

August 1, 2011

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## FILLEY TRAVELS TO CHINA TO PROMOTE ECOPARTNERSHIP, SUSTAINABILITY

Tim Filley has been awarded a Chinese Academy of Sciences Visiting Professorship for Senior International Scientists, marking the university's first activity under a new Purdue-China EcoPartnership.



Filley will spend the next three months at the [CAS Institute for Applied Ecology](#) in Shenyang, China, promoting scientific and educational collaborations that address issues in the earth sciences. Specifically, the research projects will focus on the human impacts to terrestrial ecosystems and their influence on global change issues related to soil and water use. [Read more...](#)

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## BOWEN TO DIG DEEP INTO WYOMING BASIN FOR GLOBAL WARMING CLUES

Gabe Bowen's group is involved in a multi-institution continental drilling campaign that is going on now through August 8 in Wyoming. Gabe and an incoming grad student joining his group will be on-site in early August. Progress is being updated regularly on a [face book](#) page. Read more in the [news release](#) and [project website](#).

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## GEOLOGISTS INSTALL EQUIPMENT TO RECORD SEISMOGRAPHIC DATA

A research team of 12 people, including Hersh Gilbert, began an initial equipment installation Tuesday on private vineyard property near the Williamson County line off North Lick Creek Road that will provide seismographic data about what's underneath the ground in Southern Illinois and the surrounding region. [Read more...](#) [See video...](#)

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## MOVING ON

Congratulations to Jeremy Stalker, who finished his postdoc with Gabe Bowen's group at the end of July to take a position as Assistant Professor of Marine Science at Jacksonville University.

## FIELD CAMPAIGN

Prof. Lasher-Trapp and graduate student Alexandria Johnson participated in the NSF-sponsored Ice in Clouds Experiment – Tropical (ICE-T) field campaign in St. Croix from 1-31 July. The field campaign's goals were to resolve the long-standing discrepancy between the number of ice nuclei observed in the atmosphere versus the far greater number of ice crystals observed within maritime clouds. For more information see <http://www.eol.ucar.edu/projects/ice-t/>.

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## AVIATION WEATHER TESTBED

From July 18-22, Mike Baldwin and Kim Hoogewind participated in the Aviation Weather Center's first Aviation Weather Testbed Summer Experiment in Kansas City, Missouri. Participants worked in teams to evaluate current weather and produce experimental forecast graphics indicating the potential impact of weather on the airspace, with particular focus on the Chicago – New York – Atlanta region. Researchers from around the country worked with operational forecasters to assess experimental data sets, discussed visualization and improved decision support tools, and worked towards creating strategies for long-term (Day 3-8) traffic planning. For more information, check out the experiment's website: <http://testbed.aviationweather.gov>.

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## OUR RECENT PUBLICATIONS

Buzon M. R., C. A. Conlee, and G. J. Bowen, 2011: Refining oxygen isotope analysis in the Nasca region of Peru: An investigation of water sources and archaeological samples. *International Journal of Osteoarchaeology*, **21**, 446-455. doi:10.1002/oa.1151.

Goldner, A., M. Huber, N. Diffenbaugh, and R. Caballero, 2011: Implications of the permanent El Niño teleconnection "blueprint" for past global and North American hydroclimatology. *Clim. Past*, **7**, 723-743, doi:10.5194/cp-7-723-2011, 2011.

## RECENT PRESENTATIONS

Laura J. Pyrak-Nolte gave an invited talk on "Fractures and the Matrix: Anisotropy and Compliance" at a workshop on Unconventional Gas Resources at the 45th American Rock Mechanics Association (ARMA) Symposium in San Francisco, CA on June 24, 2011.

At the ARMA Symposium, Laura also gave presentations on "Using Fracture Interfaces Waves to Characterize Fractures and Fracture Intersections" co-authored by Bradley Abell and Fan Wu on June 27, 2011, and on "The Effect of Saturation on Shear Wave Anisotropy in a Transversely Isotropic Medium" co-authored by Weiwei Li and Christopher Petrovitch on June 28, 2011.

On July 13, Gabe Bowen gave an invited talk at the 2011 Gordon Conference on Catchment Science in Lewiston, Maine. The title was "Gradients, Boundaries, and Anomalies: Mapping Sources and Transport of Water Using Isoscapes."

On July 20, Professor Baldwin presented a seminar entitled: "Feature-specific analysis and prediction" at the National Weather Service's Aviation Weather Center in Kansas City, Missouri during the 2011 Aviation Weather Testbed Summer Experiment.

From July 21-24 Gabe Bowen participated as an instructor in the 2011 Urbino Summer School on Paleoclimatology. This three-week program brings together approximately 60 international students for intensive cohort-based training on paleoclimate theory, methods, and controversies. Gabe delivered two topical lectures and gave a research talk in the annual "Cioppino" conference, a venue in which instructors present their latest work-in-progress.

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## FROM OUR EAS LIBRARY

The last two months have been busy as I've taken over the EAS library. It has been a time of change, mostly made with the EAS faculty and students in mind. The first change came to the EAS library website, specifically the quick references and subject guide pages. These have been recreated using the libguides tool, and are organized by topic. You can start the tour of the new pages here: <http://guides.lib.purdue.edu/EASquicklinks>. The library space is also undergoing some changes. The print journals that are also held online in fulltext are being moved to a repository. The space that they free up will be filled by monographs, allowing book shelves to be torn down, and making room for group collaboration space in the library.

I look forward to meeting and working with the department faculty and graduate students. A high priority for August and September is for me to meet all of the EAS faculty members. At the same time, I will also be talking about potential instruction collaborations for incorporating information literacy skills in the curriculum. If you have a class that you feel the students have not been demonstrating adequate abilities in finding and using information, please contact me.

As a reminder, if you are having difficulties placing interlibrary loans or finding specific resources that you need for your work, please come see us in the EAS library. We will be happy to assist you in locating the information that you need.

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## ITAP TAKING FACULTY ORDERS FOR CAPACITY IN A NEW CLUSTER SUPERCOMPUTER

Faculty researchers can now place orders for capacity in a new community cluster supercomputer ITaP plans to have operational in September. The Hansen cluster will feature Dell computer nodes with four 12-core AMD Opteron 6176 processors (48 cores per node) and either 96 or 192 gigabytes of memory. A large-memory option with 512 gigabytes also is available. To see available hardware and to order visit: <http://www.rcac.purdue.edu/order/>.

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## GM AIMS TRAINING WORKSHOPS

This workshop is to inform faculty how to use the new system. This new tool will be a valuable asset for managing your grant funds. Benefits of the tools include:

- Real-time tracking of grant budgets and expenditures
- Expenditure details such as PO numbers, vendors and item descriptions
- Information on technical reports due and where/how to send them
- Balance trends charts
- Projection tool to estimate future balances

[Read more...](#)

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## ENVIRONMENTAL GEOBIOLOGY FACULTY POSITION AT KANSAS STATE UNIVERSITY

The Department of Geology at Kansas State University invites applications for a full-time tenure-track position in Environmental Geobiology, at the rank of Assistant Professor. [Read more...](#)

**VIRGINIA'S FAREWELL**  
**July 15, 2011**

This is my last day working in the EAS Department. Thank you very much for the wonderful party today, your sentimental stories of appreciation and all the great gifts and cards. I will miss everyone dearly. It has been an honor and pleasure to work with a great group of people my many, many years here at Purdue. The search is now on to find a new job soon, hopefully back on campus. Below is the poem I wrote and, at the last minute, asked Dr. Krockover to read for me (Thank you, Jerry).

Take care my friends, I wish you all health and happiness. *Virginia*

She arrived here in August of '74,  
She learned their names and geology scribbles.  
She started typing ...and didn't stop;  
The most asked question when on 'the clock',  
"Could someone **please** identify this rock?"

*The years go by...*  
A season of softball and hot summer days,  
The news of a new building is on the way.  
Box up your offices and unplug the phones,  
We're moving... *just a few feet*, across the street.

She remembers the students working hard for a degree,  
You taught them well with your PhDs.  
Professors retire and new ones are hired;  
'How can that be ... they are now **younger** than me!'

*The years go by...*  
There's talk, there's fear... the Millennium is near.  
Can we continue without haste,  
to type and save, and copy and paste.

IT IS NOW 2011...  
She has been here three decades, plus seven.  
You may see her wander back through the halls,  
But hopes to retire before the next eleven.

Her memories are many... more happy, than sad.  
Wait for an email from her new office pad.  
Who knows, quite possibly, *just a few feet*... across  
the street.

*We miss you, Virginia!*

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**HAPPY BIRTHDAY!!!**

David Minton – August 5

Lucy Flesch – August 12

Terry West – August 15



After years of hard work and dedication, it's time to take a permanent vacation!

Please join us as we celebrate the retirement of

*Phyllis Ferguson*

with a reception

August 29th, 2011

3:00pm - 4:30pm

(with remarks and gift presentation at 3:30)  
East Faculty Lounge, Purdue Memorial Union

Refreshments will be available.

If you would like to contribute to Phyllis' retirement gift, please send your contribution to Lori Arnold or Tammy Emilson in the College of Science Business Office in MATH on or before August 15.

# ADVANCE Briefing

July 2011



Purdue Center for Faculty Success  
207 S. Martin Jischke Drive  
West Lafayette, IN 47907  
Phone: (765) 494-9407  
advance-cfs@purdue.edu

## Date set for Faculty Search Committee Workshop

The fourth **Faculty Search Committee Workshop** is set for **Tuesday, September 27, 2011**. All faculty who will be participating in a search are encouraged to attend.

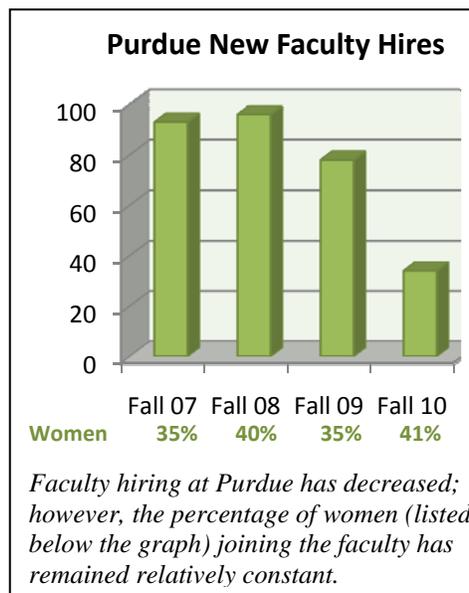
Over 180 faculty have participated in the previous workshops jointly sponsored by ADVANCE-Purdue and the Office of Institutional Equity. Feedback has been positive; 92% of the respondents indicated the workshop provided meaningful strategies for dealing with unconscious assumptions and their influence on the evaluation of candidates and 89% of the respondents agreed that the information received from the workshop would assist them as search committee members.

After attending a workshop, one participant commented *"...I see my role as a search chair more broadly now - I'm not just the one who organizes the meetings and is in charge of logistics but I also set the tone and anticipate/solve any problems"*.

The **Workshop** is scheduled from 8:15 am until Noon in the Anniversary Drawing Room on 09/27/11. More workshop information and recommended readings on unconscious assumptions can be found at [www.purdue.edu/dp/advance/cfs/faculty-hiring.php](http://www.purdue.edu/dp/advance/cfs/faculty-hiring.php).



Faculty engaged in discussion at a Faculty Search Committee Workshop.



### *Whistling Vivaldi: And Other Clues to How Stereotypes Affect Us*

**Claude M. Steele**

Dr. Steele, provost at Columbia University, is a renowned social psychologist. In his newest book he examines how "stereotype threat" impacts the performance of members of certain groups due to their gender, age, race, or class.

Stereotype threat occurs when a member of an underrepresented group is aware of the negative stereotype that is relevant to his/her situation. That individual ends up performing badly due to the anxiety about confirming the stereotype. An example of stereotype threat is a woman performing poorly on a high stakes math test due to her awareness that women aren't expected to do well in math.

*Whistling Vivaldi* is engaging to read as it goes through Steele's personal experiences as a racial minority at The Ohio State University, University of Michigan and Stanford University. The book incorporates groundbreaking research into various manifestations of stereotype threat. Steele includes practical interventions that have proven to make a difference in higher education.

ADVANCE-Purdue (NSF #0811194) is an institutional transformation project funded by the National Science Foundation that targets the recruitment, retention and advancement of female STEM faculty. At the heart of ADVANCE-Purdue is the Purdue Center for Faculty Success, a campus center located in Discovery Park that develops programming and implements activities and events for all Purdue faculty members.