



What's Up?

The EAS Weekly News

August 7, 2006

THE HEAD'S PERSPECTIVE

Welcome back to campus! I know that many of you have been gone for at least part of the summer. This is my first "Head's Perspective" entry since being named EAS Department Head. Firstly, I'd like to thank Professor Jon Harbor for his service as EAS Department Head and wish him well in his new position as Dean of the College of Liberal Arts and Sciences at the University of Colorado at Denver and Health Sciences Center. Much of the growth and success of Purdue EAS in the past few years has been a result of Jon's leadership. Although Jon has officially started in his new position in Colorado, he will be returning to the Purdue campus regularly during the next year or so to work with the students that he advises and to complete several projects. We look forward to seeing Jon in the department and to continuing collaborations!

Recently, my wife Sheryl and I were lucky enough to spend some time in Hawaii. In addition to "R and R" time on the beach and around the pool (and on the computer with e-mail), we were able to visit the active volcano on the island of Hawaii and view interesting and beautiful volcanic landforms, see lava flowing into the ocean, and climb to the top of a small shield volcano (Mauna Ulu) and peer down into the vertical-sided crater vent that is about 100 meters deep. It's a great place to experience Earth science and enjoy a vacation!

During the next few weeks, I plan to meet with EAS students, staff and faculty individually and in groups to learn more about all the various aspects of the department and to request input on recommendations for the future of the department. I have a number of ideas for new or enhanced initiatives that I think will benefit EAS. You will be hearing about these ideas soon. However, one of my most important goals is to be a good listener, so I welcome your suggestions and comments. I look forward to the opportunity to enthusiastically lead and represent the Department of Earth and Atmospheric Sciences.

UPCOMING MEETINGS

Tuesday, August 8

- EAS Leadership Team, CIVL 2169A (11:00 a.m.)

Friday, August 11

- Development Committee Meeting, CIVL 2173 (8:30 a.m.)
- CLEW Planning Meeting, CIVL 4251 (10:30 a.m.)

Wednesday, August 16

- EAS Faculty Retreat, Wright Forestry Center (7:30 a.m.)

PH.D. DEFENSE

Thursday, August 10, at 1 p.m. in CIVL 3201:

"Experimental Confirmation of a $\delta^{37}\text{Cl}$ Minimum in a Hyperfiltration System." Greg Chmiel, EAS Graduate Student, Purdue University

OUR RECENT PUBLICATIONS

Fox-Dobbs, K., Stidham, T. A., Bowen, G. J., Emslie, S. D., and Koch, P. L., 2006: Dietary controls on extinction versus survival among avian megafauna in the late Pleistocene. *Geology*, **34**, 685-688.

Lim, K., B. Engel, S. Muthukrishnan, and J. Harbor, 2006: Effects of initial abstraction and urbanization on estimated runoff. *Journal of the American Waters Resources Association*, **42(3)**, 629-643.

Nowack, R. L. and C. Li, 2006: Application of autoregressive extrapolation to cross-borehole tomography, *Studia Geophysica et Geodaetica*, **50**, 337-348.

Park, M. and J. H. Cushman, 2006: On upscaling operator-stable Lévy motions in fractal porous media. *Journal of Computational Physics*, **217(1)**, 159-165.

West, J. B., G. J. Bowen, T. E. Cerling, and J. R. Ehleringer, 2006: Stable isotopes as one of nature's ecological recorders. *Trends in Ecology & Evolution*, **21**, 408-414.

RECENT PRESENTATIONS

Qianlai Zhuang gave an invited presentation entitled, "Net Methane Emissions in Northern High Latitudes" at the Center for Satellite Applications and Research, NOAA, Lanham, Maryland on July 3.

Sonia Lasher-Trapp was Program Chair for the 12th AMS Conference on Cloud Physics, held in Madison, Wisconsin on 9-14 July. She also presented the paper, "Turbulence and Liquid Water Patterns in Simulated Small Cumulus Clouds."

Students presenting papers at this conference included:

Jennifer Bewley, "Can Cloud Droplet Number Increase with Height?"

Colleen Henry, "When Do Giant Aerosol Particles Fail to Make Rain?"

Ashley Shackelford, "The Significance of Giant Aerosol to Supercooled Large Drops in Stratiform Clouds"

Justin Stachnik, "Hailstorm Simulations Using the WRF Model: Microphysical Parameterization Sensitivities and Preliminary Verification"

Kevin Vermeesch, "The Mechanics of Falling Hailstones and Hailswaths"

Invited lecture entitled, "Generalized hydrodynamics, renormalization, fractional equations and the CTRW" by J. H. Cushman, M. Park, N. Kleinfelder and M. Moroni was presented at the 7th World Congress on Computational Mechanics Los Angeles, California, July 16 - 22, 2006.

Prof. R. L. Nowack gave an invited talk at the 2006 Western Pacific Meeting of the American Geophysical Union in Beijing held July 24-27.

Nowack, R. L. and S. Dasgupta (2006) Deconvolution of Teleseismic P-waves using the Autocorrelation of P to SV Scattered Waves, Western Pacific AGU Meeting, Beijing, July 24-27.

NEW PROCEDURE FOR REPORTING STOLEN TECHNOLOGY EQUIPMENT

Due to the recent changes in Social Security and privacy laws, a new step has been added to the procedure for reporting stolen technology equipment. In addition to reporting the incident to the business office, police department, and risk management, ITaP needs to be notified as soon as practical. ITaP has asked that an incident report be submitted. The online incident report can be found at the following location:

<http://www.purdue.edu/securePurdue/incidentReportForm.cfm>

FROM OUR BUSINESS OFFICE

Recent Proposals

Baldwin, Michael E. and Trapp, Robert Jeffrey: Object-oriented Analysis of Characteristics of Precipitating Weather Systems. NOAA – \$262,155

Bowen, Gabriel J., Engel, Bernard A., and Zhao, Lan: Data Integration for Biogeochemistry and Ecology Through Web-based Geospatial Modeling: The Isotope Networks Portal. NSF – \$708,553

Crawford, Melga M., Engel, Bernard A., Mohtar, Rabi H., and Niyogi, Devdutta S.: Using Remotely Sensed Data to Enhance Multiscale Characterization of Surface and Subsurface Hydrological Processes for Water Quality. NASA – \$770,612

Filley, Timothy R.: Effects of Temperate Deciduous Tree Biodiversity on Biogeochemistry of Soil Organic Carbon. Ohio State University/NSF – \$30,306

Freed, Andrew M.: CAREER: Rheology of the Alaskan and Chilean Margins from Combined Postseismic and Postglacial Studies. NSF – \$427,611

Freed, Andrew M., and Calais, Eric: Collaborative Research: Mechanisms of Postseismic Deformation Following the 2002 Denali Fault Earthquake Sequence. NSF – \$333,251

Gurney, Kevin R.: Exploration of the Relationship between Inverse Carbon Fluxes and Climate Variability. NOAA – \$388,115

Harshvardhan: Global Mapping of Water Cloud Drop Concentration in Oceanic Clouds using MODIS: Relationship to Intercontinental Aerosol Transport. NASA – \$396,546

Huber, Matthew S.: CAREER: Integrating Advances in the Dynamics and Paleoclimatology of Greenhouse Climates. NSF – \$599,005

MICROSOFT OFFICE COURSES OFFERED BY ITAP

SIS Course Rosters: Open sessions in mid-August for accessing your course rosters and printing them in various formats. Register for these classes through the ITaP online training portal: <http://www.itap.purdue.edu/training/>.

IMPORTANT DATES

The fall semester will be here before you know it. Make a note of the following important dates on your calendar.

- Monday, August 14 – COE and Departmental Teaching Assistant Orientations, starting at 8:30 a.m., BRNG 2280
- Monday, August 14 – COE and Departmental New Faculty Orientations, starting at 1:30 p.m., BRNG 4180
- Tuesday, August 15 – C&I Faculty/Staff Retreat, starting at 8:30 a.m., Tippecanoe County Extension Office on U.S. 52 near Tippecanoe Mall
- Wednesday, August 16 – Campus Graduate Teaching Assistant Orientation, starting at 8 a.m., Class of 50 lecture hall
- Wednesday, August 16 – Purdue Day at the Indiana State Fair, Indianapolis
- Thursday, August 17 – Campus New Faculty Orientation, starting at 8:30 a.m., PMU West Faculty Lounge
- Friday, August 18 – C&I Welcome Back Picnic, starting at 5 p.m., Happy Hollow Park, West Lafayette
- Sunday, August 20 – New Education Student Orientation, starting at 1:30 p.m.
- Monday, August 21 – Fall Semester Classes begin
- Friday, August 25 – C&I Primary Committee Meeting, 1:30 p.m., BRNG 1284
- Friday, September 8 – COE Faculty Meeting, 1 p.m., STEW 322
- Saturday, September 9 – Family Day Reception, 9 a.m., STEW 214

WORKPLACE VIOLENCE AWARENESS

Training is open to all Purdue University Faculty, Staff and Students. Wednesday, August 9, 1:00-4:30 p.m. Pre-registration is required and class size is limited to the first 35 applicants. For more details, see the flyer on the last page of this newsletter.

ADJUNCT FACULTY POSITION

There is an opening for an Adjunct Faculty position to teach Physical Science classes in Fall 2006 at Ivy Tech State College. Classes begin on August 21st. Those interested can contact Malathi Balachander at 269-5142 or email at mbalachander@ivytech.edu.

Malathi Balachander
Department Chair, Math/Science
Ivy Tech State College
Lafayette, Indiana

TENURE-TRACK FACULTY POSITION IN APPLIED GEOPHYSICS AT THE UNIVERSITY OF KENTUCKY

The Department of Earth and Environmental Sciences at the University of Kentucky invites applications for a tenure-track faculty position at the Assistant Professor level in Applied Geophysics, beginning August 2007. They are seeking candidates interested in interdisciplinary research, and who would interact with their existing programs in near-surface geophysics hydrogeology, tectonics, and energy resources.

Interested applicants should submit (e-mail PDF format and hard copy) curriculum vitae, a brief statement of research and teaching interests, copies of relevant research publications, and contact information for at least three references to:

Dr. Edward W. Woolery
Search Committee Chair
Department of Earth and Environmental Sciences
101 Slone Research Building
University of Kentucky
Lexington, KY 40506-0053
wooler@uky.edu

Closing date for applications is December 15, 2006.

TRIPATHY WINS AWRA AWARD

Congratulations to graduate student Dibyajoti Tripathy, who received an American Water Resources Association student paper award for his presentation of his PhD research. Tripathy presented his paper at the 2006 Spring Specialty Conference on GIS and Water Resources held in Houston, Texas.

A NOTE FROM OUR ACADEMIC COUNSELOR



Congratulations to EAS August Graduates

*Matthew D. Sheridan
Sandra K. Simonis*

Nancy

HAPPY BIRTHDAY!!!

Kevin Gurney – August 9

Lucy Flesch – August 12

Terry West – August 15



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.

