TWENTY-SECOND ANNUAL
TELECOMMUNICATIONS POLICY RESEARCH CONFERENCE

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1994 TPRC GRADUATE STUDENT RESEARCH AWARD
Initiated in 1988, the TPRC Graduate Student Research Awards seek to encourage and acknowledge research excellence at the graduate student level in topics pertinent to TPRC. This year’s awards are presented to:

1ST PLACE: KETRA RUIZ, THE WORLD BANK
2ND PLACE: GREGORY ROSSTON, FEDERAL COMMUNICATIONS COMMISSION
3RD PLACE: SHARON EISNER GILLETT, MIT RESEARCH PROGRAM ON COMMUNICATIONS POLICY
SATURDAY, OCTOBER 1, 1994

3:00pm-6:30pm  REGISTRATION
LOCATION: BACK CREEK

3:30pm-5:00pm  Tutorial on New Technologies given by:
               Tim Oren
               Vice President, New Technologies
               CompuServe
LOCATION: DRUM POINT ROOM

5:30pm-6:30pm  RECEPTION/CASH BAR
LOCATION: CONCOURSE

6:30pm-7:30pm  DINNER
LOCATION: PATUXENT BALLROOM

7:30pm-9:00pm  OPENING SESSION

OPENING REMARKS:
Pamela Samuelson
ORGANIZING COMMITTEE CHAIR

OPENING SESSION:  The Research Agenda for the National
                   Information Infrastructure Initiative

Washington officials involved in the NII will join us to discuss the
research needed for successful implementation of the NII.
SUNDAY, OCTOBER 2, 1994

8:00am-5:00pm  REGISTRATION
               LOCATION: BACK CREEK

7:30am-8:30am  BREAKFAST
               LOCATION: CHESAPEAKE BALLROOM

SESSIONS:

8:30am-10:00am  ST. LEONARD CREEK ROOM

SESSION:  Spectrum Auction Design

SESSION CHAIR:  Evan Kwerel, Federal Communications Commission

SPEAKERS:  Paul Milgrom, Stanford University
           R. Preston McAfee, The University of Texas at Austin
           John O. Ledyard, California Institute of Technology

DISCUSSANTS:  Peter Cramton, University of Maryland
              Mark Bykowsky, NTIA

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LOCATION:  BATTLE CREEK ROOM

SESSION:  The Contributions of the State to the National Information Infrastructure

SESSION CHAIR:  Eli Noam, Columbia Institute for Tele-Information

SPEAKERS:  Kenneth Gordon, Massachusetts Department of Public Utilities
           Joe Miller, Idaho Public Utilities Commission
           Lisa Rosenblum, New York Public Service Commission
LOCATION: ST. LEONARD CREEK ROOM
SESSION: The Effects of Regulation on Innovation
SESSION CHAIR: John Mayo, The University of Tennessee
PAPERS:

Innovation and Imitation in a Partially-Regulated Industry
Thomas P. Lyon, Indiana University and Haizhou Huang, Chinese University of Hong Kong

The Effect of Incentive Regulation on Local Exchange Companies’ Deployment of Digital Infrastructure
Shane Greenstein and Susan McMaster, University of Illinois, Urbana/Champaign and Pablo Spiller, University of California, Berkeley

Network Effects and Technology Adoption in U.S. Telecommunications
Sumit K. Majumdar, University of Michigan and S. Venkataraman, University of Pennsylvania

DISCUSSANT: Gerry Faulhaber, University of Pennsylvania

LOCATION: THEATRE
SESSION: The Economics of Internet
SESSION CHAIR: Hal Varian, University of Michigan
PAPERS:

Realizing the Information Future: Technology, Economics, and the NII
Marjory S. Blumenthal, National Research Council

Critical Mass and Network Size
Nicholas Economides and Charles Himmelberg
Stern School of Business
The Economics of Internet Interconnection Agreements
Padmanabhan Srinagesh, Bellcore

DISCUSSANTS:
Jeff MacKie-Mason, University of Michigan
William Lehr, Columbia University

10:00am-10:30am
COFFEE BREAK

SUNDAY, OCTOBER 2, 1994

SESSIONS:
10:30am-12:00pm

LOCATION: HUNTING CREEK ROOM

SESSION: PCS Valuations and Auction Alternatives

SESSION CHAIR: Terrence McGarty, The Telmarc Group, Inc.

PAPERS:
Wireless Architectural Alternatives: Current Economic Valuations Versus Broadband Options, The Gilder Conjectures
Terrènc McGarty, The Telmarc Group Inc. and Muriel Medard, MIT

Advanced Wireless Concepts: Technology and Policy Alternatives
Irvin G. Stiglitz, MIT Lincoln Labs

The 5 C's of Wireless Technology and Policy: A Comparison of CDMA and GSM for Coverage, Capacity, Clarity, Cost and Competitiveness
Jim Madsen, QUALCOMM, Inc.

DISCUSSANTS:
W. Russell Neumann, Tufts University
Michael Einhorn, Department of Justice
David Tennenhouse, MIT
LOCATION: BATTLE CREEK ROOM

SESSION: The Economics of Integrated Broadband Networks

SESSION CHAIR: David Waterman, Indiana University

PAPERS:
- One Line or Two: Economies of Scale and Scope in Telecommunications
  David J. Salant, GTE Laboratories Incorporated
- Pricing of Integrated Digital Telephone and Cable TV Services
  Yuehong Yuan and Marvin Sirbu, Carnegie Mellon University
- Telcos, Cable-Operators, Public Authorities and the Transition to Multimedia in Europe
  Jean-Pierre Coustel, France Telecom

DISCUSSANT: Leland Johnson, Consultant, Telecommunications Economics

LOCATION: ST. LEONARD CREEK ROOM

SESSION: The First Amendment as a Form of Regulation

SESSION CHAIR: Allen Hammond, New York Law School

PAPERS:
- Lost on the Infobahn Without a Map: The Need for a Coherent First Amendment Approach
  Robert Corn-Revere, Hogan and Hartson
- Merging Phone and Cable
  C. Edwin Baker, University of Pennsylvania
- Game Theory and the First Amendment: Strategic Considerations and Freedom of the Press
  Tim Brennan, University of Maryland, Baltimore County

DISCUSSANT: Allen Hammond, New York Law School
SUNDAY, OCTOBER 2, 1994
10:30am-12:00pm
(Con't)

LOCATION: THEATRE

SESSION: Alternative Regulatory Regimes in Theory and Practice

SESSION CHAIR: Dennis L. Weisman, Kansas State University

PAPERS: Does Profit Sharing Regulation Benefit Consumers?
Simon Wilkie, California Institute of Technology

Periodic Review of Price Cap Plans: Economic Issues
Timothy Tardiff and William Taylor, National Economic Research Associates

Dynamic Effects of Price Cap and Rate of Return Regulation on Exchange Carrier Incentives
Neal Stolleman, Bellcore

DISCUSSANT: David Sibley, University of Texas

12:00pm-1:30pm LUNCH
LOCATION: CHESAPEAKE BALLROOM

SUNDAY, OCTOBER 2, 1994

SESSIONS:
1:30pm-3:00pm

LOCATION: HUNTING CREEK ROOM

SESSION: Universal Service

SESSION CHAIR: Milton Mueller, Rutgers University, SCILS

PAPERS: Telephone Penetration 1984-1994
Jorge R. Schement, Alex Belinfante and Larry Povich, Federal Communications Commission

Funding the Public Telecommunications Infrastructure
Bruce Egan, Columbia Institute for Telecommunications and Steve Wildman, Northwestern University

Universal Service as an Appropriability Problem
Milton Mueller, Rutgers University
Universal Service: Prosaic Motives and Great Ideals  
Harmeeit Sawhney, Indiana University

DISCUSSANTS:  
Eli Noam, Columbia Institute for Tele-Information  
Mark Jamison, Sprint

LOCATION:  
BATTLE CREEK ROOM

SESSION:  
Electronic Commerce

SESSION CHAIR:  
Marvin Sirbu, Carnegie-Mellon University

PAPERS:  
Electronic Brokers: Examples and Policy Implications  
Paul Resnick, MIT Center for Coordination and Chris Avery and Richard Zeckhauser, Harvard Kennedy School of Government

The Effect of Networks on Buyer-Seller Relationships: Implications for the National Information Infrastructure  
Charles Steinfeld, Michigan State University and Robert Kraut, Carnegie Mellon University

Models and Policies for Electronic Currency  
L.J. Camp, Marvin Sirbu and J.D. Tygar, Carnegie Mellon University

LOCATION:  
ST. LEONARD CREEK ROOM

SESSION:  
Self v. Government Regulation of Violent Media Content

SESSION CHAIR:  
Dale Kunkel, University of California, Santa Barbara

PAPERS:  
Violence on Television: A British Perspective  
Barrie Gunter, University of Sheffield

Media Classification Systems: An International Assessment  
Joel Federman, Mediascope
SUNDAY, OCTOBER 2, 1994
1:30pm-3:00pm
(Con't)

Prospects for Industry Monitoring of Television Violence in the U.S.
Ed Donnerstein, University of California, Santa Barbara

DISCUSSANT: Kristan VanHook, Sub-Committee on Telecommunications and Finance, U.S. House of Representatives

LOCATION: THEATRE
SESSION: The Effects of Recent Regulatory Changes on the Cable Television Industry
SESSION CHAIR: Jerry Duvall, Federal Communications Commission

PAPERS: Demand and Revenue Elasticities for Cable Television Service
David Roddy, Economics and Technology, Inc.

Vertical Integration, Program Access, and the 1992 Cable Television Act
David Waterman, Indiana University and Andrew Weiss, University of Southern California

Fragmented Duopoly: Evidence on Pricing Behavior in the Cable Television Industry
George Ford, Federal Communications Commission

DISCUSSANT: Michael Katz, Federal Communications Commission

3:00pm-3:30pm COFFEE BREAK
SUNDAY, OCTOBER 2, 1994

SESSION:
3:30pm-5:00pm

LOCATION: PATUXENT BALLROOM

PLENARY SESSION: Forecasting the Future: Different Views

PANELISTS: Marvin Sirbu, Carnegie-Mellon University
Peter Huber, Manhattan Institute
Robert Hall, Stanford University

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TOUR BOAT TRIP

5:00pm-6:00pm 1ST TOUR
(Please sign up at registration desk, 45 persons allowed per trip)

6:00pm-7:00pm 2ND TOUR
(Please sign up at registration desk, 45 persons allowed per trip)

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6:00pm-7:00pm RECEPTION/CASH BAR

7:00pm-8:30pm DINNER
LOCATION: CHESAPEAKE BALLROOM

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MONDAY, OCTOBER 3, 1994

7:30am-8:30am BREAKFAST
LOCATION: CHESAPEAKE BALLROOM
SESSIONS:
8:30am-10:00am

LOCATION: HUNTING CREEK ROOM

SESSION: Interconnection of Telephone Networks

SESSION CHAIR: Bridger Mitchell, Charles River Associates

PAPERS:
Historical Perspectives on Interconnection Between Competing Local Exchange Companies
David Gabel, Queens College and David Weiman, Yale University and Institute

Interconnection Agreements and Market Entry in Telecommunications: Lessons from Cross-Country Comparisons
Bridger Mitchell, Charles River Associates and European-American Center for Policy Analysis;
Werner Neu and Karl-Heinz Neumann, Wissenschaftliches Institut fuer Kommunikationsdienste; Ingo Vogelsang, Boston University and European-American Center for Policy Analysis

Access Pricing Entry and the Baumol-Willig Rule
Chris Doyle, University of Cambridge and Mark Armstrong, University of Southampton

DISCUSSANT: Eli Noam, Columbia Institute for Tele-Information

LOCATION: ST. LEONARD CREEK ROOM

SESSION: The Political Economy of Global Alliances

SESSION CHAIR: Martin Cave, Brunel University

PAPERS:
The U.S. Stake in Competitive Global Telecommunications Service: The Economic Case for Tough Bargaining
John Haring, Jeffrey Rohlfs, Harry Shooshan, III, Strategic Policy Research

The Anatomy and Regulatory Repercussions of Global Telecommunications Strategies
Johannes Bauer, Michigan State University
Global Telecommunications Services: The Changing Face of the Trans-Atlantic Telephone Service
Richard Cawley, Directorate General XIII

DISCUSSANT: Martin Cave

LOCATION: THEATRE

SESSION: Competition and Regulation

SESSION CHAIR: Harold Ware, National Economic Research Associates, Inc.

PAPERS:
The Political Economy of Entry into Local Exchange Markets
Yossi Spiegel, Tel Aviv University and Bhaskar Chakravorti, Bellcore

Local Exchange Competition: Alternative Models in Maryland
Richard L. Cimerman and Geoffrey J. Waldau, Maryland Public Service Commission

Pricing Strategies and Regulatory Effects in the U.S. Cellular Telecommunications Duopolies
Keta Ruiz, The World Bank

DISCUSSANTS: Suchan Chae, Rice University
J. Gregory Sidak, American Enterprise Institute

10:00am-10:30am COFFEE BREAK
MONDAY, OCTOBER 3, 1994

SESSIONS:

10:30am-12:00pm

LOCATION: HUNTING CREEK ROOM

SESSION: Network Standards Development Organizations and Intellectual Property Rights

SESSION CHAIR: Brian Kahin, Harvard University

PAPERS:

Standards Development Strategies Under Incomplete Information - Is the Battle of the Sexes a Revelation Game?
Paul A. David, All Souls College and Hunter K. Monroe, International Monetary Fund

Alternatives to Financing the Standards Development Process
Martin Weiss and Michael Spring, University of Pittsburgh

Telecommunications Standardization and Intellectual Property Rights: A Fundamental Dilemma?
Márk Shurmer, Brunel University and Gary Lea
University of Reading

DISCUSSANT: Joseph Farrell, University of California, Berkeley

LOCATION: BATTLE CREEK ROOM

SESSION: Economic Development and Information Structure

SESSION CHAIR: Dimitri Ypsilanti, OECD

PAPERS:

Economics of Broadband Networks in Japan
Hajime Oniki, Osaka University

Access to Telecommunications in the Developing World: Ten Years After the Maitland Report
Heather E. Hudson, University of San Francisco

DISCUSSANT: Jürgen Müller, DIW
LOCATION: ST. LEONARD CREEK ROOM

SESSION: Market Structure and Ownership Diversity in the Mass Media

SESSION CHAIR: Steve Wildman, Northwestern University

PAPERS:
- Vertical Integration Market Foreclosure, and Efficiency: Some Evidence from the Cable Television Industry
  Tasneem Chipty, Ohio State University

- Windowing Video Products
  Suchan Chae, Rice University

- The Prime Time Access Rule and the Market for Syndicated Television Programs
  Karla S. Robinson, Northwestern University

DISCUSSANT: Mark Fratrick, National Association of Broadcasters

LOCATION: THEATRE

SESSION: Antitrust Economics in Telecommunications

SESSION CHAIR: Michael Einhorn, U.S. Department of Justice

PAPERS:
- Implications of the MFJ for Current Antitrust Policy
  Roger Noll, Stanford University

- Antitrust Implications of Unbundling Local Networks
  Robert Harris, David Teece, University of California, Berkeley and Greg Rosston, Federal Communications Commission

- One-Way Networks, Two-Way Networks, Compatibility and Antitrust
  Nicholas Economides and Lawrence J. White, New York University

DISCUSSANTS: J. Gregory Sidak, American Enterprise Institute
John Woodbury, Charles River Associates
12:00pm-1:00pm

LUNCH
LOCATION: CHESAPEAKE BALLROOM

ADJOURN

NOTES