

November 17, 2008

THE HEAD'S PERSPECTIVE

Reflections on the Society of Exploration Geophysicists Annual Meeting

I just returned from the Society of Exploration Geophysicists (SEG) annual meeting in Las Vegas, Nevada. It was a very inspiring meeting with much enthusiasm evident from advanced technologies for geophysical exploration, including new methods and technology for imaging and extracting oil and natural gas, and healthy career and employment environment. The SEG Foundation also hosted a lunch event at which the results of a very successful three-year campaign were announced. The Foundation raised over \$17 million dollars, most of it for endowments and much of the funds targeted to student support. The SEG scholarship and student travel support to the annual meeting is at its highest level ever. Student membership in the SEG has grown from 750 in 1995 to over 7,000 in 2007. Included in the new campaign was a donation from Geophysical Pursuit as the Founding Donor of a \$250,000 endowment to support the SAGE (<http://www.sage.lanl.gov/>) program that I have been involved with for over 25 years. The endowment is projected to grow to over one million dollars.



Scott Urquhart (third from left, President, Zonge Engineering and Research Organization) and students collecting electromagnetic data during SAGE field work.



Vibroseis truck provided by ION Geophysical for seismic reflection and refraction data collection at SAGE.

Also of interest, the recent SEG publication, *The Leading Edge* (October, 2008) includes a series of papers on manpower and education issues, including geophysical training and geosciences undergraduate curricula. Although the focus of these papers is largely geophysical, several of the papers include a much broader geosciences perspective.

UPCOMING MEETINGS

Tuesday, November 18

- Strategic Plan Committee, CIVL 2201 (10 a.m.)

Friday, November 21

- ATMS Tea, CIVL 2201 (2:30 p.m.)

Monday, November 24

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

EAS SEMINARS

Tuesday, November 18, at 2:30 p.m. in CIVL 2201: "Infrastructure Opportunities and Challenges for the Earth Sciences." David Lambert, National Science Foundation

Refreshments at 2 p.m. in CIVL 2201

(EAS SEMINARS continued on next page)

Thursday, November 20, at 3:30 p.m. in CIVL 1252: "Global CH₄ Cycling and Its Role in Climate Change." Qianlai Zhuang, Purdue University

Refreshments at 3 p.m. in CIVL 2201

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

OUR RECENT PUBLICATIONS

Huizenga, Cornie, **Charlotte Kendra Castillo**, May Ajero and DeeJay Cromwell Sanqui, 2008: The Co-Benefits Approach: An Integrated Policy Response to Climate Change and Development in Asia. *Climate Change Negotiations: Can Asia Change the Game?*, Christine Loh, Andrew Stevenson and Simon Tay, Eds. Hong Kong Civic Exchange and Singapore Institute of International Affairs, 59-73.

George R. Jiracek, San Diego State University; W. Scott Baldrige and Aviva J. Sussman, Los Alamos National Laboratory; Shawn Biehler, University of California, Riverside; **Lawrence W. Braile**, Purdue University; John F. Ferguson, University of Texas Dallas; Bernard E. Gilpin, Golden West College; Darcy K. McPhee, U. S. Geological Survey; Louise Pellerin, Green Engineering, Anchorage; "SAGE celebrates 25 years of learning geophysics by doing geophysics", *The Leading Edge*, October, 2008, 1340-1344.

Wheatley, D.M., and **R.J. Trapp**, 2008: The Effect of Mesoscale Heterogeneity on the Genesis and Structure of Mesovortices within Quasi-Linear Convective Systems. *Monthly Weather Review*, **136**, 4220-4241.

RECENT PRESENTATIONS

Larry Braile made a presentation, "When the Ground Shakes – Central United States Earthquakes" at the *Wednesday in the Wild* program on November 12, 2008 at the Lilly Nature Center in West Lafayette.

Laura Pyrak-Nolte's students gave the following presentations at the Society of Exploration Geophysicists Annual Meeting 2008 in Las Vegas, Nevada, November 9-14, 2008:

Wave propagation across partially infilled fracture, Angel Acosta-Colon and Laura J. Pyrak-Nolte

The effect of fabric-controlled layering on compressional and shear wave propagation in carbonate rock, Weiwei Li, Christopher Petrovitch, and Laura J. Pyrak-Nolte, Enru Liu and Shiyu Xu

\$1,500 ENVIRONMENTAL TRAVEL GRANTS **Frederick N. Andrews and Russell O. Blosser** **Environmental Travel Grant**

Deadline Extended: November 25, 2008

The Andrews Environmental Grant was established in honor of Dr. Frederick N. Andrews to support research focused on improving the world environment. The Blosser Environmental Grant was established in honor of Russell O. Blosser to support graduate students majoring in an area of environmental sciences.

A complete grant announcement can be found at our website, along with the submission guidelines.

Go to <http://www.gradschool.purdue.edu/funding/>, and then click on Travel Grants.

A NOTE FROM OUR ACADEMIC COUNSELOR **International Student Volunteers**

International Student Volunteers (ISV) has an opportunity coming up for you this summer to participate in ISV's summer programs in Australia, New Zealand, Costa Rica (Central America), Dominican Republic (Caribbean), Ecuador (South America), Thailand (South East Asia), Eastern Europe and South Africa. The ISV information meeting is on Tuesday, **November 18th**, from 7:00-8 p.m. in Lilly G-432. Check out the ISV website: www.isvonline.org for more information. If you are unable to attend the meeting or would like more information, contact your student representative, Lauren Erickson, at leericks@purdue.edu or visit the bulletin board outside of Lilly 1-123.

Summer 2009 Internship in Chicago

Information Session in STEW 218A/B at 5 p.m. on Wednesday, **November 19**. If interested, bring your resume for a possible interview on November 20. This is not earth science but thought you might want to be aware of this opportunity open to all majors.

Job Description: Summer 2009 Internship – All Areas - Req#: 08-163 – Chicago

Blue Cross and Blue Shield Association is a leading supplier of business strategy, technical support, healthcare services and consulting expertise for our key business partners - the independent Blue Cross and Blue Shield companies. We act as a Brand manager by setting quality control standards for the companies that use the Blue Cross and Blue Shield Brands and serve as a trade association that represents the Blue Plans. We also are responsible for providing the Blue Plans with national leadership

among industry colleagues, government officials, media and the public.

We are recruiting for **all college levels** for our Summer Internship program starting in June through September, 2009 (dates are flexible). We are accepting resumes from candidates that are interested in learning and enhancing their corporate experience particularly in the Healthcare insurance industry. We have openings in the Audit and Compliance, Finance, Strategic Consulting, Analytics, Legal, Research, Statistics, Information Technology, Public Policy, Government Relations, and Health Care Consulting areas. These are full-time positions for the summer only.

Qualifications: Our interns are placed in specific job roles that enable them to work with team oriented tasks and projects. We offer training in team dynamics, corporate culture awareness, interaction

with senior management, mentor partnerships, and real world corporate office experience. At the end of the program is a group presentation to management that showcases your projects and accomplishments. To be considered for the internship program, the following qualifications are required:

- Proficiency with computer software to include MS Word, Excel, PowerPoint or Access.
- Currently enrolled in college pursuing a degree.
- Ability to work with teams and various levels of management.
- Excellent written and communication skills.

Nancy

ABOUT THIS NEWSLETTER:

This weekly newsletter is 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 departmental 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.

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>.





The 2008 Physiological Sensing Symposium

Sponsors: Birck Nanotechnology Center, the Bindley Bioscience Center, and the Physiological Sensing Facility

"Multiscale Integration of Nanotechnology, BioMEMS and Biology"

with Raoul Kopelman, Ph.D, University of Michigan, as the keynote speaker

Thursday, November 20, 2008

8:30am – 3:30pm

Burton D. Morgan Center for Entrepreneurship -- Room 121

**Registration Requested: <http://www.purdue.edu/dp/bioscience/BBCEvent.php>
or Call 494-2276**

Today the advancements in science and engineering are now so profound in pace and impact, that they are propelling the emergence of entirely new fields. These new fields are highly interdisciplinary, in terms of the broad integration across all realms of basic science and applications driven engineering. Examples of these new disciplines include the rapidly evolving fields of bioMEMS and nanotechnology. BioMEMS are based on microelectronics, microfabrication and micromachining technologies as an enabling technology for biological systems. Nanotechnology involves engineering nanometer-sized features, and for biological applications there is potential in terms of cell-tissue engineering, and more broadly as pharmaceuticals. Together bioMEMS and nanotechnology offer systems to integrate and interface biological systems across different scalar domains, and are commonly cited as new platforms for advanced new medical diagnostics and therapies. We seek to explore the greater promise of these emerging new approaches as new technologies to study and understand cell biology and bionanosciences. The potential for dramatically expanding our scientific foundations and functionally increasing throughput in terms of research productivity are worth considering. This symposium will introduce various topics related to the integration of nanotechnology, and bioMEMS with biological systems as new platforms for scientific discovery.

PURDUE UNIVERSITY

Discovery Park



Present your research at the 2008 Physiological Sensing Symposium!

"Multiscale Integration of Nanotechnology, BioMEMS and Biology"

with Raoul Kopelman, Ph.D from the University of Michigan as the keynote speaker

**Thursday, November 20, 2008
8:30 a.m. - 3:30 p.m.**

Interested? Send your name, dept., poster title and abstract to Luanne Ludwig at: lml@purdue.edu, by Friday, November 14th.

PURDUE UNIVERSITY

Discovery Park

Bindley Bioscience Center