

First Annual Conference on

Governance of Emerging Technologies: Law, Policy and Ethics

May 20-21, 2013 // Sheraton Wild Horse Pass Resort & Spa // Chandler, Arizona



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Monday, May 20

7:30-8:30 a.m.

Check-in and continental breakfast

8:30-8:45 a.m.

Welcome

Doug Sylvester, Dean, Sandra Day O'Connor College of Law, Arizona State University Jason Robert, Interim Director, Lincoln Center for Applied Ethics, Arizona State University

8:45-9:15 a.m.

Opening Keynote Address

Technology Innovation and the New Social Responsibility
Andrew Maynard, University of Michigan

9:15-10:30 a.m.

The Challenges and Opportunities in Governance of Emerging Technologies

Session Chair, Gary Marchant, Arizona State University

- Title TBA
 Sally Tinkle, Science and Technology Policy Institute
- Title TBA

Dietram A. Scheufele, University of Wisconsin

 Policy Opportunities in the Global Crisis Being Created by Al, Robots, Desktop Manufacturing and BioMedicine
 James Hughes, Institute for Ethics & Emerging Technologies

10:30-10:45 a.m.

Coffee break

10:45 a.m.-12:45 p.m.

Concurrent Session A

A.1 - Military Technologies

Session Chair, Brad Allenby, Arizona State University

- Emerging Military and Security Technologies and the Laws of War Brad Allenby, Arizona State University
- Engineering for Responsibility
 Wendell Wallach, Yale Interdisciplinary Center for Bioethics
- Ethical, Legal and Policy Issues in Military Genomics
 Max Mehlman, Case Western Reserve University
- Clearing Up the Fog in the Fifth Dimension: Regulating Cyber-warfare

Brian Orend, University of Waterloo

Guerrilla Science and Blitzkrieg Technology:
 Military Theories for Governing Emerging Technologies
 Michael Burnham-Fink, Arizona State University

A.2 - Public Engagement and Risk: Synthetic Biology

Session Co-Chairs – Diana Bowman, University of Michigan, and Andrew Maynard, affiliationXX????

- Living the Global Social Experiment: An Analysis of Public Discourse on Solar Radiation Management and its Implications for Governance
 - Phil Macnaghten, University of Campinas and Durham University
- Exploring Genome Editing: Actors, Arenas, and Attitudes Towards Governance
 - Jennifer Kuzma and Aliya Kuzhabekova, University of Minnesota
- Beyond the Lab and Far Away: Immediate and Future Challenges in Governing the Bio-economy
 - Todd Kuiken and Eleonore Pauwels, Woodrow Wilson Center
- Challenges for Public Engagement About the Ethics of Synthetic Biology
 - Gregory Kaebnick and Michael Gusmano, The Hastings Center
- Synthetic Biology Practices at SynBERC
 Megan Palmer and Drew Endy, Stanford University

A.3 – New Tools for Governing Emerging Technologies

Session Chair - TBA

- In Pursuit of Third Generation Human Rights with Fourth Generation Technologies
 - Hans Somsen, Tilburg University
- Federal Regulation of Robotic Aircraft
 - Timothy Takahashi, Arizona State University
- The Invisible Handoff: Policy Issues along the Research to Deployment Continuum
 - David Bjornstad, Amy Wolfe, Barry Shumpert and Maria Fernanda Campa, Oak Ridge National Laboratory
- Methodologies in Regulating Emerging Technologies and a Proposal for the Future
 - Victoria Sutton, Texas Tech University
- Convergent Governance Principles & Stakeholder Capitalism
 Alan Singer, Appalachian State University

Lunch (boxed lunches provided)

12:45-1:30 p.m.

1:30-3:10 p.m.

Responsible Innovation

Session Chair - David Guston, Arizona State University?

- Governing Intent: Responsible Innovation and the Politics of Geoengineering
 - Jack Stilgoe, University College London
- Governance of Financial Innovation and Perceptions of Responsibility: Insights from an Ethnographic Case Study Keren Asante and Richard Owen, University of Exeter Business School

PROGRAM

Democratic Theory and Epochal Technologies: The Case of 3D **Printing**

Edward Woodhouse, Rensselaer Polytechnic Institute

The Collision of Incentive Structures of Actors and Proposed Mechanisms for Responsible Research and Innovation Clare Shelley-Egan, Universiteit Twente, and Douglas Robinson, TEQNODE Limited; Université Paris-Est, LATTS-IFRIS

Coffee break

3:30-5:30 p.m.

Concurrent Session B

B.1 – Smarter Medicine

Session Chair - Gary Marchant, Arizona State University

Immunosignaturing: Towards Comprehensive, Consumer-based, Health Monitoring

Neal Woodbury, Arizona State University

International Governance Approaches to Whole Genome Sequencing

Rebecca Boxhorn and Susan Wolf, University of Minnesota

- Liability Drivers and Impediments to Individualized Medicine Rachel Lindor and Gary Marchant, Arizona State University
- The Emerging Enterprise of Mobile Health Technology: Ethical Considerations in the Age of the Smartphone Tsion Tesfaye, Young Invincibles, and Donna Hanrahan, Columbia University
- The Role of Informal Data Aggregated from Social Media Platforms in Disease Surveillance and Epidemiological Research Donna Hanrahan, Columbia University

B.2 – Nanotechnology

Session Chair - TBA

- Ground Control: Linking Top-Down and Bottom-Up Approaches for International Nanotechnology Governance Rider Foley, Youngjae Kim and Michael Bernstein, Arizona State University
- The Role of Social Responsibility in Leading Nano-Scientists' Perceptions About Nanotech Research and Regulation Youngjae Kim, Arizona State University, Elizabeth A. Corley, and Dietram A. Scheufele AFFILIATION?
- Towards Regulating Engineered Nanomaterials: A Framework as a Tool for Overcoming the Existing Limitations Kiril H. Hristovski, Arizona State University
- Beefing Up FDA Oversight of Nano-Sunscreens and Nano-Cosmetics

Robin Fretwell Wilson, Washington and Lee University School of Law

3:10-3:30 p.m.

Evidence-based Regulation of Food Nanotechnologies:
 A Perspective from the European Union and United States
 Diana Bowman, University of Michigan

B.3 – The Digital World

Session Chair - Joshua Abbott, Arizona State University

- Complying with Facebook's Terms of Use in Academic Research:
 A Contractual, Regulatory, and Ethical Perspective on Data Mining
 Lauren Solberg, University of Florida
- Ubiquity, Interrupted? A Comparison of European, Chinese, and U.S. Governance of the Internet of Things as an Emerging Technology

Mailyn Fidler, Stanford University

- Anticipatory Gaming: Governing Emerging Technologies through Digital Media
 - Jesse Shedd, Arizona State University
- Implications of the Proliferation of In-the-Body Technologies Joseph Carvalko, AFFILIATION?
- Securing the Internet of Things
 Joshua Abbott, Arizona State University

5:30-6:30 p.m.

Break

6:30-7 p.m.

Dinner

7-7:45 p.m.

Introduction of Dinner Speaker

Novel Governance & Technology Strategies for BioSafety & Sharing Genomic/Brain Data

Mildred Z. Solomon, The Hastings Center

Dinner Speaker

George Church, Harvard University

7:45-9 p.m.

The Big Picture on Synthetic Biology and Emerging Technologies

Session Chair - Wendell Wallach, Yale Interdisciplinary Center for Bioethics

- Potential EPA Implications for Environmental Release of Synthetic Organisms
 - Peter Jutro, U.S. Environmental Protection Agency
- Engaging the Public Through Personal Genetics
 Ting Wu, Harvard University
- Designing a "Solution-Focused" Governance Paradigm for Synthetic Biology
 - Adam Finkel, University of Pennsylvania
- Governance of Emerging Technologies:
 Lessons from the Decade of Nano
 Christopher Bossa, Northeastern University

Christopher Bosso, Northeastern University

PROGRAM

7:30-8:30 a.m.

8:30-10 a.m.

10-10:15 a.m.

10:15 a.m.-12:15 p.m.

Tuesday, May 21

Check-in and continental breakfast

Neuroscience: The Next Big Emerging Technology?

Session Chair - Jennifer Kuzma, University of Minnesota

- The Neurolaw Revolution
 Adam Kolber, Brooklyn Law School
- Public (Mis)understanding of Transcranial Direct Current Stimulation as a Cognitive Enhancer
 - Laura Cabrera and Peter Reiner, University of British Columbia
- The Future of Brain-Based Lie Detection: Beyond the Courtroom Francis Shen, University of Minnesota Law School

Coffee break

Concurrent Session C

C.1 – New Approaches for Governing Emerging Technologies Session Chair – TBA

- The Case for Adaptation in the Governance of Emerging Technologies
 - Marc Saner, University of Ottawa
- Regulatory Competitive Shelters—An Emerging Mechanism for Encouraging Technological Innovation
 - Yaniv Heled, Georgia State University College of Law
- Coding International Law
 Molly Land, New York ??? Law School
- Governing the Governance of Emerging Technologies
 Gary Marchant, Arizona State University, and Wendell Wallach,
 Yale Interdisciplinary Center for Bioethics
- Patent Law's Neglect of the Extraordinary Role of the Ordinary User in Disseminating Technologies
 Gaia Bernstein, Seton Hall University

C.2. - Smart Machines

Session Chair - TBA

- The Machine Question: Can Machines Have Rights? David J. Gunkel, Northern Illinois University
- Assuring Privacy and Security in Vehicle-to-Vehicle Safety Communications
 - Dorothy Glancy, Santa Clara University
- The Ethical and Social Ramifications of Rossler's Blueprint for Making Benevolent Robots
 - Kevin LaGrandeur, NYIT & IEET
- Compliance Measures for an Autonomous Weapons Convention Mark Gubrud, Princeton University
- The "Bright Green Line" of Responsibility
 Mark Waser, Digital Wisdom Institute

C.3 - Life Sciences Innovation

Session Chair - TBA

- Policy Uncertainty, Ethical Controversy and Emerging Technologies: Lessons from the Funding of Stem Cell Science Aaron Levine, Georgia Institute of Technology
- From Lab Bench to Fuel Pump: Policy Implications in the Development of Lignocellulosic Biofuels
 Maria Fernanda Campa, David Bjornstad, Amy Wolfe and Barry Shumpert, Oak Ridge National Laboratory
- Different Risk, Different Name?: The Debate over Assignment of Nonproprietary Names for Biosimilar Biologics
 - Jordan Paradise, Seton Hall University
- Privatizing Biomedical Citizenship
 Jonathan Kahn, Hamline University School of Law
- Leveraging the New Predictive Toxicology Paradigm in Evaluating Emerging Technology
 Elizabeth Beryt and Timothy Malloy, UCLA

12:15-12:45 p.m.

Lunch

12:45-1:30 p.m.

Luncheon Speaker

Title TBA

George Poste, Arizona State University

1:30-2 p.m.

Informal discussion and conference follow-up

Law, Science & Innovation





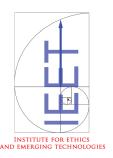




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