



DUPONT SUMMIT 2013

..... Pressing Issues, Economic Realities

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

The Policy Studies Organization

Speakers

Walter D. Valdivia - *The Brookings Institution*

India Hook-Barnard - *National Academy of Sciences*

Jathan Sadowski - *Arizona State University*

Discussant: Rachelle D. Hollander - *National Academy of Engineering*

“Responsible Innovation in Research, Development and Commercialization”

Valdivia's talk will argue that research commercialization is a critical link between economic inequality and innovation. It offers some evidence that the trends in commercialization of biotechnology are not likely to reduce inequality in terms of consumer surplus and wage disparities.

Brundage's talk will explore what responsible innovation means in the context of artificial intelligence (AI) research and identify open questions for responsible innovation in general raised by the case of AI. In recent years, researchers have developed a conceptual framework and various tools for responsible innovation. However, different technical domains have different priorities, ethical considerations, and constraints, leading to different instantiations of responsible innovation in practice.

Sadowski's talk will sketch out a framework that describes each of the four primary intervention points. As emerging technologies continue to rapidly advance, researchers and policy-makers alike have paid more attention to explicitly bringing social and ethical concerns into innovation processes. Taking socio-ethical considerations seriously requires understanding the possible intervention points in the innovation system--that is, locations for shaping technologies at all stages of their development and use--as well as acknowledging their respective strengths and weaknesses.



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Biographies

Walter D. Valdivia's published work includes studies of: public values of the Bayh-Dole Act, wage disparities resulting from the emergence of nanotechnologies, and the tensions between academic freedom and national security with respect to export controls. He has also co-authored a policy report assessing R&D investments in Arizona. His current research examines the distributional outcomes of various modes of university technology transfer, the institutional path-dependence of innovation, and the role of academic freedom in the governance of emerging technologies. Valdivia holds a B.S. in economics from Universidad Católica Boliviana, and an M.S. in economics and a Ph.D. in public administration from Arizona State University.

Jathan Sadowski is a doctoral student in the Human and Social Dimensions of Science and Technology program, which is in the Consortium for Science, Policy & Outcomes at Arizona State University. His research, broadly speaking, looks at the various ways technologies are tangled up in issues of social justice, ethical values, and political economic structures. More specifically, he's been focusing on how these issues arise in urban environments and infrastructure, as well as surveillance, privacy, and data. His work has appeared in *The Atlantic*, *Slate*, *Wired*, and *Los Angeles Review of Books*.

Dr. Rachelle D. Hollander manages the NAE Online Ethics Center (www.onlineethics.org), a widely used resource for engineering and research ethics education. Currently principal investigator on several National Science Foundation (NSF)-funded projects and subcontracts. For many years Dr. Hollander directed science and engineering ethics activities at NSF; she was instrumental in the development of the fields of research ethics and professional responsibility, engineering ethics, and ethics and risk management. She has written articles on applied ethics in numerous fields and on science policy and citizen participation. She is a Fellow of the American Association for the Advancement of Science (AAAS). In 2006, Dr. Hollander received the Olmsted Award "for innovative contributions to the liberal arts within engineering education" from the American Society of Engineering Education's Liberal Education Division. She received her doctorate in philosophy in 1979 from the University of Maryland, College Park.