



IPER NEWS - AUTUMN 2008

HAPPY BIRTHDAY, IPER!

IPER turned 7 over the weekend – that is, Stanford's Academic Senate unanimously approved IPER 7 years ago, on October 25, 2001. The first cohort of PhD students entered the following Autumn and are now launched into their careers. IPER is still a young program and we have much to look forward to.

FACULTY DIRECTOR TRANSITION

A change in leadership lies ahead - **Gretchen Daily**, IPER's fearless faculty director for three years, will step down in January 2009, and **Peter Vitousek**, Clifford G. Morrison Professor in Population and Resource Studies in Biology and Senior Fellow in the Woods Institute for the Environment, will step in as IPER's new Faculty Director. Gretchen steered IPER through its adolescence, expanding the PhD program, launching the Joint JD-MS and MBA-MS program, recruiting new faculty, formalizing degree requirements, and, most importantly, leaving the program in terrific shape to pass on to Peter. *Thank you, Gretchen, and welcome, Peter!*

WELCOME NEW IPER FACULTY

IPER is thrilled to welcome these dedicated new Affiliated Faculty members: **Nicole Ardoin** (Education), **Shilajeet (Banny) Banerjee** (Mechanical Engineering), **Sally Benson** (Energy Resources Engineering (ERE), Global Climate and Energy Program), **Joshua Cohen** (Philosophy, Political Science), **Zephyr Frank** (History), **Margot Gerritsen** (ERE), **James Holland Jones** (Anthropology), **Monica McDermott** (Sociology), **Lynn Meskell** (Anthropology), **Walter (Woody) Powell** (Education), and **Jeremy Weinstein** (Political Science).

WELCOME NEW IPER STUDENTS

Sixteen terrific new students have joined IPER's growing community:

PhD students: **Danny Cullenward**, **Rachael Garrett**, **Dane Klinger**, **Noa Lincoln**, **Charlotte Stanton**, and **Valentina Zuin**.

Joint MBA-MS: **Karan Chaudhry**, **Irina Goldshteyn**, **Annie Hazelhurst**, **Aldo King**, **Andy Martin**, and **Tom Mercer**.

Joint JD-MS: **Ben Carver**, **Ellen Medlin**, **Jared Thompson**, and **Greg Wannier**.

NEW WEB SITE LAUNCHES

Check out IPER's new web site at <http://iper.stanford.edu/home>. Many thanks to **Pamela Lu Stone** and **Clay Hamilton**, School of Earth Sciences' web team, for their tremendous effort designing and launching this site.

2008 IPER GRADUATES

Four IPER dissertations, a record number in a single quarter, were submitted this Summer:

Beth Richards defended her dissertation on June 9th and graduated summer quarter. The title of her dissertation is "Over-Allocation and the Doctrine of Prior Appropriation: Water Rights Settlement Agreements in New Mexico." Committee members include **Leonard Ortolano** (CEE), **Jim Sweeney** (MS&E), **Buzz Thompson** (Law), **Suki Hoagland** (SUSE), **David Freyberg** (CEE), and **Steve Schneider** (chair, Bio). Beth is continuing her career with Sandia National Laboratories in Albuquerque, New Mexico, working in both the solar energy and water sustainability arenas.

Geoff Shester also defended and graduated this summer. His thesis was titled “Sustainability in small-scale fisheries: An analysis of ecosystem impacts, fishing behavior, and spatial management using participatory research methods” and his committee included **Fiorenza Micheli** (lead advisor, Bio), **Larry Goulder** (Econ), **Roz Naylor** (FSI), **Meg Caldwell** (Law), **Buzz Thompson** (Law), and **Jeff Koseff** (chair, CEE).

Geoff is now Senior Science Manager for the Sustainable Seafood Initiative at the Monterey Bay Aquarium, where he oversees the research program for the Seafood Watch program, manages a staff of five full-time researchers, and ensures that the scientific criteria and methodology for measuring fisheries and aquaculture sustainability remains the state of the art (<http://www.mbayaq.org/>).

Veena Srinivasan and **Xuehua Zhang** defended in Spring and also graduated this summer. We’re thrilled that both will remain active members of the IPER community as postdoctoral fellows, in Environmental Earth System Science and Civil and Environmental Engineering, respectively.

Three Joint JD-MS students also graduated:

Travis Brandon spent the summer at Stanford's Center for Ocean Solutions, where he researched state agency structures as part of the Center's marine spatial management project (<http://www.centerforoceansolutions.org/>). Travis is currently clerking for Judge Noonan on the Ninth Circuit in San Francisco.

Edwin Dietrich is a first year medical student at the University of California, San Francisco, where he will continue to pursue his interests in the health impacts of air quality.

Brian Shillinglaw continues to collaborate with Stanford’s Natural Capital Project as Policy and Regulatory Affairs Manager for New Forests, an international forestry investment management and advisory business, specializing in institutional and private equity investments to generate returns from sustainably managed plantation forests and from environmental assets, such as carbon, biodiversity and water (<http://www.newforests-us.com/index.html>).

ADMISSIONS

IPER’s **PhD Admissions** is open for application for the 2009-2010 academic year. Deadline is December 2, 2008. Again this year, IPER’s PhD Admissions Committee comprises **Bill Barnett** (Graduate School of Business), **Helen Doyle** (IPER), **Paul Ehrlich** (chair, Biology), **David Freyberg** (CEE), **Larry Goulder** (Economics), and **Debra Satz** (Philosophy).

Applications for the **Joint MBA-MS** and **Joint JD-MS** for students currently enrolled in the Stanford Law School or Graduate School of Business will be due in late March-early April.

SUMMER ACTIVITIES

Jason Kaminsky (Joint MBA-MS) spent the summer in Houston with Chevron’s Energy Technology Company, developing a R&D investment strategy. He was the first MBA intern in this division and one of the first IPER students to intern within the broader corporation.

Andy Martin (Joint MBA-MS) spent his summer at TerraPass, a company based in San Francisco that markets products and services aimed at helping consumers and businesses reduce their carbon footprints (<http://www.terrapass.com/>).

Caroline Scruggs (3rd year PhD) is interning at the Swedish Chemicals Agency (KemI), a governmental organization whose mission is to create a non-toxic environment, on a project related to implementation of REACH, the new European chemicals legislation. She is also working with the Swedish non-

governmental organization ChemSec, whose mission is to work with progressive businesses to green their products and processes and to substitute dangerous ones for sustainable alternatives, examining why businesses create their private lists of restricted substances and how these lists compare to those created using REACH criteria.

Carolyn Snyder (4th year PhD) spent the summer working as a MAP Fellow at the Natural Resources Defense Council (NRDC) in Washington, DC, in their climate center and in their federal energy program. She completed a variety of projects, including co-writing an internal strategic assessment of federal energy policy priorities for the next administration and Congress, writing a global warming science update, drafting a summary of China's efforts to reduce their greenhouse emissions, and contributing to NRDC's comments on NHTSA's proposed rulemaking on fuel economy standards.

Jared Thompson (Joint JD-MS) worked in the Environmental Crimes Section of the U.S. Department of Justice in Washington, DC, where he assisted with a variety of cases involving ozone-depleting substances, endangered species, oil and hazardous waste dumping, and a nuclear power plant.

STUDENT ACHIEVEMENTS

Kate Brauman (5th year PhD) has been invited to brief the Kona (Hawai'i) Watershed Roundtable on her work quantifying the roles of native forest and pasture in groundwater recharge in the thirsty region.

At the invitation of the Senate Energy Committee, **Jeremy Carl** (4th year PhD) briefed US Senate staff on Energy Security in China and India, in Washington DC in September. Jeremy was also an invited speaker at the School of Advanced International Studies (SAIS), where he gave a talk entitled "A Power-Starved Country: India's Quest for Energy Security."

Marilyn Cornelius (2nd year PhD) is part of a research team that has been awarded a grant from the Precourt Institute for Energy Efficiency (PIEE) to study how to increase energy efficiency behaviors in adolescents. Marilyn also participated in and facilitated a session at a PIEE workshop entitled "Reducing Residential Energy Demand Through Measurement and Feedback," from September 4-5.

Becca Goldman (PhD '08), **Gretchen Daily** (Bio), and others published a paper in the *Proceedings of the National Academy of Sciences*, entitled "Field evidence that ecosystem service projects support biodiversity and diversify options," which was covered in *Environmental Research Web* (<http://environmentalresearchweb.org/cws/article/futures/34933>).

Josh Goldstein (PhD '07), **Gretchen Daily**, and Liba Pejchar (former Bio postdoc) had a paper accepted in the journal *Conservation Letters* entitled "Using return-on-investment to guide restoration: a case study from Hawaii". This paper, which was a core component of Josh's IPER dissertation, develops and illustrates a framework for evaluating which restoration pathways provide the greatest conservation "return" per dollar invested.

Rebeca Hwang (6th year PhD) was one of the lead organizers for a workshop sponsored by Social Entrepreneurship and Education Consortium, an organization she co-founded, held in Denmark in July (https://www.seecglobal.org/Home_Page.html). Rebeca also filed for another provisional patent on "Organization Success Analysis Engines" this summer.

Heather Lukacs (5th year PhD), **Jenna Davis** (CEE), and collaborators had a paper accepted in *Water Resources Research* on "Sustaining the benefits of rural water supply investments: Experience from Cochabamba and Chuquisaca, Bolivia," in press. (<http://www.agu.org/contents/journals/ViewPapersInPress.do?journalCode=WR#id2007WR006550>)

Rachelle Gould (2nd year PhD) received the School of Earth Sciences' Centennial Teaching Assistant award in Spring 2008.

IPER ALUMNI UPDATES

Josh Goldstein (PhD '07) began his position as Assistant Professor in the Department of Human Dimensions of Natural Resources at Colorado State University, where he continues to focus his research on conservation finance and ecosystem services, as well as developing courses for undergraduate and graduate students. His new email address is: joshua.goldstein@colostate.edu.

After serving as a Congressional Science Fellow focused on energy and climate policy, **Holmes Hummel** (PhD '06) has returned to California to accept a visiting lecturer position at UC-Berkeley's Energy Resources Group (ERG). Drawing on fresh experience, Holmes is teaching a course on Climate Policy Design at ERG as well as an abbreviated Pro-Series version for 75 Bay Area professionals (www.holmeshummel.net/ClimatePolicyDesign).

Peter Morgan (JD-MS '06) completed his clerkship with the Supreme Court of Alaska in August and started a new job with the Sierra Club in San Francisco where he is an Environmental Law Fellow working primarily to end the destructive practice of mountain top removal coal mining.

If you do not want to receive the IPER News in the future, please send a message to hdoyle@stanford.edu.