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## TPRC 2005 Program

### Friday, September 23, 2005

1:00 pm **Registration**

Atrium

2:00 pm –  
3:30 pm

Room 225

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### **Tutorial: The European Union's Communications Regulatory Framework**

- The "co-decision process" and the roles of the European Commission, European Parliament, and Council of Ministers in adopting new Directives.
- The basic principles underlying the new framework:
  - Proportionality
  - Preference for competition law where possible
  - Preference for wholesale rather than retail regulation
  - Markets "susceptible" to ex-ante regulation
  - Technological Neutrality
  - Significant Market Power (SMP)
  - Treatment of emerging markets
  - Veto powers of the European Commission.
- The Framework Directive
  - Duties of National Regulators
  - Right of Appeal
  - Market analysis procedures
  - The "Article 7" notification process
- The Access and Interconnection Directive (Wholesale level)
  - The 5 "remedies" available to the regulators
- The Universal Service and Users Rights Directive (Retail level)
- A quick look at the Directives on licensing, and communications privacy.
- And finally a brief survey of national regulatory decisions on SMP, highlighting areas where the Commission has intervened to veto a national decision.

Presenter: Martin Atherton, *British Telecom*

2:00 pm –  
3:30 pm

Room 221

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### **Panel: Mergers**

The communications industry has recently experienced a number of mergers in the wireline, wireless, and cable segments of the industry. This panel will consider how growing consolidation might affect competition, competition policy, policy toward future mergers, state and federal regulators, as well as possible revisions to the Telecommunications Act of 1996.

Moderator: Debra Aron, *LECG*

Panelists:

Jeff Mackie-Mason, *University of Michigan*

Martin Perry, *Rutgers University*

Jon Neuchterlein, *Wilmer Culter Pickering Hale and Dorr*

4:00 pm –  
5:30 pm  
Room 225

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### **Panel: The Future of File Sharing after Grokster**

The Grokster case will almost undoubtedly represent a watershed for the future of both intellectual property and the Internet. Not only will it redefine the scope of contributory infringement under the copyright laws; it will also have a dramatic impact on a wide range Internet-based business models. This panel of distinguished academics will offer their insights into the future of file sharing and the Internet in a post-Grokster world.

Moderator: Stanley Besen, *CRA International*

Panelists:

Julie Cohen, *Georgetown University*

David Farber, *Carnegie Mellon University*

Randall Picker, *University of Chicago*

Stan Liebowitz, *University of Texas-Dallas*

4:00 –  
5:30 pm  
Room 221

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### **Panel: ICT's and the Community**

The past decade has seen significant public financial support in North America and elsewhere for a variety of programs aimed at the community use of information/communications technologies (ICTs) and particularly focused on closing the 'digital divide' by widening internet access. There are, however, clear signs that these programs have lost favor with legislators. This panel brings together six leading experts on the topic of ICTs and the community to discuss the track record of these programs, identify shortcomings, and explore future options.

Moderator: Andrew Clement, *FIS, University of Toronto*

Panelists:

Michael Gurstein, *Central Queensland University*

Sharon Strover, *University of Texas*

Heather Hudson, *University of San Francisco*

Anthony Wilhelm, *Universal Service Administrative Company*

5:30 pm  
Atrium

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### **TELECOM ACT OF 2007?**

In February of next year, we will celebrate the 10th anniversary of the Telecommunications Act of 1996. It has a profound impact--both good and bad--on the US telecommunications industry. Which parts of the legislation worked as expected? Which didn't? Is a rewrite of the Telecommunications Act needed? Is it politically possible? Reed Hundt was Chairman of the Federal Communication Commission when the 1996 Act was written and oversaw the drafting of most of the regulations that implemented it. Richard Wiley is also a former FCC Chairman and is one of the best-known and influential telecommunications lawyers in Washington.

**Reed Hundt**, *Charles Ross Partners, LLC*

**Richard Wiley**, *Wiley Rein & Fielding LLP*

6:30 pm

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### **Reception**

7:00 pm

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### **Dinner**

## Saturday, September 24

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8:00 am

Atrium

### Continental Breakfast and Registration

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8:30 am -

10:10 am

Room 120

### Public Interest in the Public Airwaves

**Moderator:** Mark Bykowsky, *Federal Communications Commission*

#### Limits to Decentralization: The Example of AM Radio Broadcasting or Was a Common Law Solution to Chaos in the Radio Waves Reasonable in 1927?

- Charles Jackson, *JTC, LLC*

#### How America's Fragmented Approach to Public Safety Wastes Spectrum and Funding

- Jon M. Peha, *Carnegie Mellon University*

#### Getting the Best Out of Public Sector Spectrum

- Adele C. Morris, *U.S. Department of the Treasury*
- Martin Cave, *Warwick Business School, UK*

#### The Return of the Broadcast War

- Christian Sandvig, *University of Illinois at Urbana-Champaign*
- 

8:30 am-

10:10 am

Room 221

### The New Economics of the Last Mile

**Moderator:** Eloy Vidal, *World Bank*

#### An Analysis of the Determinants of Broadband Access

- Kenneth Flamm, *LBJ School of Public Affairs, The University of Texas at Austin*
- Anindya Chaudhuri, *LBJ School of Public Affairs, The University of Texas at Austin*

#### Bureaucrats as Entrepreneurs: Do Municipal Telecom Providers Hinder Private Entrepreneurs?

- Janice A. Hauge, *University of North Texas*
- Mark Jamison, *Public Utilities Research Center, University of Florida*
- Richard J. Gentry, *University of Florida*

#### Broadband Internet Adoption in Korea: A Maverick or a Model to Follow?

- Sung-Hee Joo, *Communications Studies, University of Michigan*

#### Analysis on the New Competition in the Saturated Residential Broadband Access Market: Using Stated Preference Data in Korea

- Daeyoung Koh, *Techno-Economics and Policy Program, Seoul National University*
  - Yeonbae Kim, *Techno-Economics and Policy Program, Seoul National University*
  - Jeong-Dong Lee, *Techno-Economics and Policy Program, Seoul National University*
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8:30 am-  
10:10 am  
Room 225

### **Internet Policy**

**Moderator:** Ewan Sutherland, *INTUG (Intl. Telecom Users Group)*

#### **Internet Production: An Empirical Foundation for Normative Internet Policy Making**

- Tom Vest, *Packet Clearinghouse*

#### **Internet Governance: Theory and First Principles**

- Johannes M. Bauer, *Michigan State University*

#### **An Economic Response to Unsolicited Communication (Spam)**

- Thede Loder, *University of Michigan*
  - Marshall Van Alstyne, *Boston University and Massachusetts Institute of Technology*
  - Richard Wash, *University of Michigan*
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8:30 am -  
10:10 am  
Room 224

### **Privacy, Security, Infrastructure**

**Moderator:** Tony Rutkowski, *Verisign*

#### **Trust on Demand: Enabling Privacy, Security, Transparency, and Accountability in Distributed Systems**

- Michael R. Nelson, *IBM Corporation*
- Matthias Schunter, *IBM Research*
- Michael R. McCullough, *IBM Corporation*
- John S. Bliss, *IBM Corporation*

#### **DNSSEC and Hardening Security in the Internet Infrastructure: The Public Policy Questions**

- Amy Friedlander, *Shinkuro, Inc.*
- Stephen D. Crocker, *Shinkuro, Inc.*
- Allison Mankin, *Shinkuro, Inc.*
- W. Douglas Maughan, *Shinkuro, Inc.*
- Douglas Montgomery, *Shinkuro, Inc.*

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**Good Neighbors Can Make Good Fences: A Peer-to-Peer User Security System**

- L. Jean Camp, *Informatics, Indiana University*
  - Allan Friedman, *Harvard University*
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10:10 am -  
10:40 am  
Atrium

**Coffee Break**

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10:40 am -  
12:20 pm  
Room 120

**Copyright**

**Moderator:** Mike Godwin, *Public Knowledge*

**Info-communism? A Critique of the Emerging Discourse on Property Rights in Information**

- Milton Mueller, *Syracuse University, School of Information Studies*

**The Move to Counter the Move to Counter Fair Use**

- Bruce Abramson, *Gordian Solutions, Inc.*

**The Effect of Decrease of Copying Cost on Optimal Copyright Duration: The Role of an Intermediary**

- Michael Yuàn, *Gabelli School of Business, Roger Williams University*
- Zhixiong Chen, *Mercy College*

**P2P as a Market Catalyst**

- Eli Noam, *Columbia University*
- 

10:40 am -  
12:20 pm  
Room 221

**ISPs and Market Structure**

**Moderator:** Shane Greenstein, *Northwestern University*

**A Simple Game Theoretic Analysis of Peering and Transit Contracting Among Internet Access Providers**

- Narine Badasyan, *Murray State University*
- Subhadip Chakrabarti, *University of Bonn, Germany*

**The Market Structure of Internet Service Provision**

- Anindya Chaudhuri, *LBJ School of Public Affairs, The University of Texas at Austin*
- Kenneth Flamm, *LBJ School of Public Affairs, The University of Texas at Austin*

**The Growth of Internet Overlay Networks: Implications for Architecture, Industry, Structure and Policy**

- Dave Clark, *Massachusetts Institute of Technology*
- William Lehr, *Massachusetts Institute of Technology*

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- Steve Bauer, *Massachusetts Institute of Technology*
  - Peyman Faratin, *Massachusetts Institute of Technology*
  - Rahul Sami, *Massachusetts Institute of Technology*
  - John Wroclawski, *USC Information Sciences Institute*

**Effects of Regulation on Investment and Innovation Incentives**

- Neal C. Stolleman, *Office of Economic Policy, U.S. Department of the Treasury*
- 

10:40 am -  
12:20 pm  
Room 225

**Lessons for Regulators**

**Moderator:** Don Stockdale, Federal Communications Commission

**Deregulation and the Changing Role of the State: From the AT&T Divestiture to the 1996 Telecommunications Act**

- Karen Gustafson, *Department of Radio-Television Film, The University of Texas at Austin*

**Back to the Future: How Transportation Deregulatory Policies Foreshadow Evolution of Communications Policies**

- Barbara A. Cherry, *Office of Strategic Planning and Policy Analysis, Federal Communications Commission*

**Traits of an Independent Communications Regulator: a Search for Indicators With Teaching Module on Ethics and Corruption**

- Irene Wu, *MNIA-SAND, International Bureau*

**Strength in Numbers? Public Participation in Ownership Proceeding at the Federal Communications Commission**

- JoAnne Holman, *School of Media Arts & Design, James Madison University*
- 

10:40 am -  
12:20 pm  
Room 224

**The Impact of Broadband Deployment**

**Moderator:** Jim McConnaughey, *NTIA*

**Measuring Broadband's Economic Impact**

- William H. Lehr, *Massachusetts Institute of Technology*
- Carlos A. Osorio, *Massachusetts Institute of Technology*
- Sharon E. Gillett, *Massachusetts Institute of Technology*
- Marvin Sirbu, *Carnegie Mellon University*

**Closing the Rural Broadband Gap: A Field Experiment**

- Sharon Stover, *University of Texas*
- Joe Straubhaar, *University of Texas*
- Robert LaRose, *Michigan State University*
- Jennifer Gregg, *University of Louisville*
- Nobuya Inagaki, *University of Texas*

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**Broadband Adoption at Home in the United States: Growing but Slowing**

- John Horrigan, *Pew Internet & American Life Project*

**The K-Net Development Process: A Broadband Model for First Nations Community Networking**

- Andrew Clement, *CRACIN*
- Adam Fiser, *CRACIN*
- Brian Walmark, *KORI*

12:20 pm –  
2:00 pm

Atrium

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**Lunch and Networking****Student Paper Awards**

2:00 pm –  
3:40 pm  
Room 120

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**Panel: Network Neutrality vs. Network Diversity: The Debate Between Open and Proprietary Broadband Architectures**

One of the most important and persistent questions in broadband policy is whether Congress and the FCC should mandate an open architecture, in which network owners are required to make their networks available to all content and applications providers on a nondiscriminatory basis, or should instead permit network owners to deploy proprietary architectures. The resolution of this issue will have implications for emerging applications, such as VoIP, as well as the basic structure of the Internet itself.

This panel will explore whether Congress and the FCC should mandate an open, interoperable architecture or should permit network owners to experiment with proprietary systems, taking into account the impact of the Supreme Court's recent decision in *Brand X*, the ongoing proceedings before the FCC, and Congress's efforts to overhaul the statutes governing the regulation of communications.

**Moderator:** Marjory Blumenthal, *Georgetown University*

Christopher S. Yoo, *Vanderbilt University*

Robert Crandall, *Brookings Institution*

Timothy Wu, *Columbia University*

David Clark, *Massachusetts Institute of Technology*

2:00 pm -  
3:40 pm

Room 221

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**Network Pricing**

**Moderator:** Jim Zolnierok, *Illinois Commerce Commission*

**Regulated Prices with Competition and Heterogeneous Consumers**

- Gregory L. Rosston, *Stanford Institute for Economic Policy Research*
- Scott J. Savage, *University of Colorado, Boulder*
- Bradley S. Wimmer, *University of Nevada, Las Vegas*

**Technical Compatibility and the Mode of Foreign Entry with Network Externalities**

- Mikhail Klimentko, *School of Economics, Georgia Institute of Technology*
- Kamal Saggi, *Department of Economics, Southern Methodist University*



**Optimal Pricing with Sunk Cost and Uncertainty**

- James Alleman, *University of Colorado – Boulder & Columbia University*
- Paul Rappoport, *Temple University & Columbia University*
- Larry Darby, *Darby & Associates*

**Retail Prices and Facility-Based Entry into the Telecommunications Market**

- David Gabel, *Queens College*
  - Carolyn Gideon, *Tufts University*
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2:00 pm -  
3:40 pm  
Room 225

**Creative Disruption: New Technologies and Innovation**

**Moderator:** Jim Snider, *New America Foundation*

**Sensors and Sensibilities**

- Kevin Werbach, *The Wharton School, University of Pennsylvania*

**Interaction- and Non-Interaction-Based Network Effects in Technology Adoption**

- Catherine Tucker, *Massachusetts Institute of Technology*

**TV in Your Cell Phone: The Introduction of Digital Multimedia Broadcasting (DMB) in Korea**

- Seungwhan Lee, *Department of Telecommunications, Indiana University*
- Dong Kyun Kwak, *Department of Telecommunications, Indiana University*

**The Social Efficiency of Fairness: An Information Economics Approach to Innovation**

- Gavin Clarkson, *University of Michigan School of Information, School of Law, and Native American Studies*
  - Marshall Van Alstyne, *Boston University and Massachusetts Institute of Technology*
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2:00 pm -  
3:40 pm  
Room 224

**Social and Political Implications of Information and Communication Technologies**

**Moderator:** Bjorn Wellenius, *Consultant*

**Opening to the World: The Effect of Internet Access on Corruption**

- Martha Garcia-Murillo, *School of Information Studies, Syracuse University*
- Hrishikesh (Rick) D. Vinod, *Department of Economics, Fordham University*

**Local Groups Online: Formal and Informal Public Participation in Governance**

- Andrea Kavanaugh, *Virginia Tech*
- Than Than Zin, *Virginia Tech*

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**The Right to Communicate: Democracy and the Digital Divide**

- Carolyn Cunningham, *Department of Radio-Television-Film, University of Texas at Austin*

**Independent Noncommercial Television: Technological, Economic and Social Bases of a New Model of Video Production**

- Mark Cooper, *Stanford Law School, Center for Internet and Society*
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3:40 pm -  
4:10 pm

Atrium

**Coffee Break**

4:10 pm -  
5:50 pm

Room 120

**Open Source Software**

**Moderator:** Elliot Maxwell, *Consultant*

**Patent Commons Becomes a Reality for Open Source Software**

- Tom Plunkett, *IBM*

**Standard Setting, Patents, and Access Lock-In: RAND Licensing and the Theory of the Firm**

- Joseph Miller, *Lewis & Clark Law School*

**Creative Commons: Licenses, Abandonments and a Semicommons of Creative Works**

- Lydia Pallas Loren, *Lewis & Clark Law School*

**Two-sided Competition of Proprietary vs. Open Source Technology Platforms and the Implications for the Software Industry**

- Nicholas Economides, *Stern School of Business, New York University*
  - Evangelos Katsamakas, *Stern School of Business, New York University*
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4:10 pm -  
5:50 pm

Room 221

**Competition in the Local Loop**

**Moderator:** Drew Arena, *Verizon*

**Regulated Unbundling of Telecommunications Networks: A Stepping Stone to Facilities-Based Competition?**

- Coleman Bazelon, *Analysis Group*

**Does UNE Mean One? An Analysis of the Determinants of Unbundled Network Element Rates**

- Troy C. Quast, *Department of Economics, University of Florida*

**From Clones to Packets: The Development of Competition in Local Telecommunications**

- Willie Grieve, *Telecom Policy and Regulatory Affairs, TELUS Communications Inc.*

- 
- Stanford Levin, *Department of Economics and Finance, Southern Illinois University Edwardsville*

**Telecommunications Merger Trends in the Context of the Convergence - Using the U.S. Merger Cases**

- Jin Ki Kim, *Department of Management Science and Systems, School of Management, University of New York at Buffalo*

4:10 pm -  
5:50 pm  
Room 225

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**Innovative Approaches to Defining Spectrum Rights**

**Moderator:** Evan Kwerel, *Federal Communications Commission*

**Cognitive Radios in Public Safety and Spectrum Management**

- Thomas W. Rondeau, *Center for Wireless Telecommunications, Virginia Tech*
- Charles W. Bostian, *Center for Wireless Telecommunications, Virginia Tech*
- David M. Maldonado, *Center for Wireless Telecommunications, Virginia Tech*
- Adam Ferguson, *Center for Wireless Telecommunications, Virginia Tech*
- Sheryl Ball, *Center for Wireless Telecommunications, Virginia Tech*
- Bin Le, *Center for Wireless Telecommunications, Virginia Tech*
- Scott Midkiff, *Center for Wireless Telecommunications, Virginia Tech*

**The "Ham and SDR Sandwich": Innovation and Enforcement Issues for Free and Open-Source Software on Software-Defined Radio Devices**

- James Miller, *Mansfield Fellow 2004-2006, on detail from the Federal Communications Commission, Office of Engineering and Technology, Policy and Rules Div., Spectrum Policy Branch, currently placed with the Japanese Ministry of Communications*

**Software Defaults as De Facto Regulation: The Case of Wireless APs**

- Rajiv Shah, *University of Illinois at Chicago*
- Christian Sandvig, *University of Illinois at Chicago*

**WIFI's Promise and Broadband Divides: Reconfiguring Public Internet Access in Austin, Texas**

- Martha Fuentes-Bautista, *Department of Radio TV Film, The University of Texas at Austin*
- Nobuya Inagaki, *Department of Radio TV Film, The University of Texas at Austin*

4:10 pm -  
5:50 pm  
Room 224

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**Universal Service Policy**

**Moderator:** Ed Cameron, *USDA*

**Motivations Behind Low-Income Households Bypass of Support for Universal Service**

- Justin Brown, *Department of Telecommunication, University of Florida*
- Mark Jamison, *Public Utility Research Center, University of Florida*

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**Universal Service Policy in China: Building Digital Bridge for Rural Community**

- Jun Xia, *School of Economics and Management, Beijing University of Posts & Telecommunications*
- Ting-jie Lu, *Beijing University of Posts & Telecommunications*

**Killing With Kindness: Fatal Flaws in the \$5.7 Billion Universal Service Funding Mission and What Should be Done to Narrow the Digital Divide**

- Rob Frieden, *Pennsylvania State University*

**Universal Access: Precedents, Prevarications and Progress**

- Harmeet Sawhney, *Department of Telecommunications, Indiana University*
- Krishna P. Jayakar, *College of Communications, Pennsylvania State University*

5:30 pm -

6:30 pm

Atrium

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**Reception**

6:30 pm -

7:30 pm

Atrium

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**Dinner**

**Speaker:** David L. Tennenhouse, Vice President, Corporate Technology Group Director, Research, Intel Corporation

**Putting Telecommunications on the Technology Curve: A**

**Retrospective** This talk will offer a technologist's reflections on life at the boundary between technology and policy. To motivate the discussion, the speaker will re-examine the conclusions of a (then forward-looking) research project in which he and his colleagues studied the implications of digitalization and software on telecommunications policy. How well has the analysis stood up to ten years of twists and turns? What did we get right? What did we get wrong? Why was the industry and policy community not able to circumvent some of the hazards that were foreseen? What proposed actions remain relevant today?

David Tennenhouse is a vice president of the Corporate Technology Group and Director of Research for Intel Corporation. As a faculty member and researcher at MIT, he was one of the pioneers of Asynchronous Transfer Mode (ATM) networking, Active networks, Software Radio, and Desktop Media processing. Prior to joining Intel, Tennenhouse served as DARPA's Chief Scientist and as Director of its Information Technology Office, where he helped launch the Next Generation Internet and IT21 / NITRD programs. He continues to be involved in national affairs through his participation in task forces of the Defense Science Board, the NSF/CISE advisory committee and the Computer Research Association.

## Sunday, September 25, 2005

8:00 am -  
8:30 am  
Atrium

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### Continental Breakfast and Registration

8:30 am -  
10:10 am  
Room 120

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### Mass Media: Industry Structure and the Public Interest

**Moderator:** Joseph M. Di Scipio, *Fletcher, Heald, and Hildreth*

#### Consumer Access to Video and Audio Information Sources: Trends and Policy Implications

- Benjamin Compaine, *Institute of Information Policy, Pennsylvania State University*

#### Duopoly Ownership and Local Informational Programming on Television: An Empirical Analysis

- Michael Zhaoxu Yan, *Department of Communication Studies, University of Michigan*
- Yong Jin Park, *Department of Communication Studies, University of Michigan*

#### Reciprocal Carriage of Vertically Integrated Cable Networks: An Empirical Study

- Jun-Seok Kang, *Department of Telecommunications, Indiana University*

8:30 am -  
10:10 am  
Room 221

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### VoIP

**Moderator:** Robert Pepper, *Cisco*

#### Can VoIP Providers Meet Their Social Obligations?

- Scott Forbes, *Microsoft*

#### "There is no Geography on the Internet" and Other Hyperboles

- Robert Cannon, *Cybertelecom*

#### VoIP under the E.U. Regulatory Framework: Preventing Foreclosure?

- Bert Sadowski, *Eindhoven University of Technology*
- Bas Straathof, *Eindhoven University of Technology*

#### Layers Revisited

- Scott Marcus, *Wissenschaftliches Institut für Kommunikationsdienste GmbH*
- Douglas C. Sicker, *University of Colorado at Boulder*

8:30 am -  
10:10 am  
Room 225

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## Lessons for Regulators: International Experiences

**Moderator:** Martin Cave, *Warwick Business School*

### You Pick up the Phone and it Works: An Examination of Real World Telecom Reform in the European Union

- Michael J. Weisman, *Technology Law and Intellectual Property LL.M. Program, University of Washington Law School*

### Competition in International Voice Communications

- Carlo Rossotto, *World Bank*
- Bjorn Wellenius, *Independent Consultant*
- Anat Lewin, *World Bank*
- Carlos Gomez

### Restructuring China's Information Policy: WTO Commitments, China's Unique Circumstances, and the "Independent Regulator" Issue

- Richard D. Taylor, *Pennsylvania State University*
- Zhang Bin, *Beijing University of Posts and Telecommunications*

### The Impact of Telecoms on Economic Growth in Developing Countries

- Leonard Waverman, *London Business School and LECG*
- Meloria Meschi, *John Cabot University and LECG*
- Melvyn Fuss, *John Cabot University and LECG*

8:30 am -  
10:10 am  
Room 224

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## Users' Perspective on Privacy

**Moderator:** Alan Davidson, *Google*

### Searches and Seizures in a Digital World

- Orin S. Kerr, *George Washington University Law School*

### Who Signed Up for the Do-Not-Call List?

- Hall Varian, *UC Berkeley, SIMS*
- Frederick Wallenberg, *UC Berkeley, SIMS*
- Glenn Woroch, *UC Berkeley, SIMS*

### Privacy Perceptions in India and the United States: An Interview Study

- Ponnunamgam Kumaraguru, *School of Computer Science, Carnegie Mellon University*
- Lorrie Cranor, *School of Computer Science, Carnegie Mellon University*
- Elaine Newton, *Engineering and Public Policy, Carnegie Mellon University*

10:10 am -  
10:40 am  
Atrium

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## Coffee Break

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10:40 am -  
12:20 pm  
Room 120

## **Mass Media: Content and Culture**

**Moderator:** Jonathan Levy, Federal Communications Commission

### **Indecency, Content Regulation and Cultural Policy**

- Kathleen Wallman, *Georgetown University*

### **Media Deregulation and the Online News Market**

- R. Kelly Garrett, *CRITO, University of California, Irvine*

### **Changing Markets, New Technology, and Violent Content: An Economic Study of Motion Picture Genre Trends**

- Weiting Lu, *Dept. of Telecommunications, Indiana University*
- David Waterman, *Dept. of Telecommunications, Indiana University*
- Michael Zhaoxu Yan, *Department of Communication Studies, The University of Michigan*

### **Access to Audiences as a First Amendment Right: Its Relevance and Implications for Electronic Media Policy**

- Philip Napoli, *Graduate School of Business Administration, Donald McGannon Communications Research Center, Fordham University*
- Sheea Sybblis, *Donald McGannon Communications Research Center, Fordham University*

10:40 am -  
12:20 pm  
Room 221

## **Policy Implications of Wireless Technologies**

**Moderator:** Kathleen Ham, *T-Mobile*

### **Competition in the United States Wireless Telephony Industry**

- Carol C. McDonough, *University of Massachusetts Lowell*

### **Competition in the U.S. Cellular Industry: The Role of and Prospects for Small Carriers**

- Carleen Maitland, *School of Information Sciences and Technology, Pennsylvania State University*
- Andrea Hoplight Tapia, *School of Information Sciences and Technology, Pennsylvania State University*

### **Public-Private Partnerships and the Role of State Legislation in Wireless Municipal Networks**

- Andrea H. Tapia, *School of Information Sciences & Technology, The Pennsylvania State University*
- Matt Stone, *Civitium, LLC*
- Carleen Maitland, *School of Information Sciences & Technology, The Pennsylvania State University*

10:40 am -  
12:20 pm  
Room 225a

## **Frameworks for Regulation**

### **Moderator:**

#### **Towards an Economic Framework for Network Neutrality Regulation**

- Barbara Van Schewick, *Telecommunications Network Group, Department of Electrical Engineering and Computer Science, Technical University Berlin, Germany and Center for Internet and Society, Stanford Law School*

#### **On the Regulation of Networks as Complex Systems: A Graph Theory Approach**

- Daniel F. Spulber, *Kellogg School of Management & Northwestern University School of Law*
- Christopher Yoo, *Vanderbilt University Law School*

#### **One Rule for Telecommunications Regulation**

- Tim Wu, *University of Virginia Law School, University of Chicago Law School*

#### **Entry and Vertical Disintegration**

- Alain de Fontenay, *CITI, Columbia University*
- Christiaan Hogendorn, *CITI, Columbia University.*

12:20 pm

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## **Conference Adjournment**