

### Call for Papers: *Minerva* Special Issue—Young Scholars Take a Look Forward

At its 50th anniversary, *Minerva* wants to look forward with a special issue that asks young scholars in the field of science and technology policy studies to discuss—to probe, to assess, to reveal—the state of the field, and stake out promising future directions. The issue will be edited by **Dan Sarewitz** (CSPO ASU) and **Arie Rip** (University of Twente) who seek contributions by young scholars, i.e. scholars at a relatively early stage of their professional career, and who are in a position to shape the field's intellectual trajectory in the coming decades. Submit abstracts by **15 October 2011** and final papers by January 1, 2012. [\[More\]](#)

### New Grants

#### Cyber-Collective Movements: Novel Socio-computational Approaches in Studying the Blogosphere

**Merlyna Lim** received a grant from the National Science Foundation to scientifically probe how Facebook, Twitter, and other social media can influence group actions. The project will be conducted in collaboration with **Rolf Wigand** and **Nitin Agarwal** from **University of Arkansas at Little Rock**. Members of underrepresented groups, especially female bloggers will play an essential role in the project. While research shows that three of four females online are active social media users, very little research attempts to understand the social, cultural and political roles of female bloggers and collectivity among female social groups. The domain of female Muslim bloggers epitomizes an important contrast deserving attention between socio-political systems where women are frequently denied freedom of expression. The UALR team will receive \$402,191 and the ASU grant will receive \$339,853 for this three-year project. [\[More\]](#)

#### Policy for Enhancing Energy Innovation at the Department of Defense

**Dan Sarewitz** has received a new grant to support the **Clean Air Task Force** on a project to assess the capacity of the Department of Defense to contribute to energy technology innovation that can contribute to the “decarbonization” of the nation's energy system. Project activities include: mapping and assessing relevant DoD energy innovation activities; comparing DoD and Department of Energy capabilities; developing policy proposals for enhancing energy innovation at DoD, as well as dual-use and spin-off applications; developing a network of program managers and others working on energy innovation; and conducting outreach to relevant opinion leaders and policy makers.

#### Research Collaborative Network: Sustainable Energy Systems

**Clark Miller** will serve on the Steering Committee for a new grant from the National Science Foundation to support a Research Collaborative Network on Sustainable Energy Systems. Perhaps no single technological domain is more critical to making progress towards sustainability than energy. This project will establish a collaborative network of University Centers, industrial partners, and regulatory agencies around the theme of Sustainable Energy Systems that seeks to exploit multidisciplinary advances in nanotechnology related to energy generation (e.g., photovoltaics), storage (e.g., batteries), and transmission (e.g., integration of renewables in the electric grid). **Tom Seager**, ASU School of Sustainable Engineering and the Built Environment, is the Principal Investigator.



## Upcoming Events

### **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. [\[More\]](#) [\[Register\]](#) [\[Program\]](#) [\[Accommodations\]](#)

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## CSPO Publications

### **Urban Environmental Policy Analysis**

A new book by **Heather Campbell** and **Elizabeth Corley** focused on urban environmental policy analysis will be published in December 2011. This timely book provides a wealth of useful information for following through on today's renewed concern for sustainability and environmentalism. It's designed to help city managers, policy analysts, and government administrators think comprehensively and communicate effectively about environmental policy issues. [\[More\]](#)

### **Arizona's Energy Future**

**Clark Miller** and **Sharlissa Moore** served as Editors for a report on **Arizona's Energy Future** for the **99th Arizona Town Hall** meeting on energy to be held at the Grand Canyon in early November. They will also be participating in the first **Youth Town Hall**, to be held on ASU's Tempe campus on October 12<sup>th</sup>, based on the same subject. **Joe Herkert** authored a chapter on the benefits, risks, and costs of electricity generation in the report. [\[More\]](#)

### **Water-Demand Management: Assessing Impacts of Climate and Other Changes on Water Usage in Central Arizona**

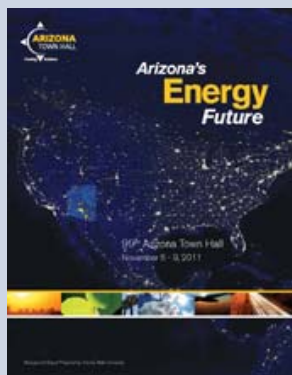
In this new article for the *Journal of Water and Climate Change*, **Netra Chhetri** investigates the current and future factors impacting water supply and demand in the Phoenix metro area. Outdoor water use within the residential landscape is the most important factor that strains water resources in the Phoenix Active Management Area. Any gain in efficiency through agricultural water demand would not only improve the availability of water for other uses, but also facilitate the adaptation of the agricultural system to climate and other changes. [\[More\]](#)

### **Of Insects and Armies**

CNS Postdoctoral Research Associate **Sarah Davies** has a short essay, "Of Insects and Armies" in a new book, **Lemistry: A Celebration of the Work of Stanislaw Lem**. Sarah wrote a short reflection on the ways in which Lem's work prefigured nanotechnology, based on his short story 'The Upside-Down Evolution', written as a military history of the 21st century and which portrays a world in which the weapons of war mimic the size and complexity of insect swarms. Though it was written well before nano was trendy, there are clear parallels and Sarah focuses on biomimicry and the ways in which emerging technologies smudge the boundaries between the natural and artificial. [\[More\]](#)

### **US Army Anthropometric Survey**

In a recent posting on *Armed with Science*, CSPO Affiliate **Claire Gordon** discusses how the US Army Anthropometric Survey (ANSUR II) will help the Army accommodate human physical variation in the design, development, and fielding of military systems. [\[More\]](#)



## Innovative and Responsible Governance of Nanotechnology for Societal Development

In a new Perspectives piece for the *Journal of Nanoparticle Research* with Mihail Roco, Barbara Harthorn, and Philip Shapira, **David Guston** explores options for innovative and responsible governance of nanotechnology. Governance of nanotechnology is essential for realizing economic growth and other societal benefits of the new technology, protecting public health and environment, and supporting global collaboration and progress. The article outlines governance principles and methods specific for this emerging field. [\[More\]](#)

## CSPO Video

### Is Our Techo-Human Marriage in Need of Counseling?

Humans have had a complex relationship with technologies since prehistoric times. In our current age of enhanced body parts and neurochemical mood modulators, humans are flirting with using technologies to transform ourselves, as well as the entire planet. The boundaries between human and technology are eroding, rendering concepts such as "natural" and "artificial" increasingly obsolete. At a recent **Future Tense** event, **Dan Sarewitz** and CSPO affiliate **Brad Allenby**, discussed what a proper techno-human relationship should look like going forward, one that preserves our human — and humanistic — essence in this age of complexity and technological determinism. [\[Watch\]](#) Dan and Brad were also interviewed about their book, *The Techno-Human Condition*, by Wisconsin Public Radio's Veronica Rueckert. [\[Listen\]](#)



## CSPO People

### Kudos

On September 23<sup>rd</sup>, **Women of Color Empowered** honored CSPO affiliate **Dr. Lekelia “Kiki” Jenkins** for her innovative work that changed environmental regulations and helped make commercial fishing more environmentally friendly. This Northwest regional non-profit group showcases the achievements of women who have broken through the glass ceilings and who are improving their communities and the global environment. Kiki exemplifies this mission through her significant contributions to environmental science and marine conservation. She is currently exploring how best to encourage foreign fishermen to use conservation technologies.



The Institute for Humanities Research at Arizona State University named CSPO Affiliate **Prasad Boradkar** the winner of its annual Transdisciplinary Humanities Book Award for his work *Designing Things: A Critical Introduction to the Culture of Objects*. Prasad is interested in the research space that lies at the intersection of design studies, material culture studies and cultural studies. [\[More\]](#)



### CSPO Out and About

Last month, **Merlyna Lim** gave an invited talk on “Politics and Culture of People Movements 2.0 in Indonesia” at a conference on “The Jasmine Revolution and the ‘Bamboo’ firewall: The impact of the Internet and new social media on political change in Southeast Asia,” hosted by the Center for Asian Democracy at the University of Louisville.

**Jamey Wetmore** and **Ira Bennett** attended the Southwest Regional Meeting of the Nanoscale Informal Science Education Network (NISNet) in Berkeley mid-September. The meeting for informal science educators focused on new methods of bringing Social and Ethical Implications of Nanotechnology to museum audiences. Ira and Jamey opened the meeting with a Science Café about the Science and Regulatory Challenges of Commercial Nanoparticles at Jupiter, the East Bay’s most popular beerhouse.

**Joe Herkert**, Lincoln Associate Professor of Ethics and Technology, was an invited speaker at the first meeting of the National Academy of Sciences' Committee on Ethical and Societal Implications of Advances in Militarily Significant Technologies that are Rapidly Changing and Increasingly Globally Accessible held in Irvine, California in August. His topics were "Lessons from Engineering Ethics" and "Ethical Challenges of Emerging Technologies."



Jamey & Ira's Berkeley Science Café

**Jamey Wetmore** was a Bright Spark Fellow at the **UK Genomics Network** at the **University of Edinburgh** this summer. He presented “Swimming Upstream: When Scientists and Engineers are More Concerned about Science and Technology than the Public.” [\[Watch\]](#)

## CSPO Games

### **The Emerging Technology Cacophony Moratorium Mad-lib**

We've all read, and many of us have agreed with, the impassioned pleas for moratoria on, or at least caution towards, emerging technologies such as nanotechnology. But it turns out you can only read so many calls for moratoria before they start sounding alike. **Ira Bennett's** recent Soapbox, using a Mad-lib format, will allow you to create your own news release calling for an emerging technology moratorium. [\[Play\]](#) [\[More Soapboxes\]](#)

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### **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! [\[Support CSPO\]](#)

## Consortium for Science, Policy and Outcomes

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