Day 1
Wednesday, May 16

8:00–8:30 a.m. Breakfast
W. P. Carey Foundation Armstrong Great Hall

8:30–8:45 a.m. Welcome
W. P. Carey Foundation Armstrong Great Hall

8:45–9:30 a.m. Keynote: Eight Simple Rules for Regulating My Disruptive Innovation
Larry Downes, Author and Project Director at the Georgetown Center for Business and Public Policy
W. P. Carey Foundation Armstrong Great Hall

9:30–11:00 a.m. Plenary Session 1: Success Stories in International Coordination
Moderator: David Winickoff, OECD and SciencesPo Law School (Neurotechnology)
- Charlotte Stanton, Carnegie Endowment for International Peace (Artificial Intelligence)
- Chris Mondini, ICANN (Internet Domain Names)
- Megan Brown, Wiley Rein (Internet of Things)
W. P. Carey Foundation Armstrong Great Hall

11:00–11:15 a.m. Break

11:15 a.m.–12:45 p.m. Concurrent Session 1.1: Neurotechnology
Room 150
1. Guiding Principles for Responsible Innovation in Neurotechnology for Health
   David Winickoff, OECD and SciencesPo Law School
2. Brain-Computer Interfaces: Guidelines for Responsible Robotic-Humanism
   Jeff Ward, Duke School of Law
3. Race on the Brain: Behavioral Realism and its Technical Fix for Racism
   Jonathan Kahn, Mitchell Hamline School of Law
4. Exploring Some Legal Implications of Neuroscience Research Finding Sex Differences in the Brain
   Betsy Grey, Arizona State University

Concurrent Session 1.2: AI & Values
Room 250
1. Safe-By-Design: Principled Methods of Embedding Values in Transformative Technologies
   Steven Umbrello, Institute for Ethics and Emerging Technologies
2. Artificial Intelligence in Geriatric Medicine and Caregiving: Legal and Ethical Challenges of Advancing Technologies
   Timothy S. Hall, Louis D. Brandeis School of Law; University of Louisville

12:45–1:45 p.m. Lunch
W. P. Carey Foundation Armstrong Great Hall, 2nd floor

Concurrent Session 1.3: Privacy and Surveillance
Room 450
1. What Does May 26 Look Like? The GDPR Impact
   K Royal, TrustArc
2. The Civilian Use of Drones at EU Borders: Legal Issues, the Impact on Privacy and a Privacy by Design Approach
   Panagiotis Loukinas, Queen's University Belfast, United Kingdom
3. Transcending Cyber/Privacy/Compliance Silos with a Corporate Compliance Framework
   Paul Flanagan, Thomas R. Kline School of Law, Drexel University
   Richard Monette, University of Wisconsin School of Law

Concurrent Session 1.4: Gene Editing and Synthetic Biology
Room 550
1. The Challenges of Synthetic Biology and Digital Sequence Information for the Principles and Structures of the International Treaty for Plant Genetic Resources for Food and Agriculture
   Todd Kuiken, North Carolina State University
2. How Gene Editing Reveals Regulatory Loopholes in the New GMO Labeling Law
   Paul Enriquez, North Carolina State University
3. Biosecurity in the Age of Genome Editing: Exploring the Risks, Benefits, and Governance Options
   Sarah Welch Denton, George Mason University
4. Enhancing Biosafety and Biosecurity across International Borders
   Irene Mendoza, Arizona State University
5. Synthetic Biology Regulation and the Assurance Timeline
   Justin Firestone, University of Nebraska
Concurrent Session 2.1: Blockchain, IoT and Personal Data
Room 150
1. Incorporating Blockchain into the Biosciences: What are we waiting for?
   Dov Greenbaum, IDC, Herzliya
2. Privacy, Anonymity, and the Myth of Decentralization: Challenges of Blockchain
   Technology in Light of EU Data Protection Law
   Martinho Lucas Pires, Nova Law School Lisbon, Portugal
3. Who Owns the Health Data on the Blockchain?
   Patricia Velarde Burnett, Weiss Brown & Gary Marchant, Arizona State University
4. Decentralized Governance and Reputation in Multi-Agent Systems: Hyper-
   Transparency, Social Impact Platforms, Tokenized Capitalism and Alternative
   Economic Models on the Blockchain
   Tomas Vba, Arizona State University

Concurrent Session 2.2: Autonomous Weapons Systems
Room 250
1. The Privatization of Expertise: Analyzing the Role of the Private Sector in the
   Governance of Autonomous Weapons Systems
   Sophie-Charlotte Fischer, ETH Zurich
2. Autonomous Weapons Systems and the Search for New Forms of Public
   Accountability
   Laura A. Dickinson, George Washington University Law School
3. Autonomous Weapons Systems: An Incoherent Category
   Brad Allenby, Arizona State University

Concurrent Session 2.3: Medical Internet of Things
Room 450
1. The Food and Drug Administration and the Regulation of the Internet of
   Therapeutic Things (IoTT)
   David Feigal, Arizona State University
2. Securing the "Internet of Persons": Critical Infrastructure Protection
   Janine S. Hiller, Virginia Tech
3. The Internet of Bodies
   Andrea M. Matwyshyn, Northeastern University
4. Regulating the Mining of Consumer Medical Data from Internet of Things (IoT) Devices
   Mason Marks, Yale Law School

Concurrent Session 2.4: Biotechnology and Public Engagement
Room 550
1. Biotechnology: The Need for Acknowledging Disagreement
   Ruth Mampuys, The Netherlands Commission on Genetic Modification
2. Engaging the Public: Understanding Consumer Perceptions of Risk in Various
   Areas of Biotechnology
   Joanna K. Sax, California Western School of Law
3. Synthesizing Engagement for Synthetic Biology Governance
   Adam Kokotovich, North Carolina State University
4. Public Outreach and Community Engagement for Genetically Engineered
   Mosquitoes: Lessons from Oxitec and Mosquito Mate
   Cynthia E. Schairer, University of California, San Diego

3:15–3:30 p.m. Break
3:30–5:00 p.m. Plenary Session 2: Success Stories in Public Engagement – A
   Frankenstein Case Study
   W. P. Carey Foundation Armstrong Great Hall
   Moderator: David Guston, School for the Future of Innovation in Society, ASU
   • Ed Finn, Center for Science and the Imagination, ASU
   • Ruth Wylie, Center for Science and the Imagination, ASU
   • Judith Guston, Rosenbach Museum and Library
   • Travis Rich, MIT Media Lab

5:00–5:45 p.m. Keynote: How the EU is Dictating Online Speech Norms and What
   Silicon Valley Can Do About It
   Danielle Keats Citron, Morton & Sophia Macht Professor of Law, University of
   Maryland Carey School of Law
   W. P. Carey Foundation Armstrong Great Hall
### Concurrent Session 3.3: Soft Law

**Room 450**

1. **Law Cannot Be Soft, Only Vague**  
   Joseph D’Agostino, Savannah Law School
2. **Evolving Evidence Standards for Rare Diseases in Precision Medicine: The Role of Soft Law, Regulation and Governance**  
   Amalia M. Issa, USP
3. **Global Governance Artificial Intelligence: Soft Law Solutions for a Technology in Flux**  
   Lucy Tournas, Arizona State University
4. **Enforcing Soft Law**  
   Gary Marchant, Arizona State University

### Concurrent Session 3.4: Technology and New Divisions at National Security

**Room 550**

1. **2050 Strategic Security: Future Imperfect**  
   Ina Wanca, NYU
2. **Who Should Control Attempts to Message Alien Worlds?**  
   Kelly C. Smith, Clemson University
3. **Identity as Design Platform and Battlespace**  
   Brad Allenby, Arizona State University
4. **Emerging Technologies and the Weapons Review Process**  
   Eric Talbot Jensen, Brigham Young University Law School

### Plenary Session 3: Success Stories in “Soft Law”

**W. P. Carey Foundation Armstrong Great Hall**

**Moderator:** Craig Shank, Microsoft

- **Diana Bowman,** Center for Law Science and Innovation/School for the Future of Innovation in Society, ASU
- **Ryan Hagemann,** Niskanen Center
- **Gary Marchant,** Center for Law, Science and Innovation, ASU
- **Marc Saner,** University of Ottawa

### Algorithmic Decision-Making

**Room 150**

1. **Regulatory Architectures for Disruptive Technologies: Algorithmic Citizenship, Datafication and the Tyranny of Scoring**  
   David Levi-Faur, Hebrew University
2. **Artificial Intelligence in the Court: Black Box, Due Process, and the Need for Greater Algorithmic Accountability**  
   Ching-Fu Lin, National Tsing Hua University
3. **Self-Driving Cars and Responsible Innovation**  
   Miklos Lukovics, University of Szeged Hungary
4. **Public Shaming in the Global Village**  
   Jeremy Weissman, University of South Carolina

### Healthcare and Technology

**Room 250**

1. **Development of a Genomic Orientation Scale: Is a Healthy Amount of Skepticism Necessary for Good Biobank Governance?**  
   Caroline Horrow, Mayo Clinic
2. **Smartphone Applications as Adjuncts to Medical Devices: A Case Study in Health Regulation**  
   Ibrahim Garba, University of Arizona
3. **The Dark Side of Patient Advocacy? Does the Role Expansion of Disease Advocacy Organizations Warrant Greater Governance?**  
   Christina Nyquist, Mayo Clinic; Caroline Horrow, Mayo Clinic
4. **Recreational Genetic Testing – Legal and Ethical Issues**  
   Carol D. Scott, Law Offices of Carol D Scott

### Day 2

**Thursday, May 17**

**8:00–8:30 a.m.**  
**Breakfast**  
W. P. Carey Foundation Armstrong Great Hall, 2nd floor

**8:30–10:00 a.m.**  
**Plenary Session 3: Success Stories in “Soft Law”**  
W. P. Carey Foundation Armstrong Great Hall

**10:00–10:15 a.m.**  
**Break**

**10:15–11:45 a.m.**  
**Concurrent Session 3.1: Algorithmic Decision-Making**  
Room 150

**10:15–11:45 a.m.**  
**Concurrent Session 3.2: Healthcare and Technology**  
Room 250

**11:45 a.m.–12:45 p.m.**  
**Lunch**  
W. P. Carey Foundation Armstrong Great Hall, 2nd floor

**12:45–1:30 p.m.**  
**Keynote:** Machine Learning In a Global Context, Whose Rights Are At Risk?  
Erica Kochi, Co Founder, UNICEF Innovation  
W. P. Carey Foundation Armstrong Great Hall

**1:30–3:00 p.m.**  
**Plenary Session 4: The Most Important Emerging Technology Is…**  
W. P. Carey Foundation Armstrong Great Hall

**Moderator:** Brad Allenby, Fulton School of Engineering, ASU

- **Gillian K. Hadfield,** USC Gould School of Law (AI)
- **Caterina Rindi,** Blockchain Educator, Consultant, Public Speaker (Blockchain)
- **Genya Dana,** World Economic Forum (synthetic biology)
- **Justin (Gus) Hurwitz,** University of Nebraska College of Law (IoT)
Day 2
Thursday, May 17

3:00–3:15 p.m.  Break

3:15–4:45 p.m.  Concurrent Session 4.1: AI and Law
Room 150
1. The Robot Koseki – Using Japanese Family Law as a Model for Regulating Robots
Colin P.A. Jones, Doshisha University Law School (Kyoto, Japan)

2. The Impact of Foreseeability Factor when Creating Law of Artificial Intelligence
Tjasa Zapusek, University of Copenhagen

3. Incomplete Contracting and AI Alignment
Gillian K. Hadfield, University of Southern California

4. 2018 A Legal Research Odyssey
Jamie Baker, Texas Tech University School of Law

Concurrent Session 4.2: Big Data & Privacy
Room 250
1. Fog Computing in the Field: The Development of IoT Governance
Mark Perry, University of New England

2. Regulating Technological Resistance to Government Surveillance
Alan Z. Rozenshtein, University of Minnesota Law School

3. Internet of Things and Challenges to Insurance Sector
Rujitha Shenoy, Cochin University, Luciprs, India

4. Social Impact of Emerging Technologies; The Smart City Context
Luciano C. Oviedo, Warwick Business School & Sarma Vrudhula, Arizona State University

Concurrent Session 4.3: Human Gene Editing & Enhancement
Room 450
1. Governance Challenges raised by Germline Gene-Editing: A Canadian Case Study
Vardit Ravitsky, University of Montreal

2. The New Era of Gene Therapy and the Challenges of Equitable Access and Diversity
Bob Bohrer, California Western School of Law

3. Cyborgs — Should We be Better Than We Are?
Victoria Sutton, Texas Tech University School of Law

4. AI and Democratization of Genomics for the Regenerative Generation
Natasha Vita-More, Humanity+, Inc

Concurrent Session 4.4: Risk Governance
Room 550
1. Regulating IOT Nutrition Devices
Richard Williams, Mercatus Center at George Mason University

2. Emerging Risk Governance for Solar Radiation Management
Tyler Felgenhauer, Duke University

Adam M. Finkel, University of Michigan School of Public Health

4. The Case for Robust Climate Policy
Leslie Paul Thiele, University of Florida

4:45–6:30 p.m.  Poster Presentation & Reception
Room 544 / Ak-Chin Indian Community Conference Center and Fort McDowell Yavapai Nation Courtyard

8:00–8:30 a.m.  Breakfast
W. P. Carey Foundation Armstrong Great Hall, 2nd floor

8:30–9:15 a.m.  Keynote: Artificial Intelligence to Collective Intelligence: Open Governance and New Technologies
Beth Simone Noveck, Governance Lab (GovLab) & Professor in Technology, Culture, and Society at New York University's Tandon School of Engineering

9:15–10:45 a.m.  Concurrent Session 5.1: Blockchain and Governance
Room: 150
1. Banking on Blockchain: Distribution, Democratization or Disruption
Kristin N. Johnson, Tulane University Law School

2. The Arc of the Moral Universe is Long, but it Bends Towards – the Block Chain or a Wilderness of Mirrors?
Greg Garvey, Quinipiac University

3. Corporate Governance Guideposts for Distributed Ledger Technology
Carla L. Reyes, Stetson University College of Law

Sarah Manski, University of California Santa Barbara

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Carla L. Reyes, Stetson University College of Law

Sarah Manski, University of California Santa Barbara
11:00 a.m.–12:30 p.m. Plenary Session 5: Innovations in Health Technology
W. P. Carey Foundation Armstrong Great Hall
Moderator: Jason Robert, Lincoln Center for Applied Ethics, ASU
- Making Precision Medicine A Reality: Molecular Diagnostics, Remote Health Status Monitoring and the Big Data Challenge
  George Poste, Center for Complex Adaptive Systems, ASU
- Your Body and Your Brain “At Risk” – The Business of Recalling Biomedical Implants
  Katina Michael, School of Computing and Information Technology, U. of Wollongong
- Dr. Robot
  Jane Bambauer, James E. Rogers College of Law, University of Arizona
- A Case Study: Development of a Novel Prosthetic Heart Valve
  Geoff D. Moggridge, Cambridge University

Concurrent Session 5.2: The Pacing Problem
Room: 240
1. DELTA: The Law of Technological Change
   Joshua A.T. Fairfield, Washington and Lee University School of Law
2. The Pacing Problem Revisited: Why do Regulations Lag Behind?
   Marc Saner, University of Ottawa
3. Liberalism in the Digital Age—How to Safeguard Democracy in the Age of Big Tech
   Scott Nuzum, Van Ness Feldman LLP
4. Accelerating Technological Evolution and the Death of Institutions
   Brad Allenby, Arizona State University

Concurrent Session 5.3: Accountability of Autonomous Systems
Room: 250
1. How to Sue a Robot
   Roger Michalski, University of Oklahoma College of Law
2. Compensation at the Crossroads: Autonomous Vehicles and Alternative Victim Compensation Schemes
   Tracy Pearl, Texas Tech University School of Law
3. Navigating an Uncertain Legal and Regulatory Path Forward for Automated and Connected Vehicles
   Gregory Rodriguez, Best Best & Krieger
4. Responsibility Sensitive Safety: Towards a Meaningful Definition of Safety for Autonomous Vehicles
   Rida Bazzi, Arizona State University

Concurrent Session 5.4: International Governance and Data
Room: 550
1. The Openness of the Internet
   Olli Honkkila, University of Helsinki
   Tabrez Ebrahim, California Western School of Law
3. The Internet of Doing Things
   Oyeniji Oluyinka, FIRST CHRONICLES LP

10:45–11:00 a.m. Break
Save the Date

May 22-24, 2019

Mark your calendar for the 7th Annual Conference on Governance of Emerging Technologies & Science: Law, Policy and Ethics and stay informed by visiting events.asucollegeoflaw.com/gets/

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