

Third Annual Conference on Governance of Emerging Technologies: Law, Policy and Ethics

May 26-28, 2015 // Scottsdale Resort & Conference Center // Scottsdale, Arizona

PROGRAM

11:30	a.m12:30	p.m.
11.00	u	

12:30-12:45 p.m.

12:45-2:15 p.m.

2:15-2:30 p.m.

2:30-4 p.m.

Tu	esday, May 26
Cł	eck-in / Lunch (Vista Verde Dining Room)
We	elcome
Ch Pa	enary Session I – Technological Unemployment (Maricopa I) air: Gary Marchant, Arizona State University nelists: Martin Ford, author James Hughes, PhD, Institute for Ethics and Emerging Technologies (IEET) Yvonne Stevens, Arizona State University
Br	eak
Co	oncurrent Session I
	ssion 1.1 – Robotics and Autonomous Systems (Maricopa III) derator: Wendell Wallach, Yale University
1	Intentionless Free Speech: Robots & Receivers David Skover, Seattle University School of Law
ľ	Who's Johnny? Anthropomorphic Framing in Human-Robot Interaction Integration, and Policy Kate Darling, MIT
1	The Robots Must Be Crazy: DSM TURING TEST Greg Garvey, Quinnipiac University
Ì	Al Safety: Why Has It Suddenly Become Important, and How Should It Be Addressed Wendell Wallach, Yale University
	ssion 1.2 – New Digital Technologies (Papago II) derator: Joshua Abbott, Arizona State University
1	Digitized Spaces: Law and Policy Issues of Real-time 3D Mapping Technologies Joshua Abbott, Arizona State University
•	Slow Sunset of the Self Brad Allenby, Arizona State University
•	Protecting the Right to Be Left Alone from the Eyes of the Yik Yak "He Jeremy Weissman, University of South Carolina
ľ	Intellectual Property and the Digitization of Taste John Cross, University of Louisville School of Law
	ssion 1.3 – Environment & Technology (Maricopa II) derator: Lauren Burkhart, Arizona State University
1	Inducing Regulatory Innovation: Lessons from the Clean Air Act Jonas Monast, Duke University
ľ	Defining Resilience for Emerging Technologies Igor Linkov, U.S. Army Engineer R&D Center

- Examination of a Negotiation Model for Addressing Community Concerns about Innovative Industrial Processes Michael Baram, Boston University
- Innovation Rewards: Towards Solving the Twin Market Failures of Public Goods Gregory N. Mandel, Temple University School of Law

Session 1.4: Shaping Innovative Relationships (Papago I) Moderator: Gary Marchant, Arizona State University

- Engagement
- Jathan Sadowski, CSPO

(Maricopa I)

4–5:30 p.m.

6-8:30 p.m.

Chair: David Guston, CNS-ASU Panelists:

- Commentators:
- David Guston, CNS-ASU

Dinner (Vista Verde Dining Room)

Film Screening (Maricopa I) The Singularity: Will We Survive Our Technology? Q&A with Film Director Doug Wolens Film will begin at 7 p.m.

Emergence, Innovation, Supply Lines, Ecosystems and Public

David Berube, North Carolina State University

Selling Smartness: How Corporations Shape "Smart City" Policy

 Trauma Informed Care Educational Intervention Nicole Lamar, Arizona State University

 The Biology of Romance: Genes, Pheromones & Oxytocin Gary Marchant, Arizona State University

Plenary Session II – Inter-Generational Equity and Emerging Technologies

 Carolyn Raffensperger, Science & Environmental Health Network Stephen Gardiner, University of Washington

Jennifer Kuzma, North Carolina State University

PROGRAM

Wednesday, May 27

7:30–8:30 a.m.	Check-in / Breakfast (Vista Verde Dining Room)		Session 2.4 – Huma Moderator: Joshua Abb
8:30–10 a.m.	Plenary Session III – Just War Theories and Emerging Technologies (Maricopa I) Chair: Brad Allenby, Arizona State University		 Untangling the D Natasha Vita-More,
	Panelists: Diana Bowman, University of Michigan Brad Allenby, Arizona State University 		 Human-focused Techno-social Er Brett Frischmann, C
	 Daniel Rothenberg, Arizona State University Laura Dickinson, George Washington University 		 Towards An Ada Brad Allenby, Arizon
10–10:15 a.m.	Break		Defining Deliber
10:15–11:45 a.m.	Concurrent Session 2		Ben Hurlbut, Arizon
	Session 2.1 – Synthetic Biology (Maricopa III) Moderator: Jennifer Kuzma, North Carolina State University	11:45 a.m.–1:15 p.m.	Lunch - Keynote Spe Mustafa Suleyman, Introduced by Wendell
	Synthetic Biology: A State of Affairs Todd Kuiken, Woodrow Wilson Center	1:15–2:45 p.m.	Plenary Session IV - Chair: Jim Weinstein, Ar
	 Two Complementary Governance Approaches to Maximizing Net Societal Benefit from Synthetic Biology Adam Finkel, University of Pennsylvania Law School 		Panelists: Meg Jones, George Ash Bhagwat, UC I
	U.S. EPA GM/Synbio Algae Guidance Project Jeff Morris, U.S. Environmental Protection Agency		David Bodney, BallAmy Gajda, Tulane
	 When Expert Opinion Meets Public Engagement: A Policy Delphi on South stip Dicks we 	2:45–3 p.m.	Break
	Synthetic Biology Sheron King, North Carolina State University	3–4:30 p.m.	Concurrent Session
	Session 2.2. – Anticipatory Governance (Maricopa II) Moderator: Lauren Burkhart, Arizona State University		Session 3.1 – Molec Moderator: Gary March
	 Proactive Governance of Emerging Technologies: Top Ten Activities to Improve International Regulatory Cooperation Marc Saner, University of Ottawa 		 Molecular Diagn Approach to an A Kathryn Scheckel, A
	A Comprehensive Set of Approaches to Maintain Control of Emerging Technologies Wendell Wallach, Yale University		 Translating Next Challenges Rais Pilar Ossorio, Univertier
	 Developing Danger Bryant Walker Smith, University of South Carolina 		A Holistic Appro- Anna Laakmann, Le
	 Anticipatory Co-Governance and a Bridge between Goods-Centric and Functional Approaches to Governance 		 Medical Device I Richard Williams, M
	Joseph Grossman, Arizona State University		Session 3.2. – Big D Moderator: Joshua Abb
	Session 2.3 – Technology and Legal Oversight (Papago I) Moderator: Gary Marchant, Arizona State University		The Internet of T D.A. Baker, CSPO
	 Then Came the Lawyers, Then Came the Rules: The Need for Improved Understanding and Regulation of Neuroimaging Evidence in the Law Alison Lynch, Disability Rights New York 		Contractual Reg Empirical Survey Timothy Hall, Univer
	 The U.S. Supreme Court and Emerging Technologies Vickie Sutton, Texas Tech University 		 We Know Who Ye Anonymity and It
	 Big Data and Data Analytics in the Courtroom Michael Arkfeld, Arkfeld & Associates 		Christine Davik, Un
			 Penny for All You Joshua Abbott, Ariz

man Enhancement (Papago II) bbott, Arizona State University

e Debate on Society and Human Enhancement re, University of Advancing Technology

ed Turing Tests: A Framework for Judging Nudging and Engineering of Human Beings n, Cardozo Law School

daptive Ethic of Human Enhancement zona State University

eration from Asilomar to CRISPR zona State University

Speaker (Maricopa I) n, Google DeepMind ell Wallach, Yale University

V – Free Speech, Privacy & Technology (Maricopa I) Arizona State University

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ecular Diagnostics and Medical Devices (Papago I) rchant, Arizona State University

gnostics Regulation: Shifting from a Biomarker-Based n Algorithm-Based Approach el, Arizona State University

ext Generation Medical Tests: Ethical and Governance ised by Medical Software iversity of Wisconsin

roach to Complex Medical Diagnostics Lewis and Clark Law School

e Innovation - Updating Archaic Regulation, Mercatus Center

Data and Privacy (Papago II) boott, Arizona State University

Things, Privacy, and the Need For Public Discourse

egulation of Personal Fitness and Health Data Tracking: An rey

versity of Louisville

You Are and What You are Made Of: The Illusion of Internet Its Impact on Protection From Genetic Discrimination University of Maine School of Law

Your Thoughts?: Big Data and the Future of Thought Privacy Arizona State University

PROGRAM

4:30-6 p.m.

6-7 p.m.

8-9 a.m.

9-10:30 a.m.

Wednesday, May 27 (cont.)

Session 3.3 – Digital Economy (Maricopa II) Moderator: Lauren Burkhart, Arizona State University
Blockchains, Smart Contracts, Consensus Trust, and Pluralistic Morality Melanie Swan, Kingston University London
Why Bitcoin Fails as Money: An Operational Risk Analysis Angela Walch, St. Mary's University School of Law
The Dilemma of Digital Monopolies William Murphy, University of New Hampshire School of Law
 Is Bitcoin the Future of Money? Perspective on Regulating Virtual Currency Emily McReynolds, University of Washington
Session 3.4 – Biotechnology (Maricopa III) Moderator: Marc Saner, ISSP, University of Ottowa
 Regulation of Crop Biotechnology in the European Union: 25 Years of Lessons and Lament Shane Morris, National University of Ireland
 "New and Emerging Issues" at the UN Convention on Biological Diversity: Exploring Responses to Scientific Uncertainties Deborah Scott, Rutgers University
 Anticipating Responsible Innovation: Genetically-Modified Trees and Conceptualizations of Technological and Regulatory Futures Jason Delborne, North Carolina State University
 Joint Governance of Emerging and Degrading Technologies: Antimicrobials and Biomedical Innovation Sujatha Raman, University of Nottingham
 Plenary Session V – Politicization of Science and the Governance of Emerging Technologies (Maricopa I) Chair: Jason Robert, Lincoln Center, Arizona State University Panelists: Sally Satel, AEI Janet Radcliffe Richards, Oxford Mark Brown, California State University
Reception/Student Poster Presentations (Maricopa II & III)
Thursday, May 28
Check-in / Breakfast (Vista Verde Dining Room)
Concurrent Session 4
Session 4.1 – Anti-Aging Technologies (Papago I) Moderator: Gary Marchant, Arizona State University
The Science of Anti-Aging James Kirkland, Mayo Clinic
Increasing Healthspan and Lifespan: The Potential for Regeneration

g meaninspan and Lifespan: The Potential for Regeneration through Senescent Cell Clearance Lewis Gruber, Siwa Corporation

10:30–11 a.m.

11 a.m.-12 p.m.

Four Longevity Scenarios

 Overcoming Regulatory Impediments to Anti-Aging Technologies Gary Marchant, Arizona State University

Session 4.2. – New Genetic Technologies (Maricopa III) Moderator: Diana Bowman, University of Michigan

- **Sequencing Technologies**
- **Emerging Technology**

- Heather Roff, University of Denver

- Spinal Cord Injury

Break

Closing Keynote (Maricopa I) Jonathan Moreno, University of Pennsylvania

Governance of Emerging Technologies: Law, Policy and Ethics

Thursday, May 28 (cont.)

Joel Garreau, Arizona State University

Governance of State-Mandated Newborn Screening Programs: **Engaging Communities to Inform the Use of Novel Genome** Barbara Koenig, University of California, San Francisco

 Non-Invasive Prenatal Testing: Addressing the Challenges of an Vardit Ravitsky, University of Montreal

 Governing the Pre-Demented: Genetic Testing for Alzheimer's Disease in Germany, the United Kingdom and the United States Margaret Curnutte, Baylor College of Medicine

 Liability Prevention and Intergenerational Genomic or Epigenetic Harm Thomas Redick, Global Environmental Ethics Counsel, LLC

Session 4.3 – National Security and Technology (Papago II) Moderator: Joshua Abbott, Arizona State University

 Gain-of-Function Virus Research: An Uneven Regulatory Environment Eileen Kane, Penn State Dickinson School of Law

 Emerging Technologies and Law of Armed Conflict Signaling Eric Talbot Jensen, Brigham Young University Law School

Command Responsibility for Lethal Autonomous Weapons

 "Nano-enhanced" Weapons and the Law of Armed Conflict Kobi-Renee Leins, Melbourne University

Session 4.4: Health Care Innovation (Maricopa II) Moderator: Lauren Burkhart, Arizona State University

 mHealth: Legal Barriers to Disruptive Innovation in Healthcare Fazal Khan, University of Georgia School of Law

 New Technologies and New Understandings of Human Being Majia Nadesan, New College, ASU West campus

Trust and Transparency in the Communication About Stem Cells for

Karen Jacob, University of British Columbia

How Governance-Free Zones Emerged in Ethical Science Organizations: **Research Breakdowns and Resilience in Translational Cancer Medicine** Ellie Okada, Boston Cancer Policy Institute

Lunch available after the close of the Conference in the Vista Verde Dining Room







Sponsors // Silver



Sponsors // Bronze









