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TPRC 2003 Program

Friday, September 19, 2003

1:00pm
REGISTRATION
Atrium

2:00pm
PANELS
Room 120

Renegotiating the Federal-State Government Relationship for Regulating Telecommunications in the U.S.

Panelists:
- Pat Wood (invited), FERC Chairman
- Jonathan Adelstein (invited), FCC Commissioner
- Robert Nelson, Michigan PSC Commissioner (also Chairman, Telecommunications Committee of NARUC; member of NARUC Triennial Review Implementation Process (TRIP) Task Force)
- Additional State PSC Commissioner from NARUC TRIP Task Force

Deregulatory policies in the U.S. are disrupting the traditional structure of shared federal-state governmental regulation of telecommunications and electricity industries. These policy shifts are altering federal-state regulatory relationships and posing new challenges for federal-state regulatory coordination. Recent events have also demonstrated the vulnerability, importance and interdependence of the telecommunications and electricity infrastructures in the U.S. This panel of federal and state regulators will discuss the difficulties they face in implementing recent policy changes, particularly the Telecommunications Act of 1996, and changes that may be required for economically viable and reliable telecommunications networks in the U.S.

Room 225

Wireless ISP's - Third Pipe to the Home?

Moderator:
- Gene Crick, Executive Director, TeleCommunity Resource Center

Panelists:
- Marlon Schaffer, Owner, Odessa Office Equipment
- Michael Anderson, President, PDQLink
- Andrew Kreig, President, Wireless Consumers Alliance
- Kenneth Carter, FCC Office of Strategic Planning and Policy Analysis

Great attention is being poured on "third pipe to the home" solutions for Internet over broadband. The FCC is aggressively revisiting spectrum policy searching for means of releasing more useable airwaves into the hands of service providers. Wireless ISPs, for their part, are an exploding industry
provisioning broadband in rural communities beyond where incumbents fear to tread, and also in markets where incumbents tread and WISPs offer affordable and flexible bypass solutions. Antennas are sprouting up about the country on grain silos and town pumping stations. This panel will be comprised of leaders in the WISP industry offering perspective on Wireless Internet deployment and the future of the industry. This panel is a follow up on the FCC’s Sept 18 Rural Wireless Internet Showcase.

4:00pm
Room 120

PANELS

Consolidation and Competition: Economic Policymakers from the Administration

Moderator:
Greg Rosston, Stanford University

Panelists:
Patrick DeGraba, Senior Economist, FTC former Deputy Chief Economist
David Sibley, Deputy Assistant Attorney General, DOJ
Simon Wilkie, Chief Economist, FCC

This panel will feature the chief economists of the FCC and DOJ Antitrust Division discussing the economic views of the impact and approaches to analyzing consolidation and competition in the communications arena. The recent FCC decision on media concentration (and congressional action), rumored mergers among different telecommunications firms and questions about the interaction of regulation and competition policy should provide plenty of ammunition for the administration’s policymakers.

Room 225

Academics to Academics: Higher Education CIOs Discuss Network Initiatives

Panelists:
Gary Bachula, Vice President for External Relations, Internet2
Christopher Peabody, Director, Network and Computing Services, Georgetown University
Carl Whitman, Executive Director, E-Operations, American University

University chief information officers and campus network administrators will discuss the latest IT and networking initiatives and how your research can help educate policymakers on their value to society and the need for federal investment. The policy challenges involved with the building and daily running of stable, robust higher education information networks will also be discussed.
5:00pm
Atrium

RECEPTION

6:30pm
Atrium

DINNER

Welcome:
Brad Brown, Chairman, the Tech Center, George Mason School of Law
Robert Cannon, TPRC Program Committee Chair
Benjamin Compaine, TPRC Board Chair

7:30pm
Atrium

KEYNOTE:

Introduction:
Professor Lee McKnight, Syracuse University

Speaker:
Courtney Jackson, Deputy Director General Jamaican Office of Utility Regulation
Saturday, September 20, 2003

8:00am
Atrium

CONTINENTAL BREAKFAST and REGISTRATION

8:30am–10:10am
Room 225

BROADBAND POLICY

Moderator: Robert Cannon, FCC

Broadband Uptake in OECD Countries: Policy Lessons from Comparative Statistical Analysis
Junghyun Kim, Michigan State University
Johannes M. Bauer, Michigan State University
Steven S. Wildman, Michigan State University

Local Government Broadband Initiatives
Sharon Gillett, Massachusetts Institute of Technology
Carlos Osorio, Massachusetts Institute of Technology
William Lehr, Massachusetts Institute of Technology

Broadband Adoption in the United States: An Empirical Analysis
David E. Burnstein, LECG, LLC
Debra J. Aron, LECG, LLC

Broadband Access Platforms to the Mass Market: An Assessment
Dr. Stagg Newman, McKinsey and Company

8:30am–10:10am
Room 221

INTERNET INTERCONNECTION and TELECOM ACCESS

Moderator: Scott Marcus, FCC OSP

Access to Networks: Economic and Constitutional Connections
Christopher Yoo, Vanderbilt University Law School
Daniel F. Spulber, Kellogg School of Management

Bargaining for Access Rates in International Long Distance
V. Brian Viard, Stanford Graduate School of Business
Michael Dettorre, Charles Schwab & Co.
Internet Regulation: Monopolistic Bottlenecks in Internet Service Markets?
Margit Vanberg, ZEW (Centre for European Economic Research)

Explaining Internet Connectivity: Voluntary Interconnection Among Commercial Internet Service Providers
Daniel C. H. Mah, Steptoe & Johnson LLP

8:30am-10:10am
Room 332

COMMUNITY NETWORKS and the DIGITAL DIVIDE

Moderator: Lammot du Pont, Technology Opportunities Program

Beyond Community Networking and CTCs: Access, Development and Public Policy
Sharon Strover, University of Texas
Gary Chapman, University of Texas
Jody Waters, University of Texas

Race, Place, and Information Technology
Karen Mossberger, Kent State University
Caroline Tolbert, Kent State University

Revisiting Cost and Affordability Assumptions for High Speed Data Services in Low Population Density Locations
Ben Compaine, MIT Program on Internet & Telecoms Convergence

Low-Income Demand for Local Telephone Service: The Effects of Lifeline and Linkup
Michael H. Riordan, Columbia University
Gregory L. Rosston, Stanford Institute for Economic Policy Research
Bradley S. Wimmer, University of Nevada, Las Vegas

8:30am-10:10am
Room 224

INFORMATION POLICY

Moderator: Elliot Maxwell, Johns Hopkins University

China's Information Policy
Luyan Li, Northwestern University

Prospects and Limits of Comparative Research in Communications Policy-Making
Johannes Bauer, Michigan State University
Information Process Patents in the U.S. and Europe:
Policy Avoidance and Policy Divergence
Brian Kahin, University of Michigan

Security and Autonomy for End Users
Jean Champ

10:10am-10:40am
Atrium

10:40am-12:20pm
Room 225

COFFEE BREAK

SPECTRUM POLICY

Moderator: Robert Pepper, FCC OSP

Efficiency, Predictability and the Need for an Improved
Interference Standard at the FCC
R. Paul Margie, FCC

Real-Time Secondary Markets for Spectrum
Jon M. Peña, Carnegie Mellon University
S. Panichpapiboon, Carnegie Mellon University

Transition Paths in a Spectrum Commons Regime
Siddhartha Raja, University of Illinois at Urbana-Champaign
Francois Bar, University of Southern California

The U.S. Experience with Non-traditional Approaches to
Spectrum Management: Tragedies of the Commons and
Other Myths Reconsidered
Carol Ting, Quello Center for Telecommunication Management & Law,
Michigan State University
Johannes M. Bauer, Quello Center for Telecommunication Management &
Law, Michigan State University
Seven S. Wildman, Quello Center for Telecommunication Management &
Law, Michigan State University

10:40am-12:20pm
Room 221

TELECOMMUNICATIONS ACT REVISITED

Moderator: Daniel Craig, National Cable & Telecommunications Association

Thinking About Openness in the Telecommunications
Policy Context
Ashish Shah, Carnegie Mellon University
Dale Hatfield, University of Colorado
Douglas Sicker, University of Colorado
The Telecommunications Meltdown in the United States: Reasons and Solutions
Rob Frieden, Pennsylvania State University

Addressing Political Feasibility As Well As Economic Viability Constraints to Achieve Sustainable Telecommunications Policies in the U.S.
Barbara Cherry, FCC

Excessive(?) Entry of National Telecom Networks, 1990-2001
Christiaan Hogendorn, Wesleyan University

10:40am-12:20pm
Room 332

BROADBAND in DEVELOPING REGIONS

Moderator: Ben Compaine, MIT Program on Internet & Telecoms Convergence

Current International Issues in Communications Policy and Regulation
Irene Wu, FCC
Roxanne McElvane, FCC
Anita Dey, FCC

Universal Service: Beyond Established Practice to Possibility Space
Krishna Jayakar, Pennsylvania State University
Harmeet Sawhney, Indiana University

Expanding Rural Access to Telecommunications in Developing Nations
J. Riley Allen, USAID
Ed Malloy, USAID
Dale Hatfield, University of Colorado

Bridging the Broadband Divide: Strategies for Rural and Developing Regions
Heather Hudson, University of San Francisco
10:40am-12:20pm  
Room 224  

**ISSUES of IDENTITY, AUTHENTICATION, and AUTHORIZATION in PRIVACY**

**Moderator:** Mark Rotenberg, EPIC

**Privacy Principles for Authentication Systems**  
Paula Bruening, Center for Democracy and Technology  
Alan Davidson, Center for Democracy and Technology  
Ari Schwartz, Center for Democracy and Technology

**Contextualizing Online Identity: Paradigms and Practices**  
David J. Phillips, University of Texas at Austin

**Role Based Authorization as a Tool for Privacy and Anonymity**  
Douglas Sicker, University of Colorado

**Credential Wallets: A Classification of Credential Repositories Highlighting MyProxy**  
Jim Basney, University of Illinois  
William Yurcik, University of Illinois

12:20pm-2:00pm  
Atrium

**LUNCH and PLENARY SESSION**

Andrew Schwartzman and Randolph May

**The FCC's Media Ownership Ruling Reconsidered**

This panel brings together two vocal players in the ongoing debate about the FCC's controversial media ownership rules. Join Andrew Schwartzman of the Media Access Project and Randolph May of the Progress & Freedom Foundation for a lively discussion on the merits and consequences of the FCC's June vote.

**STUDENT PAPER AWARDS**

2:00pm-3:40pm  
Room 225

**SPECTRUM POLICY: UNLICENSED**

**Moderator:** Peter Tenhula, FCC

**WI-FI Networks and the Reorganization of Wireline-Wireless Relationship**  
Harmeet Sawhney, Indiana University
Supercommons: Toward a Unified Theory of Wireless Communication
Kevin Werbach, Supernova Group LLC

Assessing Cooperative Action in 802.11 Networks
Christian Sandvig, University of Illinois

Adaptive Spectrum Access: Using the Full Spectrum Space
William Horne, The MITRE Corporation

COMPETITION POLICY 1
Moderator: Chris Savage, Cole Raywid and Braverman

Economic Case for Voluntary Structural Separation
William Lehr, Massachusetts Institute of Technology
R. Glenn Hubbard, Columbia University

Pricing on Markets with Network Externalities and Coalitionally Rational Consumers
Rossella Argenziano, Yale University
Attila Ambrus, Yale University

Pricing of Complementary Goods and Network Effects
Nicholas Economides, Stern School of Business, New York University
V. Brian Viard, Stanford Graduate School of Business

Imperfect Competition in Internet Markets: The Role of Network Effects in Determining Market Structure
Jay P. Kesan, University of Illinois at Urbana-Champaign
Andres A. Gallo, University of Illinois at Urbana-Champaign

SPECIAL PANEL – Linking Barriers and Proposed Policy Initiatives: The Case of Telemedicine and E-Health

Moderator:
Pamela Whitten, Dept. of Telecommunications, Michigan State University

Panelists:
Lamont Dupont, TOP, NTIA
William England, Universal Subsidy Fund, FCC
Jon Linkous, American Telemedicine Association
Dena Puskin, Office for the Advancement of Telehealth, HRSA
Robert Waters, Center for Telemedicine Law, Arent Fox EHealth and Telemedicine
The use of telecommunication technologies to deliver e-Government services, online education and especially health services over a distance has enjoyed significant development over the past decade. Yet actual utilization often falls short of the potential offered by this innovative means of delivery. This panel will focus on the case of telemedicine and e-health, to link lessons learned from telemedicine research with current and future policy activities. The case of telemedicine can inform policy research in other related areas such as digital libraries, e-Government and online education.

Topics covered will include an overview of telecommunication initiatives related to telemedicine, a synthesis of research on challenges/barriers in telemedicine deployment and analysis of federal priorities. Further discussion will touch on the convergence of legal issues with actual delivery of health services. We'll finish with a discussion of current and future policy initiatives necessary to maximize telemedicine.

COPYRIGHT and COMMUNICATIONS

Moderator: Gigi Sohn, Public Knowledge

Stopping Digital Copyright Infringement Without Stopping Innovation
Mark A. Lemley, University of California at Berkeley
R. Anthony Reese, University of Texas School of Law

Analysis of Security Vulnerabilities in the Movie Production and Distribution Process
Patrick McDaniel, AT&T Labs – Research
Simon Byers, AT&T Labs – Research
Lorrie Cranor, AT&T Labs – Research
Eric Cronin, University of Pennsylvania
David Kornmann, AT&T Labs – Research

The Celestial Jukebox Revisited: Best Practices and Copyright Law Revisions for Subscription-Based Online Music Services
Adam David Marcus, Georgetown University

COFFEE BREAK
4:10pm-5:50pm
Room 225

SPECIAL PANEL –
Spectrum Auctions with Package Bidding

Moderator:
Evan Kwerel, FCC

Panelists:
Larry Ausubel, University of Maryland
Peter Cramton, University of Maryland
Karla Hoffman, George Mason University
David Parkes, Harvard University

With worldwide wireless markets, services, and applications growing faster than any other telecom sector, spectrum is the keystone to growth. This panel brings together scholars and researchers who will describe alternative approaches to introducing package bidding in spectrum auctions.

4:10-5:50pm
Room 221

COMPETITION POLICY 2

Moderator: Don Stockdale, FCC OSP

The Satellite Home Viewer Improvement Act: Price and Quality Impact of Direct Broadcast Satellite Companies' Provision of Local Broadcast Networks
Michael E. Cements, United States General Accounting Office
Stephen M. Brown, United States General Accounting Office

Valuing New Goods in the Presence of Complementarities: Online News
Matthew Gentzkow, Harvard University

The Effect of Entry and Market Structure on Cellular Pricing Tactics
Katja Seim, Stanford Graduate School of Business
V. Brian Viard, Stanford Graduate School of Business

Vertical Integration and Local Station Carriage in the Cable Television Industry: Results from Logit Analysis
Michael Zhaoxu Yan, University of Michigan
4:10pm-5:50pm  
Room 332

SPECIAL PANEL –  
Game-Changing Technologies and Their Policy Implications

Moderator:  
Kevin Werbach, Supernova Group

Panelists:  
Michael R. Nelson, IBM Corporation  
Clay Shirky, Consultant  
Mitch Waldrop, author of “The Dream Machine”  
Elliot Maxwell, Johns Hopkins University

New technologies, such as wireless broadband, optical networks, Grid computing, Web services, social software, pervasive computing, and RFID tags, are enabling a new generation of Internet applications. At the same time, they are posing thorny new policy challenges. For instance, as Web services and Grid enable more and more mission-critical software to run "on the network" rather than on a single computer, who will be liable when the application fails? What regulations and law will apply to the new virtual communities being created on Friendster and Tribe.net? How do national privacy rules apply when personal data is spread over a distributed storage system in six different countries? Should the privacy of geo-location data from wireless devices be protected by law? Panelists will describe several new Next Generation Internet technologies and the work that will be needed to understand and address the policy issues they may create.

4:10pm-5:50pm  
Room 224

INTERNET GOVERNANCE

Moderator:  Robin Layton, NTIA Office of International Affairs

Governing E-Commerce - Prospects and Problems  
Seamus Simpson, Manchester Metropolitan University  
Rorden Wilkinson, University of Manchester

Cohesion and Coherence in the UDRP  
Thomas Lee, University of Pennsylvania  
Dan Hunter, University of Pennsylvania  
Dan Orr, Vanderbilt University Law School

The W3C and its Patent Policy Controversy: A Case Study of Authority and Legitimacy in Internet Governance  
Andrew L. Russell, Johns Hopkins University

The Post-.COM Internet: Towards Regular and Objective Procedures for Internet Governance  
Milton Mueller, Syracuse University School of Information Studies  
Lee McKnight, Syracuse University School of Information Studies
5:30pm
Atrium

6:30pm
Atrium

7:30pm
Atrium

RECEPTION

DINNER

SPEAKER

Telecommunications Meltdown
For several decades, US policy in telecommunications and electronic mass media focused on the encouragement of competition. What has been the impact of this policy? A recent academic project has focused on one dimension: the impact of liberalization on competitive market structure. This question has acquired some urgency in light of the recent meltdown in the telecom sector. As instability becomes part of the environment, what will telecom companies do? This session will begin with the academics presenting the results of a recent project that examined the liberalization of competitive market structure and its impact on the recent telecommunications industry meltdown. Then, a panel of select industry representatives would give their reaction and response.

Panelists:
Jim Alleman
Bob Blau
Mike Nelson
Eli Noam
Larry Strickling
George Vradenburg

SOCIAL EVENT
Sunday, September 21, 2003

8:00am
Atrium

CONTINENTAL BREAKFAST and REGISTRATION

8:30am-10:10am
Room 225

ISSUES IN WIRELESS COMMUNICATIONS

Moderator: Barry Ohlson, Legal Advisor, Commissioner Adelstein

Household Demand for Wireless Telephony: An Empirical Analysis
Paul Rappoport, Temple University and Columbia Institute for Tele-Information
James Alleman, University of Colorado and Columbia Institute for Tele-Information
Lester Taylor, University of Arizona

Legislators v. Regulators: The Case of Low Power FM Radio
Thomas W. Hazlett, Manhattan Institute for Policy Research and Columbia Institute for Tele-Information
Bruno E. Viani, Manhattan Institute for Policy Research

Investing in the Development of a Space-Based Information Network Infrastructure
Serena Chan, Massachusetts Institute of Technology

Interlicense Competition: Spectrum Deregulation without Confiscation or Giveaways
Coleman Bazelon, Analysis Group, Inc.
Michael Rothkopf, Rutgers University

8:30am-10:10am
Room 221

STANDARDS

Moderator: Richard Hovey, FCC OET

Policy Impact Assessments: Considering the Public Interest in Internet Standards Development
John Morris, Center for Democracy & Technology
Alan Davidson, Center for Democracy & Technology
The Failure of a Regulatory Threshold and a Carrier Standard in Recognizing Significant Communication Loss
Andrew P. Snow, J. Warren McClure School of Communication Systems Management, Ohio University

Strategic Interoperability Standards and Trade Policy for Industries with Network Externalities
Mikhail M. Klimenko, University of California, San Diego

8:30am-10:10am
Room 332

SECURITY: NATURAL EXPERIMENTS and POLICIES to MOTIVATE IMPROVED SECURITY

Moderator: Donald Weightman

The Impact of National Infrastructure and Cyberspace Security Strategies on Legal Rights and Liabilities
Jeffrey H. Matsuura, University of Dayton

Rewarding IT Security in the Marketplace
Walter S. Baer, RAND

The Internet Under Crisis Conditions: Learning from September 11
Jon Eisenberg, Computer Science and Telecommunications Board, The National Academies
Craig Partridge, BBN

Why Do the Graphs of the "Slammer Worm" Differ So Much?
John Quartermar, Matrix NetSystems
Peter Salas, Matrix NetSystems

8:30am-10:10am
Room 224

REGULATION of ONLINE ACTIVITY

Moderator: Lee Rainie, Pew Internet

Free Speech: The First Amendment and Distributive Values of Copyright
Molly Shaffer Van Houweling, University of Michigan Law School
Hope and Hype v. Reality: The Role of the Commercial Internet in Democratic Discourse and Prospects for Institutional Change
Mark Cooper, Stanford Law School Center for Internet and Society

Search and You Shall Find? The Effects of Online Commercial Interests on People's Ability to Find Content on the Web
Eszter Hargittai, Northwestern University

10:10am-10:40am
Atrium

COFFEE BREAK

10:40am-12:20pm
Room 225

BROADBAND DEPLOYMENT

Moderator: Brad Ramsey, NARUC

Promises and False Promises of PowerLine Carrier (PLC) Broadband Communications - A Techno-Economic Analysis
Rahul Tongia, Carnegie Mellon University

An Economic Analysis of the Factors that Influence the Deployment of Advanced Telecommunications Services
Eugene Floyd, City University of New York
David Gabel, Queens College

International Broadband Deployment: The Impact of Unbundling
Martha Garcia-Murillo, Syracuse University
David J. Gabel, Queens College

Towards Technologically and Competitively Neutral Fiber to the Home (FTTH) Infrastructure
Anupam Banerjee, Carnegie Mellon University
Marvin Sirbu, Carnegie Mellon University

10:40am-12:20pm
Room 221

MASS MEDIA

Moderator: Barbara Esbin, FCC Media Bureau

The Effects of Technological Change on the Quality and Variety of Information Products
David Waterman, Indiana University
The Technological Revolution Will Not be Televised: Canadian Copyright and Internet Transmission
Matt Jackson, Pennsylvania State University

Underlying Motivations in the Broadcast Flag Debate
Allan Friedman, Harvard University
Roshan Baliga, Massachusetts Institute of Technology
Deb P. Dasgupta, Massachusetts Institute of Technology
Anne Dreyer, Massachusetts Institute of Technology

Localism and Media Firms in Smaller Local Markets: Challenges in the New Media Market Landscape
Jenghoon Lee, Florida State University
Stephen D. McDowell, Florida State University

10:40am-12:20 pm
Room 332

USER STUDIES

Moderator: Jim McConnaughey, NTIA

Internet Health Resources: Health Searches and E-mail Have Become More Commonplace, but There Is Room for Improvement in Searches and Overall Internet Access
Susannah Fox, PEW Internet & American Life Project
Deborah Fallows, PEW Internet & American Life Project

Old and New Channels: Traditional Communications Practices with the Development of E-Government
Elena Larsen, PEW Internet & American Life Project

Price Discrimination Amid Heterogeneous Switching Costs: A Competitive Strategy of the Long Distance Telephony Fringe
Nancy Eppling, Indiana University
10:40am-12:20pm  INTERNET REGULATORY APPROACHES
Room 224

Moderator: Marjory Blumenthal, Georgetown University

On Copyright's Communications Policy
Timothy Wu, University of Virginia Law School

Virtual Worlds, Real Rules
Caroline Bradley, University of Miami School of Law
A. Michael Froomkin, University of Miami School of Law

The Internet: Still Wide Open and Competitive?
Eli Noam, Columbia Institute for Tele-Information, Columbia Business School

12:20pm

CONFERENCE ADJOURNMENT