

Jumbo Shrimp and Innovation Policy in *Nature*

In some respects, *innovation policy* can be regarded as an oxymoron, a figure of speech that combines two contradictory terms (ever take a *working vacation*?). A key tension is that policies come too late to affect the past that necessitated them, but too early to understand the future they are supposed to shape. CSPO Co-Director **David H. Guston** believes that social sciences point to a solution. In the August 21, 2008 *Nature* 454 Commentary, Guston proposes *anticipatory governance* as the solution, an approach that retains an element of revolutionary thinking yet steers policy towards goals that are arrived at prudently and democratically. See how to access his full article, "Innovation policy: not just jumbo shrimp," at <http://www.nature.com/nature/journal/v454/n7207/full/454940a.html>.

CSPO Returns to DC

ASU President and CSPO Co-Founder **Michael Crow** has tasked CSPO Co-Director **Daniel Sarewitz** with opening a CSPO office in Washington, DC, to enhance the presence of CSPO and ASU in the Washington policy arena. The details of the new CSPO DC initiative are still being finalized, but the basic framework includes:

- Expanded opportunities for CSPO faculty, professional staff, and students to spend time in DC pursuing research, education, and outreach activities;
- Development of a range of education and research activities aimed at taking advantage of the opportunities offered by the DC environment, including workshops, symposia, short courses, internships, and fellowships for ASU students and faculty;
- Outreach activities to move CSPO ideas, tools, and results into S&T policy decision processes; and
- Development of networks of allied organizations and institutions to advance research and public discourse on key issues such as climate change and governance of emerging technologies, and to more generally increase the effectiveness of science and technology policy for achieving desired social goals.

The CSPO-DC effort will be pursued in light of and consistent with the goals of the CSPO strategic plan. CSPO Co-Director **David Guston** will share overall directorial duties with a focus on the AZ office, CSPO Managing Director **Lori Hiding** will organize and direct day-to-day operations, and CSPO Associate Director for Education **Clark Miller** will lead the development of new CSPO educational opportunities. **Claudia Nierenberg** is joining CSPO-DC on a one-year assignment from the National Oceanic and Atmospheric Administration, working with Dan to develop the intellectual, outreach, and educational agenda of CSPO-DC and to build and strengthen links with federal agencies, Congress, NGOs, and potential collaborators.

Dan took up residence in the DC office on July 1, 2008; CSPO-DC is located at the existing ASU offices in Washington:

**1701 K Street, Suite 301,
Washington, DC 20006
Phone: 202-446-0381**

CSPO-AZ Gets New Digs

To accommodate our recent and future growth spurt, CSPO-AZ has relocated to larger office space on the ASU Tempe Campus. Our new physical address is

**1120 S Cady Mall
Interdisciplinary B Wing Room 366
Tempe, AZ 85287-5603**

And our new mailing address is:

CSPO/ASU
PO Box 875603
Tempe, AZ 85287-5603

Our phone numbers will remain the same. Come by and check out our new digs.

Gordon Research Conference on Science & Technology Policy

The focus of this year's Gordon Research Conference (GRC) on Science & Technology Policy was "Governing Emerging Technologies." Held at the Big Sky Resort in Montana August 17-21, the conference was co-chaired by **David Guston** and Rachel Ankeny of the University of Adelaide in Australia. CSPO was well-represented, with the following faculty and research staff presenting posters: **Derrick Anderson, Daniel Barben, Jennifer Brian, Erik Fisher, Manuel Garay, Shannon Lidberg, Nat Logar, Genevieve Maricle, Ryan Meyer, Zach Pirtle, Cynthia Selin** (also a speaker), **Clea Senneville, Taylor Spears, Walter Valdivia**, and **Jamey Wetmore**. CSPO Affiliates in attendance included **Joan McGregor** (poster), **Roger Pielke Jr.** (Chair of the poster session), and **Gregor Wolbring** (speaker). Roger Pielke is also the rising Chair for the 2010 GRC on Science & Technology Policy, and he has chosen CSPO post-doctoral Associate **Michele Garfinkel** as his co-Chair.

New Program on Human and Social Dimensions of Science & Technology Opens Its Doors

The new interdisciplinary PhD program in the Human and Social Dimensions of Science & Technology welcomed its first class last week. HSDST students are asking hard questions about the conceptual foundations of science and technology and their meaning and application to society. The degree program provides integrated, in-depth training in history and philosophy of science, science and technology studies, and science and technology policy, while giving students flexibility in defining individual curricula. The inaugural class includes: **Monamie Bhadra, Shannon Lidberg, Christine Luk, John McKnight, Chad Monfreda, Sharlissa Moore, and Cyndy Schwartz**. For more information on the HSDST program, visit <http://hsd.asu.edu/index.html>.

Progress in Know-How: Its Origins and Limits

In the Winter 2008 issue of *innovations*, CSPO Co-Director Dan Sarewitz and Richard Nelson, explore the uneven advance of "know-how" – the knowledge, some articulated and some tacit, that guides the actions of skilled agents who aim to achieve a particular practical objective. Why in some areas (i.e., medicine) has know-how to meet human needs advanced at phenomenal rates, while in others (i.e., education) progress has been quite limited? Read the article at http://www.cspo.org/documents/article_Sarewitz-ProgressinKnow-How.pdf.

Using Adaptive Governance to Rethink the Way Science Supports Australian Drought Policy

In this new paper in *Environmental Science & Policy*, CSPO Affiliate **Rohan Nelson**, along with Mark Howden and Mark Stafford Smith, compare and contrast alternative ways of using science to support policy in order to critique traditional commentary on Australian drought policy and find that criticism from narrow disciplinary and institutional perspectives has provided few practical options for policy makers managing these complex and interacting goals. In contrast, ideas from literature on adaptive governance have the potential to create innovative policy options for addressing the multiple interacting goals of Australian drought policy. The article is available at http://www.cspo.org/documents/article_NelsonHowdenStaffordSmithAdGDrought.pdf.

NSF Awards EESE Grant to Integrate Micro- and Macroethics into Graduate S&E Education

The National Science Foundation has awarded a grant through its Ethics Education in Science & Engineering (EESE) program to CSPO Affiliate **Joseph Herkert** (PI), Lincoln Associate Professor of Ethics and Technology in the School of Applied Arts and Sciences at Arizona State University's Polytechnic campus. The award project will design and refine innovative instructional models that integrate microethical and macroethical issues into ethics education for graduate students in emerging areas of science and engineering (S&E). The grant builds upon previous CSPO/CNS projects, including the DC Summer Session, coursework developed by CSPO faculty, and various laboratory engagements. The strengths and limitations of each model will be assessed for student outcomes in moral judgment, maturity, and sensitivity to ethical S&E issues, efficacy of learning, and influence of instructor-student communication on learning. Co-PIs on this award are CSPOers **Jamey Wetmore**, Assistant Professor of Human Evolution and Social

Change, **Karin Ellison**, Associate Director of ASU's Center for Biology and Society, and **Heather Canary**, Assistant Professor of Humanities and Arts at ASU's Polytechnic campus.

More Outreach

Mark Neff recently presented a talk entitled, "Does truth flow like water? The role of social networks in the flow of scientific knowledge in an environmental governance dispute" at the 2008 annual meeting of the Society for the Social Studies of Science. In July, **Troy Benn**, **Jamey Wetmore** and **Ira Bennett** participated in the Arizona Science Center's Triple Play Days with a demonstration of how certain nanosilver socks leech silver nanoparticles into the wastewater, which can potentially impact the balance of beneficial microbes in the environment. Also at the Triple Play Days, **Derrick Anderson** and **Rebecca Hudson** presented a display about CNS-ASU's NanoFutures website.

Upcoming Science Cafés

The Center for Nanotechnology in Society at Arizona State University (CNS) will again be co-hosting a series of public discussions at the Arizona Science Center, 600 E. Washington Street, Phoenix.

- September 19 (5:30-6:30pm): *Is Nanotechnology Good for Sustainability... or Not?*
 - George Maracas, former Professor of Electrical Engineering and the Chief Operating Officer of ASU's Solar Power Laboratory, a collaboration between the Global Institute of Sustainability and the Ira A. Fulton School of Engineering
 - Brad R. Allenby, Lincoln Professor of Engineering and Ethics, Professor of Civil and Environmental Engineering, and Director of the Center for Earth Systems Engineering & Management.
 - Patrick Phelan, Professor of Mechanical and Aerospace Engineering, Ira A. Fulton School of Engineering, and faculty member of the School of Sustainability, Arizona State University.
- October 17 (5:30-6:30pm): *Will Genetic Discrimination Replace Racial Discrimination?*
 - Anthony Garcia, Associate Director of ASU's Hispanic Research Center and Professor of Bioengineering, Ira A. Fulton School of Engineering
 - Joan McGregor, ASU Professor of Philosophy
- November 21 (5:30-6:30pm): *Democratizing Science: Should the Public Have a Voice in Science Research and Development?*
 - Panelists from the National Citizens' Technology Forum on Human Enhancement, Identity and Biology (<http://www4.ncsu.edu/~pwhmds/>)
 - Congressman Harry Mitchell (pending)

For more information on CNS-ASU, visit cns.asu.edu; to receive an electronic newsletter from CNS-ASU, contact cns@asu.edu.

If you would like to unsubscribe from the CSPO mailing list, please contact csपो@asu.edu



Copyright 2007 . [Arizona State University](http://www.asu.edu)
Consortium for Science, Policy & Outcomes
[College of Liberal Arts and Sciences](http://www.asu.edu/college-liberal-arts-sciences)

PO Box 875603, Tempe AZ 85287-5603, Phone: 480-727-8787, Fax: 480-727-8791
<http://www.csपो.org> . Email: csपो@asu.edu