



DUPONT SUMMIT 2013

..... Pressing Issues, Economic Realities

December 6, 2013 * Historic Whittemore House, Washington, DC

The Policy Studies Organization

Speakers

Darlene Cavalier - *Arizona State University*

Kathryn C. Reeves - *University of Michigan*

Chang Liu - *Arizona State University*

Discussant: Mahmud Farooque - *Arizona State University*

“Participatory Technology Assessment - Promising Developments and Opportunities at Home and Abroad”

Cavalier's talk will focus on the need and opportunities for transitioning citizen scientists from dispassionate collector of data to co-designer, co-producer and co-deliverer of initiatives related to research, learning, public administration and policy. It will discuss the process of giving citizen scientists a platform to move beyond data collection and sorting, beyond creating their own research projects, beyond accessing and building tools to create new areas of research, beyond drawing upon government data to inform themselves and recommending better policies.

Reeves' presentation will consider how participatory technology assessment can be leveraged as a tool for informed policymaking within the federal government, drawing on instances of engagement within the United States—including experiences with government agencies and boundary organizations—and in Europe. It will address opportunities for pTA within the legislative and executive branches, including at the agency level, in which it will focus on NASA's current approach to citizen engagement and how it can use pTA to inspire a new generation.

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“Participatory Technology Assessment – Promising Developments and Opportunities at Home and Abroad”

Liu's talk will look into two major cases—uranium plant construction and waste incineration management to present new insights about public opinions' growing influence in the latest government decisions in China. Has the resistance to new or advanced technology influenced the government's decision-making, and to what extent? Could citizen participation and deliberation help to resolve the tension and obstacles in communication between the government, the experts, and the people?

Biographies

Darlene Cavalier is the founder of SciStarter, an online citizen science community. She is also the founder of Science Cheerleader, an organization that creates mechanisms for public engagement in scientific research and policy discussions, but is far better known for giving rise to the “Science Cheerleaders” comprised of more than 250 current and former NFL and NBA cheerleaders who are also scientists and engineers. Cavalier held executive positions at Walt Disney Worldwide Publishing including Sr. Manager of Global Business Development. She was the PI of a \$1.5 million NSF grant to promote basic research through partnerships with Disney and ABC TV and collaborated with the NSF, NBC Sports, and the NFL to produce the Emmy award winning Science of NFL Football series. Cavalier is also a founding partner of ECAST (Expert and Citizen Assessment of Science and Technology) a network of universities, science centers, and policy think tanks working on participatory technology assessment methods to better inform federal and state science policy making. Darlene's a 2013 recipient of a Shuttleworth Foundation Flash Grant bestowed to “individuals with brilliant ideas” and teachers a graduate course at Arizona State University, aptly titled, “Science Science.” Her work has been featured on the Today Show, CNN, NPR, BBC, Scientific American, ESPN, Discover, the Washington Post, Fox National Headline News and more, and she is a frequent public speaker on all things related to public engagement in science. She earned an MLA from the University of Pennsylvania in Philadelphia where she resides with her husband and four children.



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Biographies (Continued)

Mahmud Farooque's work at CSPO's Washington DC Office focuses on the research, design and implementation of new and exciting opportunities to change the way science and innovation policy is learned and practiced to improve decision-making and societal outcomes. He coordinates CSPO's monthly New Tools for Science Policy Breakfast Seminar series to catalyze discussions and collaborations between science policy researchers and decision makers in Washington DC. He co-leads CSPO's long-term efforts to build a community of practice among innovative R&D program managers in the government—aimed at enhancing the social value of publicly funded science. Dr. Farooque is a principal coordinator at Expert and Citizen Assessment of Science and Technology (ECAST) – a distributive institutional network that brings together research centers, informal science education centers, citizen science programs and non-partisan policy think tanks to engage citizens on decision-making related to science and technology policy. He was a U.S. coordinator of the 2012 World Wide Views on Biodiversity project that hosted citizen consultation meetings in Boston, Washington, Denver and Phoenix. Dr. Farooque holds a Ph.D. in science, technology and public policy from George Mason University and an MPA in technology and information policy from the Maxwell School, Syracuse University. His current research and teaching interests in science and technology policy focuses on technological change, foresight and assessment, innovation systems, research management, and public participation.

Kathryn C. Reeves is a second-year Master of Public Policy student at the University of Michigan's Gerald R. Ford School of Public Policy. She is focusing on science and technology policy, and is particularly interested in the democratization of science. Her research has focused on such topics as citizen engagement and the federal government, geoengineering governance, and government censorship of science.



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Biographies (Continued)

Change Liu came to the United States to study the Great Books Program at St. John's College after he graduated from the United World College in Hong Kong. Immersed in Philosophy and History of Science and Mathematics, he developed an interest in the dynamics between society, science, and technology. He currently writes on China's science and technology policy as an intern with the Consortium for Science, Policy, and Outcomes. As the president of the Chinese Tea and Culture Club at the College, he has a strong enthusiasm to promote Chinese culture and enhance cross-cultural understanding.