

Second Annual Conference on

Governance of Emerging Technologies: Law, Policy and Ethics

May 27-29, 2014 // Talking Stick Resort // Scottsdale, Arizona

PROGRAM

Tuesday, May 27

12:30–1 p.m.

1–1:15 p.m.

1:15–2:45 p.m.

2:45–3 p.m.

3–4:30 p.m.

Check-in/Refreshments

Welcome

- Gary Marchant, Center for Law, Science & Innovation
- Douglas Sylvester, Dean, Sandra Day O'Connor College of Law

Plenary Session 1 – Governing Innovation from Bench to Bedside (Salt River Ballroom 2 & 3)

Chair – Jason Robert, Lincoln Center for Applied Ethics, ASU

- George Poste, Complex Adaptive Systems Initiative, ASU
- Jennifer McCormick, Mayo Clinic
- David Ewing Duncan, Author; Center for Life Science Policy, Berkeley
- Jason Robert, Lincoln Center for Applied Ethics, ASU

Coffee break

Concurrent Session I

Session 1.1 – Nanotechnology (Dove G)

Chair – Timothy Malloy, UCLA School of Law

- **A Case for the Commonplace: Locating Nanotechnology within Existing Regulatory Frameworks**
Jeff Morris, U.S. Environmental Protection Agency
- **A Triumvirate of Forces (Plaintiffs, Insurers and Regulators) Soon Will Impact Nano Commercialization: A Predictive Assessment of Governance, Economic and Public Perception Implications**
Griffith A. Kundahl, NanoBusiness Commercialization Association
- **Global Nanotechnology Governance from a Network Analysis Perspective**
Reut Snir, Law Faculty, Bar Ilan University, Israel
- **Machine Ethics: An Ethics of Perception of Nanocognition**
Melanie Swan, Kingston University, London

Session 1.2 – Managing Novel Technologies (Dove H)

Chair – Andrew Maynard, University of Michigan Risk Science Center

- **Autonomous Vehicle Implementation – Three Scenarios**
Dorothy J. Glancy, Santa Clara University School of Law
- **Transparency Failures of the Third Kind in Unconventional Gas Drilling (UGD)**
Bernard Goldstein & Russellyn Carruth, University of Pittsburgh
- **As Time Drones On**
Timothy T. Takahashi, School for Engineering of Matter, Transport & Energy, ASU
- **Mobile Money, Mobile Banking and the Governance of Emerging Technologies in Africa**
Okey C. Iheduru, School of Politics & Global Studies, ASU

5–6 p.m.

6–8:30 p.m.

Session 1.3 – Big Implications of Emerging Technologies (Dove I)

Chair – Wendell Wallach, Bioethics Center, Yale

- **Emerging Digital Technologies and their Improvement to the Liberty/ Security Frontier**
John McGinnis, Northwestern University Law School
- **The Procedural Republic and the Unencumbered Brain: Neuroscience and the Biologization of Racism in Law and Society**
Jonathan Kahn, Hamline University School of Law
- **Automatic License Plate Readers: An Effective Law Enforcement Tool or the Latest Tool for Mass Surveillance?**
Randy L. Dryer, S.J. Quinney College of Law, University of Utah
- **Selfishness, Interdependence & the Algorithmic Execution of Entity-Derived Intentions and Priorities**
Mark Waser, Digital Wisdom Institute

Reception/Student Posters

Dinner Program (Salt River Ballroom 2 & 3)

Chair – David Guston, Center for Nanotechnology in Society, ASU

Keynote

Film Screening: Fixed

Regan Brashear, Independent Film Producer

Commentators:

- Gregor Wolbring, Dept. of Community Health Sciences, University of Calgary
- David Ewing Duncan, Author; Center for Life Science Policy, Berkeley

PROGRAM

Wednesday, May 28

8:30–9 a.m.

9–10:30 a.m.

10:30–10:45 a.m.

10:45 a.m.–12:15 p.m.

Check-in / Continental Breakfast (Salt River Ballroom 2 & 3)

Plenary Session 2 – The Dual-Use Problem and Technology (Salt River Ballroom 2 & 3)

Chair – Susan M. Wolf, Consortium on Law and Values in Health, Environment & the Life Sciences, University of Minnesota

- Susan A. Ehrlich, Appellate Judge (ret.)/former NSABB member
- Victoria Sutton, Texas Tech University School of Law
- Michael T. Osterholm, School of Public Health, University of Minnesota
- Brad Allenby, Ira A. Fulton School of Engineering, ASU

Break

Concurrent Session 2

Session 2.1 – Re-Envisioning Humanity (Dove G)

Chair – Gary Marchant, Center for Law, Science & Innovation

- **Evolving Technologies & Marital Relationships: Can Law Keep Pace?**
Yvonne A. Stevens, Center for Law, Science & Innovation, ASU
- **Governance of S&T through an Ability Studies Lens**
Gregor Wolbring, Dept. of Community Health Sciences, University of Calgary
- **Human Enhancement: Its Techno Nature**
Natasha Vita-More, University of Advancing Technology
- **On Patenting Human Organisms or How the Abortion Wars Undermine Technological Innovation**
Yaniv Heled, Georgia State University College of Law

Session 2.2. – Genetically Engineered Organisms (Dove H)

Chair – Leili Fatehi, Initiative on Governance of Emerging Technological Systems, University of Minnesota

- **Regulatory (Mouse) Traps: Social, Cultural and Ethical Issues in Classifying Genetically Engineered Organisms**
Elizabeth A. Pitts & Jason A. Delborne, North Carolina State University
- **Case Study Analysis of Two Environmental Applications of Synthetic Biology**
Christina Ndoh, North Carolina State University
- **Genetic Pest Management and Society: An Interdisciplinary Assessment of Current and Emerging Technologies for Dengue Control**
Amanda Clayton, North Carolina State University
- **The Appeal to “Transparency” in the Regulation of Genetically Modified Insects**
Molly Hartzog Storment, North Carolina State University & Steven B. Katz, Clemson University

12:30–1:30 p.m.

1:30–2 p.m.

2–3 p.m.

3–3:30 p.m.

3:30 p.m.–5 p.m.

Session 2.3 – New Models for Ethical Anticipation (Dove I)

Chair – Marc Saner, Institute for Science, Society and Policy, University of Ottawa

- **Why Clarification of Ethical and Legal Challenges Associated with Emerging Technologies is a Hard Problem**
George Khushf, University of South Carolina
- **Consolidating European Ethics Assessment for Research and Innovation: The SATORI Project**
Clare Shelley-Egan, Trilateral Research & Consulting
- **Project Hieroglyph: Building a Network of Technological Imagination**
Ed Finn/Joey Eschrich, Center for Science and the Imagination, ASU
- **Narrative Foresight Techniques for Scenario Generation Using “Eventuality”**
Michael Burnam-Fink, Human and Social Dimensions of Science and Technology, ASU

Banquet Lunch (Salt River Ballroom 2 & 3)

Keynote (Salt River Ballroom 2 & 3)

Tom Kalil, Office of Science and Technology Policy (by conference call)

Keynote

Privacy by Design and Emerging Technologies: Paving the Way to Preserving Our Freedoms and Driving Innovation

Michelle Chibba, Director, Policy and Special Projects, Information and Privacy Commissioner’s Office, Ontario, Canada

Break

Concurrent Session 3

Session 3.1 – Synthetic Biology I (Dove G)

Chair – Andrew Maynard, University of Michigan Risk Science Center

- **Case Studies Applying the “Solution-Focused Risk Assessment” Paradigm to Synthetic Biology**
Adam Finkel, University of Pennsylvania Law School
- **Exploring the Meaning of Democratic Deliberation over Synthetic Biology**
Michael Gusmano, Hastings Center
- **Synthetic Biology and Risk Governance: An Action-Oriented Approach**
Jennifer Kuzma, Genetic Engineering and Society Program, North Carolina State University
- **Case Study: The Environmental Release of Glowing Plants**
Antony Evans, Glowing Plants

Wednesday, May 28 (cont.)

Session 3.2. – New Governance Models (Dove H)

Chair – Joshua W. Abbott, Center for Law, Science & Innovation

- **Industry Self-Regulation of Online Privacy**
Angela J. Campbell, Georgetown Law
- **Regulatory Options for the Global Trade in Zero-Day Vulnerabilities**
Maily Fidler, Center for International Security and Cooperation, Stanford University
- **A Seductive Model of Governance: Protecting Critical Infrastructure through Network Security Agreements**
Joshua W. Abbott, Center for Law, Science & Innovation, ASU
- **The Role of Institutionalized Validation in Integrating Emerging Science into Regulatory Decision-making**
Elizabeth Beryt, UC CEIN and the Luskin Center for Innovation

Session 3.3 – Life Cycle Analysis and Responsible Innovation (Dove I)

Chair – Gary Marchant, Center for Law, Science & Innovation

- **Life Cycle Governance: From Responsible Innovation to Disaster Management**
Marc A. Saner, Institute for Science, Society and Policy, University of Ottawa
- **From Risk-Based To Opportunity-Based: Conditions for Responsive Regulatory Arrangements That Promote Responsible Innovation**
Polly MacLaine Pont, Rathenau Institute, The Netherlands
- **The Clash of Meta-Models: A Study of Conflicts that Undermine the Flourishing of Big Science**
Jeremy Weissman, Philosophy, University of South Carolina
- **Innovation-friendly Regulation**
Sofia H. Ranchordas, Tilburg University, The Netherlands

Dinner on own

Thursday, May 29

Check-in / Continental Breakfast (Salt River Ballroom 2 & 3)

Keynote (Salt River Ballroom 2 & 3)

Geoengineering

David Keith, School of Engineering and Applied Science, Harvard University

Concurrent Session 4

Session 4.1 – Geoengineering (Dove G)

Chair – Brad Allenby, Ira A. Fulton School of Engineering, ASU

- **Towards Ethical Geoengineering**
Brad Allenby, Ira A. Fulton School of Engineering
- **Climate Engineering Governance and Legitimacy**
Daniel Bodansky, Sandra Day O’Connor College of Law, ASU
- **Developing a Discourse for the Ethics of Environmental Enhancement**
Floor Fleurke, Tilburg Law School

Thursday, May 29 (cont.)

Session 4.2. – Synthetic Biology II (Dove H)

Chair – Megan Palmer, SynBERC

- **(Synthetic) Biotechnology: (How) Can we Responsibly Innovate?**
Megan Palmer, Center for International Security and Cooperation (CISAC), Stanford University; California Institute for Quantitative Biosciences (QB3) and Synberc, UC Berkeley
- **Synthetic Biology and the U.S. Biotechnology Regulatory System: Challenges and Options**
Sarah Carter, J. Craig Venter Institute
- **Adaptive Risk Governance in Biotechnology: Looking Back at Transfats, Looking Ahead on Pharmaceuticals and Synthetic Biology**
Kenneth Oye, Political Science and Engineering Systems, MIT; SynBERC
- **Engagement Across the Synthetic Biology Spectrum: Exploring the Ecological, Biosafety and Biosecurity Concerns**
Todd Kuiken, Science and Technology Innovation Program, Wilson Center

Session 4.3 – Health Technology Innovation (Dove I)

Chair – Wendell Wallach, Bioethics Center, Yale

- **Challenges in the Translation and Commercialization of Regenerative Medicine**
Aaron D. Levine,School of Public Policy, Georgia Institute of Technology
- **Neuroimaging Mental Disorder Classification, and the Law: The Case of Gambling Disorder**
Stacey A. Tovino, William S. Boyd School of Law, University of Nevada
- **Personal Biometric Data Tracking: Risk and Regulation**
Timothy S. Hall, Louis D. Brandeis School of Law, University of Louisville
- **The Hidden Implications of Telemedicine for Licensed Health Professionals**
Diva Galan, Arizona State Board of Nursing

Break

Plenary Session 3 – Complexity and Emerging Technologies (Salt River Ballroom 2 & 3)

Chair – Joshua W. Abbott, Center for Law, Science & Innovation, ASU

- Wendell Wallach, Bioethics Center, Yale
- Susan M. Wolf, Consortium on Law and Values in Health, Environment & the Life Sciences, University of Minnesota
- Timothy Malloy, UCLA School of Law
- Gary Marchant, Center for Law Science & Innovation, ASU

Box Lunches/Affinity Group Informal Meetings

5 p.m.

8–8:30 a.m.

8:30 a.m.–9 a.m.

9 a.m.–10:30 a.m.

10:30–10:45 a.m.

10:45 a.m.–12:15 p.m.

12:15–1:30 p.m.

Sponsors // Gold



Sponsors // Silver



Sponsors // Bronze

