The 46th Research Conference on Communications, Information and Internet Policy
September 21-22, 2018
Hosted by American University Washington College of Law
Washington, DC

Thursday, September 20
Pre-Conference Session
10:30 am Graduate Student Consortium
(by invitation)
11:30 am Capitol Hill Briefing and Lunch

Friday, September 21
8:00 am Registration and Continental Breakfast
9:00 am Paper Sessions outlined in grid
10:00 am Coffee Break
11:15 am Paper Sessions outlined in grid
12:45 pm Lunch and Keynote Speaker
   The Honorable Maureen Olhausen, Commissioner, FTC
2:15 pm Panel Sessions outlined in grid
3:45 pm Coffee Break
4:10 pm Paper Sessions outlined in grid
5:50 pm Reception and Poster Session
7:00 pm Dinner and Keynote Speaker
   Dr. Jim Kurose, Asst Director for Artificial Intelligence, OSTP

Saturday, September 22
8:00 am Registration and Continental Breakfast
9:00 am Paper Sessions outlined in grid
10:40 am Coffee Break
11:10 am Paper Sessions outlined in grid
12:50 pm Lunch and Student Paper Awards
   Presentation of the Charles Benton Junior Scholar Award
2:00 pm Paper Sessions outlined in grid
3:40 pm Coffee Break
4:05 pm Paper Sessions outlined in grid
5:45 pm Closing Reception

Conference Information

NOTE NEW LOCATION:
The 46th Annual Telecommunications Policy Research Conference will be held at American University’s Washington College of Law (WCL), 4300 Nebraska Ave NW, Washington DC 20016.

Located in Washington, D.C’s historic Tenleytown neighborhood, WCL’s 8.5 acre campus offers state-of-the-art facilities to host this year’s TPRC. TPRC is pleased to announce a new relationship with AUWCL and we look forward to utilizing the excellent facilities.

Hotel Information
Washington, DC offers numerous options for lodging accommodations for those visiting from out of the area.

TPRC has a block of rooms at the Courtyard by Marriott Chevy Chase for $129.00 USD per night. It is first come, first served basis with the block expiring August 20. Book your group rate for WCL TPRC46. Additional information is on our web site.

Conference Registration
Online registration is available at www.tprcweb.com.

Conference Fees

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<th>Before Aug. 31</th>
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<td>Student</td>
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<td>Authors/Co-Authors</td>
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<td>Academic, Gov’t, Nonprofit</td>
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Registration fees cover all conference sessions, conference materials, continental breakfasts, lunches, dinner and coffee breaks.

An additional $100 will be charged for on-site registration.

Follow us on Twitter @tpctweets #TPRC46

Continuing Legal Education (CLE) Credits

Each year, TPRC applies for CLE accreditation from Pennsylvania and Illinois. Registered legal professionals can earn up to 14 hours of credits. CLE program is included in registration fees.

TPRC46 September 21-22, 2018
August 29, 2018 – Program Subject to Change
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<tr>
<td>USDA’s Rural Utilities Service and Rural Broadband: A Multistakeholder Approach to American Broadband Policy, Christopher Ali, University of Virginia</td>
<td>NewSpace Spectrum Sharing: Assessing Interference Risk and Mitigations for New Satellite Constellations, Susan Tonkin; Jean Pierre de Vries, University of Colorado at Boulder Law School - Silicon Flatirons Center</td>
<td>Roles for Policy-Makers in Emerging Cyber Insurance Industry Partnerships, Josephine Wolff, Rochester Institute of Technology; William Lehr, Massachusetts Institute of Technology CSAIL</td>
<td>Building a Digital Twin: Testing the Effectiveness of Telecommunication Policies in a Virtual World, Edward Oughton, Judge Business School, University of Cambridge</td>
<td>The Evolution of Broadband Competition in Local US Markets: A Distributional Analysis, Kenneth Flamm, University of Texas at Austin; Pablo Varas, University of Texas at Austin</td>
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<td>The Effect of Institutions, on the Access and Adoption of Telecommunication Services in Mexico, 2013-2018, Christina Casanueva-Reguart, Universidad Iberoamericana</td>
<td>Sophisticated Spectrum Sharing Analysis: The Case of the 5.9 GHz Band, Yimin Pang, University of Colorado, Boulder; Joey Padden, CableLabs; Rob Alderfer, CableLabs</td>
<td>Consumer-ISP Security Notification and Remediation Strategies: An International Analysis, Nathaniel Fruchter, MIT; Steven Bauer, MIT</td>
<td>Telecom Deja Vu: A Model for Sharing in Broadband Access, Douglas Sicker, Carnegie Mellon University; William Lehr, Massachusetts Institute of Technology CSAIL</td>
<td>The Low Capital Intensity of Telecommunications and its Business and Policy Implications, Andrew Odlyzko, University of Minnesota - Twin Cities</td>
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<td>11:05-12:45 pm</td>
<td>Last-Mile Connectivity Deployments in the Global South: An Exploratory Study of the Sustainability of New Business Models</td>
<td>Sharada Srinivasan, University of Pennsylvania Law School</td>
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<td>The Impact of Technology Procurement Regulations on Social Value and National Competitiveness</td>
<td>Frank Nagle, University of Southern California</td>
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<td>Can Social Media Help Build Communities?</td>
<td>Eric Forbush, University of Pennsylvania; Nicol Turner-Lee, Brookings Institute</td>
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<td>A Study of Spatial Differentiation in Online Personal Health</td>
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<td>Realization of Rural Agricultural and Non-Agricultural Populations</td>
<td>Peter L. Stenberg, U.S. Department of Agriculture</td>
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<td>Keep Calm and Fight on: A Comparative Study of Network Neutrality in the United States, South Korea and Israel</td>
<td>Sangyong Han, University of Pennsylvania Law School; Amit M. Schejter, Ben-Gurion University of the Negev</td>
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<td>How Public Should Public Data Be? Privacy &amp; E-Governance in India</td>
<td>Chintan Vaishnav, Massachusetts Institute of Technology; Karen Solons, Massachusetts Institute of Technology; Nikita Kodali, Massachusetts Institute of Technology</td>
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<td>Public Understanding of Algorithms and Trust in Platforms</td>
<td>Grant Blank, University of Oxford - Oxford Internet Institute; Bianca Reisdorf</td>
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<td>Interactivity, Awareness, and Adoption: The Impact of Mobile Phones on Agricultural Innovation in Africa</td>
<td>Heather Hudson, University of Alaska Anchorage</td>
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Zero-Rating and Net Neutrality in the Mobile Market: The Case of Japan, Toshiya Jitsuzumi, Chuo University

Whispering Into Princes’ Ears: An Empirical Analysis of Ex Parte Meetings at the Federal Communications Commission, Adam Candeub, Michigan State University College of Law; Sherrod Blankner, Phlebas Consulting

Reviewing a Historical Internet Vulnerability: Why Isn’t BGP More Secure and What Can We Do About it?, Cecilia Testart, Massachusetts Institute of Technology


Decomposing the ICT Use Gender Gap for Five Latin American Countries Roxana Barrantes, Pontificia Universidad Católica del Perú – PUCP; Aileen Aguero Garcia, Instituto de Estudios Peruanos; Paulo Matos, Instituto de Estudios Peruanos

Panel Sessions

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<td>The State of Children’s Media</td>
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<td>NT07</td>
<td>Mobile Communications, the Internet and the Digital Economy: Comparisons and Lessons from Four Major Developing Countries - China, India, Mexico and Brazil</td>
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<td>NT01</td>
<td>Algorithmic Bias Detection and Mitigation: Developing Industry Best Practices</td>
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Friday 2:15-3:45 pm

Broadband 4 NT0

Spectrum 2 Y403

Innovation and intellectual Property 1 Y402

Emerging Technologies 2 NT0

Competition Policy 2 Y116

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<tr>
<td>Jason Whalley Northumbria University</td>
<td>Mobile Communications, the Internet and the Digital Economy: Comparisons and Lessons from Four Major Developing Countries - China, India, Mexico and Brazil</td>
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<td>Scott Wallsten, TPI</td>
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<td>Algorithmic Bias Detection and Mitigation: Developing Industry Best Practices</td>
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<td>Adam Candeub, Michigan State</td>
<td>'Am I an Algorithm or a Product?: When Products Liability Should Apply to Algorithmic Decision-makers, Karni Chagal, University of Haifa, Faculty of Law</td>
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<td>Silvia Elaluf Calderwood, Florida International University</td>
<td>Bit-by-Bit Towards Unlimited: An Analysis of Zero Rating and Sponsored Data Practices of Internet Service Providers, Daniel Schnurr, University of Passau; Lukas Wiewiorra, Daniel Wieland, Technische Universität Dresden</td>
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4:10-5:50 pm

Characterizing and Improving the Reliability of Broadband Internet Access, Zachary Bischof, Northwestern University; Fabian Bustamante, Northwestern University; Mobile Investment and Traffic per Capita Tend to Increase with License Duration, François Jeanjean, France Telecom - Orange Group; Marc Lebourges, France; Is Faster Better? Quantifying the Relationship between Broadband Speed and Economic Growth, George S. Ford, Phoenix Center for Advanced Legal &
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Institution</th>
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<tr>
<td>Wireless Network Recovery following Natural Disaster: Puerto Rico after Hurricane Maria</td>
<td>Carleen Maitland, William McHenry, John Pradkin, Yuri Baltra, Guilleramo Betran, Fernando Betran, University of Auckland</td>
<td>Carnegie Mellon University</td>
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<td>Modelling the Impact of Spectrum Sharing on Spectrum Value: The US Citizen Broadband Radio Service Ecosystem</td>
<td>Marcela Gomez, University of Pittsburgh; Martin B. H. Weiss, University of Pittsburgh; William Lehr, Massachusetts Institute of Technology; Giulia McHenry, National Telecommunications and Information Administration</td>
<td>Carnegie Mellon University</td>
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<td>Technology Change and Its Impact on Labor Markets: A Historical Perspective</td>
<td>Martha Garcia-Murillo, Syracuse University - School of Information Studies; Ian MacInnes, Syracuse University</td>
<td>Carnegie Mellon University</td>
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<td>Can a Machine Learn Under the GDPR?</td>
<td>Joel Thayer, ACT; Bijan Madhani, CCIA</td>
<td>Prieger College</td>
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<td>The Policy Potential of Measurements of Internet Outages</td>
<td>John, Heidemann, USC; Yuri Pradkin, USC; Guilleramo Baltra, USC</td>
<td>USC</td>
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<td>Spectrum Valuation: Implications for Sharing and Secondary Markets</td>
<td>Marcela Gomez, University of Pittsburgh; Martin B. H. Weiss, University of Pittsburgh; William Lehr, Massachusetts Institute of Technology; Giulia McHenry, National Telecommunications and Information Administration</td>
<td>USC</td>
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<td>The Importance of Broadband and Other Infrastructure for Entrepreneurship</td>
<td>James Prieger, Pepperdine University</td>
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<td>Mobile Privacy and Business-to-Platform Dependencies: An Analysis of SEC Disclosures</td>
<td>Ronan Fathaigh, University of Amsterdam - Institute for Information Law; Joris van Hoboken, University of Amsterdam - Institute for Information Law (IViR); N.A.N.M. van Eijk, Institute for Information Law (IViR)</td>
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<td>Two-Sided Internet Markets and the Need to Assess Both Upstream and Downstream Impacts</td>
<td>Rob Frieden, Pennsylvania State University</td>
<td>USC</td>
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**Poster Session** Friday, September 21, 5:45 – 6:45 pm

- **Comparative Study of the Development of Ott-V Markets between the Us and Japan**, Yoko Nishioka
- **Demand Side Subsidies and Universal Access to Basic Communication Services: Lessons from Lifeline in Puerto Rico’s Economic Recovery**, Carmen Scurato; Reza Rajabiun
- **Factors Affecting IPv6 Deployment**, Brenden Kuerbis, Georgia Institute of Technology - School of Public Policy
- **Improving Spectrum Enforcement Through Enhanced Identification**, Rohit Singh, Carnegie Mellon University, Department Engineering and Public Policy; Douglas Sicker, Carnegie Mellon University
**Spatial Patterns and Socioeconomic Influences on m-Commerce and m-Entertainment Usage in U.S. Counties**, Avijit Sarkar, University of Redlands - School of Business; James B. Pick, University of Redlands

**Spectrum Sharing Measurements in 7 and 13 GHz Bands**, Nadia Yoza-Mitsubishi University of Colorado at Boulder, Interdisciplinary Telecommunications Program, Ken Baker, University of Colorado at Boulder

**Trust and Confidence in a Secure Internet: A Public Good**, Prabir K. Neogi, Carleton University - Canada-India Centre of Excellence in Science, Technology, Trade and Policy; Arthur Cordell, Carleton University; Donald MacLean

Understanding Digital Inclusion in Classrooms of Bangladesh: What Works, What Doesn't Work, and What Can We Learn from the Users? Moinul Zaber, University of Dhaka; Ali Aman, University of Dhaka; Sayed Md Abu, University of Dhaka; Ahmed Bulbul, University of Dhaka

**The Economic Importance of Unlicensed Spectrum in the Case of 5.9 Ghz**, Diana Carew, RAND

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**Paper Sessions Saturday, September 22**

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<th>Internet Governance Nt07</th>
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<td><strong>Moderator</strong></td>
<td>John Horrigan Technology Policy Institute</td>
<td>Jon Peha, Carnegie Mellon University</td>
<td>Hannah Quay-de la Vallee CDT</td>
<td>Milton Mueller, Georgia Tech</td>
<td>Jonathan Levy, FCC</td>
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9:00-10:40

**An Evaluation of the Connected Nation Broadband Adoption Program**, Jacob Manlove, Oklahoma State University - Stillwater Student Paper winner

Agent-Based Modeling Approach for Developing Enforcement Mechanisms in Spectrum Sharing Scenarios: An Application for the 1695-1710mhz Band, Pedro Bustamante, University of Pittsburgh; Marcela Gomez, University of Pittsburgh; Martin B. H. Weiss, University of Pittsburgh; Debarun Das

Awakening Global Governments: An International Survey of Internet of Things Regulation, Mark Walker, CableLabs; Kelton Shockey; Andrew Neiman; Ashtyn Stephan

Hiding in the Open (Part II): How Tech Network Policies Can Inform 'Openness by Design' (and vice versa), Richard S. Whitt, Netsedge

Understanding the Gender Digital Divide: Social Norms and the USAID WomenConnect Challenge, Thomas Koutsky, USAID Global Development Lab; Revi Sterling, USAID

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**Is the 2014 E-Rate Reform a Game Changer? An Empirical Analysis of**

On the Application of Blockchain to Spectrum

Towards a Smart Policy Framework for Fostering IoT Innovation and

The Legal Roots and Moral Core of Digital Consent Meg Leta

Urban Poverty and the Internet: Libraries, Information Needs,
Pennsylvania Data, Jenna Grzeslo, Pennsylvania State University; Yang Bai, Pennsylvania State University; Min Bumgi, Pennsylvania State University; Krishna Jayakar, Pennsylvania State University

Management, Kevin D. Werbach, University of Pennsylvania, The Wharton School; Martin B. H. Weiss, University of Pittsburgh; Douglas Sicker, Carnegie Mellon University; Carlos Caicedo, Syracuse University

Adoption: Analysis of Field Interviews and Public Comments, Gwanhoo Lee, American University

Jones, Georgetown University; Elizabeth Edenberg, Georgetown University

Technology and Local Policy, Sharon Strover, University of Texas at Austin

Who Gets Broadband When? A Panel Data Analysis of Demographic, Economic and Technological Factors Explaining U.S. Broadband Deployment, Henning Schulzrinne, Columbia University; Vamsi Gadiraju, Columbia University; Panat Anthony, Columbia University; Sam Kececi, Columbia University

Techno-Economics of Licensed Shared Access with Mobile Network Operators Leasing Spectrum to PMSE Users, Andra Voicu, RWTH Aachen University - Institute for Networked Systems; Shaham Shabani, RWTH Aachen University; Douros Vaggelis, RWTH Aachen University; Ljiljana Simic, RWTH Aachen University; Petri Mähönen, RWTH Aachen University

Regulating the IoT: Discrimination, Privacy, and Cybersecurity in the Artificial Intelligence Age, Charlotte Tschider, Mitchell Hamline School of Law

Whither the Public Internet?, William Lehr, Massachusetts Institute of Technology (MIT) - Computer Science and Artificial Intelligence Laboratory (CSAIL); David D. Clark, MIT CSAIL; Steven Bauer, Massachusetts Institute of Technology (MIT) - Laboratory for Computer Science (LCS); Arthur Berger, Massachusetts Institute of Technology (MIT)

Take Home Technology: Bridging the Homework Gap for American Children, Alexis Schrubbe, University of Texas at Austin

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<td>Tom Hazlett, Clemson University</td>
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<td>Mark Walker, CableLabs</td>
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Saturday

Panel Sessions

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<td>Internet Governance Policy Research Impacts: Mapping, Methods, &amp; Messages</td>
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<td>What Can Regulation Learn from Antitrust? And Vice Versa?</td>
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<td>Innovative Approaches to Connecting the Unconnected</td>
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<th>Emerging Technologies 3</th>
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<td>Carolyn Gideon</td>
<td>Jason Weil, Samknows</td>
<td>Ross Schulman, New America</td>
<td>Roslyn Layton, Aaborg University</td>
<td>Giulia McHenry, NTIA</td>
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4:00-5:40

Federalism, Preemption, and the Future of State Regulation of Internet Protocol-based

Detecting Internet Congestion at Interconnection Points: An Empirical

From Lofty Guarantees to Basic Protections: Benchmarking Privacy and Data Protection

What Insights Can the Network Neutrality Debate Contribute to the Competition Regulation

Fiber to the Countryside: A Comparison of Public and Community
Mobile Communications, the Internet and the Digital Economy: Comparisons and Lessons from Four Major Developing Countries - China, India, Mexico and Brazil

This panel will focus on the impact of the widespread penetration and use of intelligent mobile devices in major developing countries, specifically China, India, Mexico and Brazil.
Moderator: Prabir Neogi, Carleton University

Panelists:
Erik Bohlin, Chalmers University of Technology, Sweden
Rekha Jain, Indian Institute of Management, Ahmadabad
Krishna Jayakar, Co-Director, Institute for Information Policy
Donald P. Bellisario, Pennsylvania State University
Judith Mariscal Aviles, Centro de Investigacion y Docencia Economica
Roxana Barrantes Caceres, Pontificia Universidad Católica del Perú – PUCP

The State of Children’s Media The objective of this panel is to examine trends in children's media and to identify regulatory or other means of nurturing and protecting children.

Moderator: Cecilia Kang, New York Times

Panelists:
Angela Campbell, Georgetown University Law School
Elizabeth Handsley, Flinders University in Australia
Susan Linn, Boston Children’s Hospital
Victoria Phillips, American University Washington College of Law

Algorithmic Bias Detection and Mitigation: Developing Industry Best Practices This panel will present the findings from a multidisciplinary research project, that includes industry and academic experts, to explore algorithmic fairness and accountability. Relying upon data collected from structured focus groups with policymakers and data scientists, the research compiles best practices, including scientific procedures, that sufficiently identify bias at the onset, and apply appropriate mitigation strategies.

Moderator: Chandra Marlow, Fellow, Future of Privacy Forum

Panelists:
Genie Barton, Privacy Genie
Dr. Paul Resnick, University of Michigan
William Rinehart, Director of Technology and Innovation Policy, American Action Forum
Dr. Nicol Turner Lee, Center for Technology Innovation, Brookings Institution

Saturday Panel Sessions, 2:00 pm

internet Governance Policy Research Impacts: Mapping, Methods, & Messages The ultimate aim of this panel is to help shape future research agendas/research approaches to craft both methods and messages that can be of use to researchers and policy makers globally and locally. It should serve as a catalyst for the TPRC participants (whether researchers or policy makers or practitioners) to take away strengths and weaknesses of multi-disciplinary and collaborative research approaches in terms of possible impacts on policy and practice and to identify novel research approaches that can incorporate policy makers, practitioners, and researchers to strengthen policy impacts especially in controversial internet governance arenas.

Moderator: Nanette S. Levinson, American University
Innovative Approaches to Connecting the Unconnected This panel will assess the state of the empirical literature, discuss various innovative demand- and supply-side strategies to connect unconnected communities, and present preliminary findings of ongoing efforts to assess different approaches to promoting connectivity.

Moderator: Sharada Srinivasan, University of Pennsylvania Law School

Panelists:
- Bronwyn Howell, Victoria University of Wellington
- Rekha Jain, Indian Institute of Management, Ahmedabad
- Samia Melham, World Bank
- Revi Sterling, USAID
- Christopher Yoo, University of Pennsylvania
- Erin Troland

What Can Regulation Learn from Antitrust? And Vice Versa? The purpose of this panel is to look more broadly at the lessons from the history of both antitrust action and telecommunications regulation to ask not whether one is better than the other but, rather, what each can learn from the other.

Moderator- Jamillia Ferris, former chief of staff to the Antitrust Division, who managed the FCC staff review of the AT&T/ DirecTV merger

Panelists:
- Jonathan Baker, antitrust economist and former Director of the FTC’s Bureau of Economics and Chief Economist of the FCC, American University Washington College of Law
- William Kovacic, former Chairman, FTC
- Roslyn Layton, regulatory economist and expert in telecommunications at the American Enterprise Institute
- Jonathan Sallet, former FCC general counsel and former deputy assistant attorney general in the antitrust division
- Howard Shelanski, former head of OMB’s OIRA, Director of the FTC’s Bureau of Economics, and Chief Economist at the FCC