April 18. The first event, which was felt throughout the Midwest region, had a magnitude of 5.2, occurred at about 5:37 a.m. local time and was centered in the Wabash Valley fault zone in southeastern Illinois. Several small aftershocks followed this event. At about 11:14 a.m., a magnitude 4.6 aftershock occurred in the same epicentral area. Most people in the Civil Engineering building, and I'm sure in other buildings on campus, felt a jolt and a little swaying of the building. The earthquakes were well recorded on seismographs in the area, including the Purdue digital seismograph operated by Prof. Nowack (see vertical component seismogram below). A USGS shake map (see map below or access through <http://earthquake.usgs.gov>) displays the expected intensity (degree of ground shaking) for the M5.2 event. Earthquakes of magnitude 5+ are fairly rare in the Midwest (average recurrence interval is about 10-20 years) but obviously do occur. The largest earthquakes on record in the Midwest were the 1811-1812 New Madrid earthquakes of magnitude 7.0 to 7.5.



UPCOMING MEETINGS

Monday, April 21

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

Tuesday, April 22

- Alumni & Corporate Relations Committee, CIVL 2201 (9 a.m.)
- CoS Faculty Meeting, LWSN 1142 (4 p.m.)

Friday, April 25

- Honors Committee, CIVL 3223 (11:30 a.m.)

SEMINAR ANNOUNCEMENTS

Thursday, April 24, at 2:30 p.m. in PHYS 203:
"Inside the Terrestrial Planets." Maria Zuber, Massachusetts Institute of Technology [College of Science Centennial Distinguished Lecture Series]

Refreshments at 2:15 p.m. in PHYS 203

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

PROMOTIONS

The following EAS faculty promotions were approved by the Purdue University Board of Trustees on Friday, April 11, 2008. The promotions will become effective with the beginning of the 2008-09 academic year.

Noah Diffenbaugh promoted to Associate Professor with tenure

Andrew Freed promoted to Associate Professor with tenure

Darryl Granger promoted to Full Professor

Congratulations to Noah, Andy and Darryl!

HONORS/AWARDS

James Ogg received from the Geological Society of Australia (Canberra branch) an award for "best talk in 2007" on his April '07 presentation about Russian oil basins and petropolitics ("From Russia with Love -- of Money and Power").

BUSINESS OFFICE ANNOUNCEMENTS

Summer Calendars

Summer Calendars for Faculty, Post-Docs, and Grads are due on **Monday, April 28th, 2008**. Please see Amber Everest if you have questions or need additional copies of the summer calendars.

Summer Travel

If you are traveling over the summer on federal funds, your salary must be paid from the same funds you are charging travel expenses to (i.e., travel expenses can not be paid on a NASA grant when salary is being paid from an NSF grant).

If you are traveling for more than ten consecutive days in pay status, a Form 33F must be completed indicating the purpose for your leave from campus. If you are being paid from multiple sources while traveling for more than ten days, the purpose of the leave must CLEARLY identify the benefit of this travel to each funding source.

A Form 17 must be submitted and approved in advance of the planned travel and is required **before** airfare and other travel arrangements can be prepaid on the departmental credit card.

May or June Proposals Deadlines (EAS or DP)

As we are quickly approaching summer, we would appreciate your help in planning for proposal submissions. If you are considering or will be submitting a proposal for a May or June sponsor deadline, please send an email to eambo@purdue.edu at your earliest convenience. If the proposal will be processed through a Discovery Park center, please denote that in the email as we will still need to track EAS Department Head/Associate Head availability for approvals. Thank you for your assistance with this planning process.

ISOSCAPES 2008

From April 7 - 11 Gabe Bowen was in Santa Barbara organizing a meeting of approximately 130 researchers who are using "isoscapes", quantitative representations of environmental isotope variation in space and/or time, in their work. One of the primary goals of the meeting was to attract workers in a wide range of scientific disciplines for whom isoscapes represented a common, but as yet unacknowledged, language. In this respect the meeting was a great success, and lead to concrete plans for new collaborations among atmospheric dynamicists and ecologists, archaeologists and geochemists, and hydrologists and forensic scientists. Among the

scientific highlights were lectures from 23 invited speakers, a poster session featuring approximately 80 contributions, short tutorials on GIS and geostatistics delivered by leading UCSB faculty in these areas. A number of tangible meeting products are planned for the next 12-18 months, including a feature article being developed for *Eos*, a proceedings volume to appear in the *Journal of Geochemical Exploration*, and a book synthesizing the field which will be published by Springer. For more information on the meeting and scientific program, visit <http://isoscapes2008.org>.

INAUGURAL DELEGATE

Dayton G. Vincent, class of 1958, was the University of Rochester's delegate at the inauguration of Dr. France A. Córdova as the eleventh president of Purdue University. Dayton is professor emeritus in the Department of Earth and Atmospheric Sciences at Purdue. The inauguration ceremony took place on Friday, April 11, 2008 at the university's main campus in West Lafayette, Indiana with about 2000 people in attendance. The ceremony was highlighted by several events on April 10-11. These included: The Convocation, whose theme was "The Global University"; a dinner for the delegates; a faculty Symposium on "Learning, Discovery, and Engagement"; the Inauguration ceremony; and the formal Inauguration Gala Ball. Approximately 100 delegates represented universities and colleges across the United States. Dayton was extremely proud to represent the University of Rochester and he thanks all of those who were responsible for his selection. His colorful yellow and blue regalia, consisting of gown, hood and cap, was very noticeable in the procession to the Inauguration ceremony.

During his four years at the University of Rochester, Dayton played varsity soccer and basketball, was an officer in his fraternity (Theta Delta Chi) and was in the Air Force ROTC program where he was the cadet commander his senior year. Currently, he is a member of the Attendance Committee for the Class of 1958 50th reunion to be held October 16-19, 2008. He is eagerly looking forward to seeing his classmates on that occasion. Remember, "We're better than good, we're better than great, we are the class of 58; we're better than good, we're better than great, U of R, U of R '58." Meliora!!

EAS ANNUAL AWARDS PROGRAM

Industry-Supported Awards

Chesapeake Graduate Scholarship

Established by Chesapeake Energy Corporation. Awarded to a graduate student who shows outstanding achievement in scholarly, research and/or service.

Presenter: Professor Ken Ridgway

Recipient: John Witmer

Mobil Oil Geology Graduate Award

Awarded to graduate students who wish to pursue a career in the oil industry

Presenter: Professor Ken Ridgway

Recipients: Emily Finzel and Nicholas Fischietto

Chevron Graduate Student Support

Awarded to a graduate student who wishes to pursue a career in an energy-related industry.

Presenter: Professor Ken Ridgway

Recipient: Nicholas Fischietto

Friends of EAS Awards

Linda Horn Memorial Scholarship

Funded by colleagues, friends, and relatives in the memory of EAS geology graduate student, Linda Horn. Presented to help cover costs of field or laboratory work associated with research in Geomorphology, Quaternary Geology or Field Geology.

Presenter: Professor Brenda Beitler Bowen

Recipients: Julianne Bell and Nicholas Fischietto

Henry Silver Scholarships

Established in honor of Henry Silver, a 1934 Purdue Alumnus. Presented to one graduate and one undergraduate student in environmental geosciences including environmental aspects of Atmospheric Science, Hydrogeology, and Engineering Geology.

Presenter: Professor Jon Harbor

Recipients: Angel Torres and Jace Bauer

Terry R. West Scholarship

Established in recognition of Dr. West's 40 years of teaching geology at Purdue University. Presented to students pursuing a degree in the applied geological sciences, involving engineering/environmental geology, hydrogeology, or geophysics.

Presenter: Professor Terry West

Recipients: Cristina Carbajo and Nicholas Farny

William J. Hinze Graduate Award in Exploration Geophysics

Established in recognition of Dr. Hinze's 75th Birthday and for his contributions as a professor in EAS for 25 years. Presented to students studying exploration geophysics including the investigation or application of geophysical techniques that are used to determine Earth structure and properties.

Presenter: Professor William Hinze

Recipients: Patrick Brennan and Shen Wang

Wilton Melhorn Undergraduate Scholars Award

This award was established this year in honor of Wilton Melhorn, a former EAS faculty member and Department Head. This award goes to undergraduate students in EAS who excel in the classroom.

Presenter: Professor Jeff Trapp

Recipients: Bradley Hegyi, Alex Huang, and Jesse Nusbaumer

Cedric J. Newby Award

Established in honor of Cedric J. Newby, a 1923 graduate of Civil Engineering who worked as a Plane-table Engineer and was Head of the Humble Oil Exploration Section at Humble Oil and Refining Company in Houston. Presented to students pursuing a degree in solid-earth geosciences leading to professional employment as a geophysicist.

Presenter: Professor Terry West

Recipients: Patrick Brennan, Christina Carbajo, Emily Finzel, Nicholas Fischietto, John Witmer, Christie Lindemann, Piotr Przybylski, Linda Sylvester, and Kimberly Peters

Field Geology Awards

Michael C. Gardner Memorial Award

Funded by relatives and friends in the oil industry in memory of EAS geology graduate student Michael Gardner. Presented to a graduate student whose research is field-oriented in the areas of structure/tectonic and stratigraphy/sedimentation.

Presenter: Professor James Ogg

Recipients: Patrick Brennan, Emily Finzel, and Piotr Przybylski

Ned Smith Memorial Field Camp Award

Presented to a student who is attending a field camp in earth sciences and has demonstrated academic proficiency in their field of study.

Presenter: Professor Gerald Krockover

Recipient: Kyle Bergman

Donald Levandowski Memorial Scholarship in Field Geology & Remote Sensing

Funded by friends and relatives in the memory of Donald Levandowski, former EAS faculty member and Department Head. Presented to a student who is pursuing research in areas of surface mapping, remote sensing, field mapping, or applied geology.

Presenter: Professor William Zinsmeister

Recipients: Nicholas Fischietto and Christie Lindemann

Graduate Student EXPO Awards

Presenter: Professor Mike Baldwin

Outstanding Presentations

Thomas Dautermann: "Ionospheric detection and energy estimation of the 2003 explosion of the Soufriere Hills Volcano, Montserrat"

Jennifer Bewley: "The effects of entrainment and mixing on droplet populations in trade wind cumuli"

Outstanding Posters

Yoon Seok Choi: "Liquefaction susceptibility mapping in Evansville, Indiana"

Emily Finzel: "Miocene and Pliocene sedimentary footprint of flatslab subduction of the Yakutat Terrane in Southern Alaska"

EAS Student Awards

Outstanding Undergraduate Student Recognitions

Awarded to exceptional EAS students who have demonstrated outstanding achievement in scholarship, research, teaching and/or service.

Presenter: Professor Sonia Lasher-Trapp

Outstanding Freshman

Recipient: Jonathan Foreman

Outstanding Sophomore

Recipient: Dustin Pittman

Outstanding Junior

Recipient: Amanda Sheffield

Outstanding Senior in Atmospheric Sciences

Recipient: Sara Weisser

Outstanding Senior in Solid Earth

Recipient: Richard Fisher

Senior Student Recognition

Recognition of all graduating seniors in the EAS Department

Presenters: Professor William Zinsmeister and Nancy Stewart, Undergraduate Counselor

Recipients: Michael Beall, Daniel Bowman, Jeanette Brass, Nicholas Chisler, Benjamin Evans, Richard Fisher, Megan Hoesly, Bretton McIlrath, Courtney Obergfell, Lee Ann Okuly, Kimberly Peters, Kristen Schuler, Kyle Spangle, Abhishaan Vipat, David Wade, Sara Weisser, and Patrick Wright

Outstanding Graduate Student

Awarded to a student demonstrating outstanding scholarship and research achievement as well as excellence in teaching and/or service.

Presenter: Professor Harshvardhan

Recipients: Ryan Sriver



*2008 Award Recipients
(Click image for larger view)*

A NOTE FROM OUR ACADEMIC COUNSELOR

Last Regional Campus Visit

Fort Wayne regional campus summer registration in the Schleman Hall lobby on these days and times:

Tuesday, **April 22** from 11 a.m. - 5 p.m.

Wednesday, **April 23** from 9 a.m. - 2 p.m.

College of Science Study Abroad Callout

The callout is Thursday, **April 24**, from 4 - 5:30 p.m. in LWSN Commons. If you want to study abroad, this should get you started. The flyer for the College of Science Study Abroad Callout is at the end of this Newsletter. The next item is also about international experience.

Service Learning Experiences in South Africa and Swaziland

Thursday, **April 24** from 4 - 6 p.m. in STEW 306, Prince Cedze Dlamini, grandson of Nelson Mandela, is visiting campus to promote faculty and students engaging in Service Learning experiences in South Africa and Swaziland. Prince Cedze has founded a non-profit organization to promote and support exchanges between our two countries and is focusing on several institutes of higher learning in Indiana, including Purdue.

Women in Science Mentor

WISP has the goal of retaining more women in the sciences by offering support, mentoring, networking and specific strategies for success. The heart of the program revolves around providing upper-division students in science who can assist first-year students in succeeding in their major.

Applying is simple. You just need to go to the following website: http://www.science.purdue.edu/WISP/Undergrad/m_app.asp and fill out the application on-line. The entire process will take you about 10 minutes.

Mentors will have fun while meeting approximately 150 other women in the College of Science. They offer monthly dinner programs that have speakers on topics along with a free dinner. Being a WISP mentor is a great resume builder and helping another woman in science is priceless!

If you are interested, click on the website today. **The application deadline is Monday, April 28th.**

The Woodrow Wilson Indiana Teaching Fellowship

This grant will provide recent college graduates and career changers in STEM fields with a \$30,000 stipend during a master's degree program at one of the four Indiana partner universities, including Purdue. The master's program will prepare Fellows in urban and rural high schools that function well but serve primarily disadvantaged students. In exchange, Fellows commit to teach math or **science** for three years in an Indiana secondary school. Upon completing the master's degree and teaching

certification, Fellows will be placed in teaching jobs in participating districts, where they will receive continued support and mentoring. More details about the program are available at www.woodrow.org/indiana.

To be competitive candidates (May 08 - May 09 graduates) should meet the following standards:

- They have completed or are completing a math, **science**, or engineering major as undergraduates.
- They will graduate in the top ten percent of their class.
- They demonstrate a commitment to the program and its goals.
- They are willing to reside in Indiana while completing their master's degree and three-year teaching commitment.

The Fellowship application will be available online this summer, with a submission deadline of **December 1, 2008**. If interested, contact nstewart@purdue.edu.



Earth Day is April 22.

Nancy

HAPPY BIRTHDAY!!!

Dayton Vincent – April 23



