

New Tools for Science Policy Videos

CSPO has been developing tools that can help improve the links between scientific research programs and the societal benefits of research. With funding from the National Science Foundation's Science of Science and Innovation Policy program, we have developed brief **videos** that introduce two of these tools:

- Public Value Mapping (PVM)
- Socio-Technical Integration Research (STIR). [\[Watch\]](#)



Town Hall on Arizona's Energy Future

CSPO Associate Director **Clark Miller** and PSMSTP faculty member **Gary Dirks** served on the panel at the Arizona Youth Town Hall, held October 12th at ASU. This first-time event brought together over 100 students from high schools and universities across the state to deliberate on Arizona's Energy Future. [\[More\]](#)

The Youth Town Hall was a prelude to the **99th Arizona Town Hall** meeting on energy to be held at the Grand Canyon November 6-9. Clark Miller and Sharlissa Moore served as Editors for the background report. **Joe Herkert** authored a chapter on the benefits, risks, and costs of electricity generation; PSMSTP faculty **Bill Brandt** and **Gary Dirks** wrote chapters on transportation fuels from solar energy and a green Silicon Valley in Arizona. [\[More\]](#)



New Tools for Science Policy Breakfast Seminar Series

The New Tools for Science Policy Breakfast Seminar Series successfully kicked off its fall season at the **ASU Washington Center** on October 7 with **Jamey Wetmore's** presentation, *The Challenge of Path Dependency and the Need for Anticipatory Governance*. Sponsored jointly by CSPO and the ASU President's Office, the goal of the seminar series is to catalyze discussions and collaborations between science policy researchers and decision makers about new ideas and approaches for improving the social value of science and technology.



The 30-30-30 minutes of talk-discussion-networking format engaged scholars and decision makers from DC area S&T organizations to explore why change is so difficult in situations involving large technological systems from energy to transportation. Drawing from historical examples, Jamey demonstrated how early and broad assessment of technologies and situations can help promote more beneficial path dependence.

The next seminar on November 16th will feature **Lee Gutkind**, CSPO Distinguished Writer-in-Residence and Professor, Hugh Downs School of Human Communication at Arizona State University, and **Adam Briggie**, Assistant Professor, Department of Philosophy and Religion Studies at the University of North Texas, on *Creative Nonfiction/Narrative: Forging a Working Bond between Next Generation Science Communicators and Next Generation Science Policy Scholars*. [\[More\]](#)

Upcoming Events

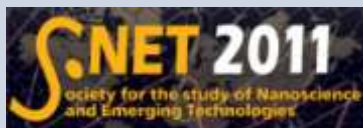
Energy Innovation 2011

CSPO, in collaboration with other leading policy groups, is co-sponsoring this landmark conference on how America can spur and support clean energy innovation. We will build from last year's successful Energy Innovation 2010 conference, which helped bolster the case for developing inexpensive clean and creating a robust green economy through innovation. The central question this year is how to accomplish all of this given the stark budget realities. Once again we will bring together the nation's leading policy thinkers, public officials from the state, regional, and federal level as well as experts from academia and top journalists for a candid, provocative and enlightening exchange of views. Among the speakers will be Sen. Mark Udall (D-CO) and Arun Majumdar, Director of ARPA-E and Acting Under Secretary for Energy at DOE. Panelists will delve into how we can create a green economy by implementing smart public policies that make clean energy cheap through innovation. The conference will be held in Washington, DC on November 17. Please see the full conference [Agenda](#), complete with panel descriptions and speaker biographies. [[More](#)][[Register](#)]



S.NET Conference – Program and Registration

[Advanced Registration](#) for the November 7-10, 2011 [Society for the Study of Nanoscience and Emerging Technologies \(S.NET\) Conference](#) is open through November 6, 2011. S.Net is an international association that promotes open intellectual exchange towards the advancement of knowledge and understanding of nanotechnologies in society. The [Program](#) is now available online. [[More](#)] [[Register](#)] [[Program](#)]

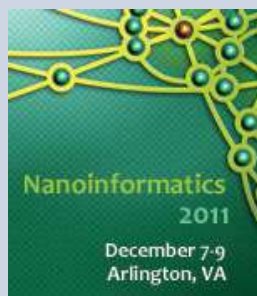


Congress on Teaching the Social and Ethical Implications of Research

There is an increasing push to offer scientists and engineers new forms of education in the social and ethical implications of research. Because this trend is relatively new, there are no cohesive curricula or recognized sets of best practices. But SEI education is happening in a wide variety of spaces including: laboratory training sessions, science museums, online modules, study abroad experiences, and the classroom. The Congress on Teaching the Social and Ethical Implications of Research, November 10-11, will bring together a wide array of educators to share programs, materials and experience and to collaborate on new strategies to help scientists and engineers understand the social and ethical implications of research. [[More](#)] [[Program](#)] [[Accommodations](#)]

Nanoinformatics 2011

Nanoinformatics 2011 will bring together informatics experts, nanotechnology researchers, and other stakeholders and potential contributors to advance Nanoinformatics 2020 Roadmap goals. The workshop will set a clear path for Nanoinformatics participants through the presentation of projects and research, open discussions, and strategic planning sessions. The conference will be held December 7-9, 2011 in Arlington, VA. [[More](#)]



CSPO Publications

Perceptions of U.S. Nano Scientists

Researchers with the [RTTA 2 \(Public Opinion and Values\) Team](#) of the [Center for Nanotechnology in Society at Arizona State University](#) have two forthcoming articles detailing the results of their work. In "Classifying U.S. nano scientists – of cautious innovators, regulators, and technology optimists" to be published in [Science and Public Policy](#), authors [Youngjae Kim](#), [Elizabeth Corley](#), and [Dietram Scheufele](#) examine scientists' perceptions about nano-regulation, including the governmental level (local, national, or international) at which the scientists believe nanotechnology regulation should be implemented using mail survey data of leading U.S. nano-scientists. The second article by [Elizabeth Corley](#), [Youngjae Kim](#), and [Dietram Scheufele](#) will appear in the [Journal of Nanoparticle Research](#). In "Leading U.S. Nano-Scientists' Perceptions about Media Coverage and the Public Communication of Scientific Research Findings," the authors explore the perceptions of leading U.S. nano-scientists about the public communication of research findings and media coverage of nanotechnology, which serves as one relatively rapid outlet for public communication.

Green Revolution: Pathways to Food Security in an Era of Climate Variability and Change?

In a recent paper published in the *Journal of Disaster Research*, **Netra Chhetri** and **Pashupati Chaudhary** argue that in an era of rapidly changing climate and the uncertainties associated with it, the world food system is encountering a significant challenge leading us to question whether the Green Revolution celebrated as technically advanced and “modern” in the past is adequate to respond to the diverse array of challenges that will be encountered in the 21st century. [\[More\]](#)

Solutions for a Cultivated Planet

To meet the world’s future food security and sustainability needs, food production must grow substantially while, at the same time, agriculture’s environmental footprint must shrink dramatically. **Chad Monfreda**, PhD student in the Human Dimensions of Science and Technology, is one of several co-authors on a recent article by Foley et al for *Nature* that analyzed potential solutions to this dilemma, showing that tremendous progress could be made by halting agricultural expansion, closing ‘yield gaps’ on underperforming lands, increasing cropping efficiency, shifting diets and reducing waste. Together, these strategies could double food production while greatly reducing the environmental impacts of agriculture. [\[More\]](#)

The Voice of Science: Let's Agree to Disagree

In his latest World View column, **Dan Sarewitz** says that while consensus reports are the bedrock of science-based policy-making, disagreement and arguments are more useful. Unlike a pallid consensus, a vigorous disagreement between experts would provide decision-makers with well-reasoned alternatives that inform and enrich discussions as a controversy evolves, keeping ideas in play and options open. [\[More\]](#)

ASU Jobs – Communication Technology/Social Media

The **Division of Social and Behavioral Sciences** within ASU’s New College of Interdisciplinary Arts and Sciences has embarked upon a strategic effort to build scholarly and pedagogical expertise in social media and communication technology. As part of this initiative they are seeking faculty from across the social science disciplines who examine communication technology and social media in a variety of contexts and settings.

Associate/Full Professor - Sociology

The division seeks an associate or full professor with expertise in social change and communication technology. The successful candidate will be able to develop courses, teach, and conduct research that examines the role and impact of communication technology in society. [\[More\]](#)

Assistant Professor - Communication

The division seeks an assistant professor with expertise in new media and media campaigns. The successful candidate will be able to develop courses, teach, and conduct research in the areas of new media, social media, and communication campaigns. [\[More\]](#)

CSPO People

Kudos

Congratulations to Human Dimensions of Science and Technology PhD student **Monamie Bhadra**, who was awarded a 2012-13 dissertation research fellowship from the **American Institute for Indian Studies** for her study of nuclear energy policy in India. The fellowship will fund seven months of her research in India next year.

New People

Daniel Higgins joined CSPO last month as a Postdoctoral Research Associate working with ASU’s new Engineering Research Center—Quantum Energy and Sustainable Solar Technology (QESST). Daniel completed an interdisciplinary PhD with the University of Arizona’s Arid Lands



Photo by Bob Nichols, USDA NRCS



Resources Sciences program where his research focused on coal-energy groundwater exploitation on the Black Mesa. He jumped right in, participating along with QESST Senior Investigators **Clark Miller** and **David Guston** at the ERC's opening meeting with representatives from the National Science Foundation and Department of Energy.

The fall semester brought new students to CSPO. New PhD students in the Human and Social Dimensions of Science and Technology include **Carlo Altomirano-Allende**, **Jason O'Leary**, and **Aubrey Wigner**. The **Professional Science Masters in Science and Technology Policy** program welcomed **Cherish Connolly**, **Jackie Fitton**, **Alaina George**, **Anne Halle**, **Travis Johnson**, **Cameron Keys**, **Jessica Passerelli**, and our first DC-based student **Sabrina Delgado-Arias**. We look forward to including their accomplishments in future newsletters.

CSPO Out and About

On September 20, Jamey Wetmore participated on the panel "New technologies – new risks? What are the implications of a technologically complex world on the way we think about risks of novel technologies and practices?" as part of the **2011 Risk Science Symposium: Risk, Uncertainty and Sustainable Innovation** at the University of Michigan. [\[Watch\]](#)

CSPO on the Radio

Climate Change, Science and Democracy: CSPO Affiliate **Mark Brown** was interviewed by Kris Boyd for KERA radio's "Think" on what the politicization of science has done to discussions of important issues like climate change and biotechnology. [\[Listen\]](#)

Saving Species - The Plateau Pika: CSPO Affiliate **Andrew Smith** was featured in this BBC radio series discussing the work he and his team are doing on the role and management of pika on the Tibetan Plateau (*story starts at minute 8*). [\[Listen\]](#)

CSPOres in the World

Recent PhD graduate **Thad Miller** has accepted a position as Assistant Professor of Urban Civic Ecology at Portland State University's Nohad A. Toulan School of Urban Studies and Planning.

CSPO Phd graduate **Ryan Meyer** has accepted the position of Science Integration Fellow at the California Ocean Science Trust (OST), an organization which navigates complex relationships between the State, foundations, scientists, and the public. He will be working on a range of issues including aquatic invasive species, monitoring marine protected areas, institutional challenges of boundary institutions, and various forms of peer review and expert advice.

Mark Neff, another CSPO PhD graduate, and his wife, Kate Darby, also an ASU PhD grad, have been offered tenure track positions at Allegheny College in Meadville, PA, as assistant professors of Environmental Science and Environmental Studies. Mark and Ryan are both CSPO Affiliated Scholars.

Former CNS intern **Daryl Traylor** is participating in AmeriCorps VISTA which works to alleviate poverty in underserved areas of the nation. He is completing his one-year term of service with the San Francisco Public Health Department's Southeast Health Center.

Jason O'Leary completed the Professional Science Master's in Science and Technology Policy degree program in August 2011. As part of his degree requirement, Jason completed an 8 week summer internship with the Arizona Corporation Commission in the office of Commissioner Paul Newman working on AZ regulated utility policies.

Natalie DeGraaf also completed the PSMSTP degree in August 2011. She did her summer internship with the White House Office of Science and Technology Policy, dividing her time among the Division of Technology, Presidential Events, International Affairs, and the National Science and Technology Council.



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CSpawn

Congratulations to CSPO Assistant Research Professor **Ira Bennett** and his partner Sarah Klepac who welcomed a daughter, Mabel Jane, on October 24th. Mother, baby, and proud papa are all doing great.

CSPO thrives with your support

Your involvement with CSPO at any level is appreciated. The continued success of CSPO depends on you. If you would like to show your support through a financial contribution, we have set up a secure online form for your convenience (select Other and note CSPO, account **#30003881**). Your financial contribution is tax deductible, and will be processed by the ASU Foundation, a nonprofit organization that exists to support Arizona State University. Your contribution to CSPO is greatly appreciated. Thank you! **[Support CSPO]**