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26TH ANNUAL TPRC

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PROGRAM COMMITTEE
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TWENTY-SIXTH ANNUAL TELECOMMUNICATIONS POLICY RESEARCH CONFERENCE
October 3-5, 1998

DETAILED PROGRAM

SATURDAY, OCTOBER 3, 1998

2:00pm-7:00pm
REGISTRATION
LOCATION: UPPER FOYER

TUTORIALS
LOCATION: MAGNOLIA ROOM

2:15pm-4:00pm
Internet Telephony
SPEAKERS:
Lee McKnight, Massachusetts Institute of Technology and Tufts University
William Lehr, MIT, ITC & Columbia University

4:15pm-6:00pm
E-Commerce
SPEAKER:
Marvin Sirbu, Carnegie Mellon University

5:30pm-6:30pm
RECEPTION
HOSTED BY THE SPONSORS OF TPRC
LOCATION: OUTSIDE TERRACE

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

7:30pm-9:00pm
OPENING SESSION
LOCATION: TERRACE BALLROOM

Welcoming Remarks by Benjamin Compaine
and Jorge R. Schement - 26th Annual Program Committee Co-Chair

Special Recognition of Colin Blackman
Retiring Editor of Telecommunications Policy

PRESENTERS:
Chris Sterling, George Washington University
Walter Baer, RAND
Robert Frieden, Penn State University
Heather Hudson, University of San Francisco
Eli Noam, Columbia University
SATURDAY, OCTOBER 3, 1998
(CON'T)

PLENARY SESSION: Net Heads vs. Bell Heads: Which Paradigm for Telecommunications Will Prevail?
CHAIR: Peter Harter, Netscape Communications Corp.
PANELISTS: David Clark, Massachusetts Institute of Technology
Andrew Odlyzko, AT&T Labs-Research
Stu Personick, Drexel University

SUNDAY, OCTOBER 4, 1998

7:30am-5:00pm REGISTRATION
LOCATION: LOWER FOYER

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

8:30am-10:00am SESSIONS
LOCATION: PLAZA I
SESSION: Content Controls
CHAIR: Michael Froomkin, University of Miami

PAPERS: First Amendment’s Limitations on the Use of Internet Filtering in Public Schools & Libraries
Mark Nadel, Federal Communications Commission
Internet Control in Asia: Implications of New Media & Supranational Policy-Making
Nandini Sen, Temple University
The Architectures of Mandated Access Controls
Paul Resnick, The University of Michigan and Larry Lessig, Harvard Law School

DISCUSSANT: Mark Lemley, University of California
SUNDAY, OCTOBER 4, 1998
8:30am-10:00am (Con't)

LOCATION: PLAZA II
SESSION: Mass Media, Old And New
CHAIR: Benjamin Compaine, Harvard University

PAPERS:
- Do People Not Subscribe to Cable Television Because They Can Not Afford the Service? A Review of the Evidence
  Robert Kieschnick and Bruce McCullough, Federal Communications Commission
- The Economics of American Movie Exports: An Empirical Analysis
  Krishna Jayakar and David Waterman, Indiana University
- Uses & Gratification’s of the World-Wide Web in an Educational Context
  Samuel Ebersole, University of Southern Colorado
- Are American Media Becoming More Concentrated?
  Eli Noam, Columbia Institute for Tele-Information

LOCATION: PLAZA III
SESSION: Infrastructure Investment
CHAIR: David Tennenhouse, DARPA/ITO

PAPERS:
- Universal Access and Local Commercial Internet Markets
  Shane Greenstein, Northwestern University and Tom Downes, Tufts University
- The Internet and Other Networks: Utilization Rates and Their Implications
  Andrew Odlyzko, AT&T Labs-Research
- Implications of Local Loop Technology for Future Industry Structure
  David Clark, Massachusetts Institute of Technology
- Deregulation and Reform in the Israeli Telecommunications Sector: Transition to a Competitive Industry
  Neil Gandal, Tel Aviv University
SUNDAY, OCTOBER 4, 1998
8:30am-10:00am (Con't)

LOCATION: BEECH ROOM
SESSION: Security And Trustworthiness: Can Policy Promote Progress?
CHAIR: Marjory Blumenthal, National Research Council and Massachusetts Institute of Technology

PAPERS:
The Politics and Policies of Enhancing Trustworthiness
Marjory Blumenthal, National Research Council and Massachusetts Institute of Technology

PANELISTS:
Critical Infrastructures You Can Trust: Where Telecommunications Fits
Fred Schneider, Cornell University
Steven Bellovin, AT&T Labs Research
Alan Inouye, National Research Council (author not presenting)

DISCUSSANT: Charles Holland, Defense Research Engineering

10:00am-10:30am COFFEE BREAK
LOCATION: FOYER

10:30am-12:00pm SESSIONS
LOCATION: PLAZA I
SESSION: Privacy
CHAIR: Jessica Litman, Wayne State University

PAPERS:
Tele-Privacy: The European Union Directive on Data Protection in Telecommunications
Viktor Mayer-Schoenberger, Kennedy School of Govt./Univ. of Vienna,

Financial Privacy: Implications of Money Laundering Law for Encryption and CALEA
Peter Swire, Ohio State University

The Architecture of Identity
Phil Agre, University of California, Los Angeles

DISCUSSANT: Michael Nelson, IBM
SUNDAY, OCTOBER 4, 1998
10:30am-12:00am (Con’t)

LOCATION: PLAZA II
SESSION: Convergence: Regulatory Implications
CHAIR: Luigi Prosperetti, University of Milan-Italy

PAPERS:
Telecommunications Regulations in the United States and Europe: The Case for Centralized Authority
William Lehr; Columbia University and Massachusetts Institute of Technology; and Thomas Kiessling, Harvard University

Convergence, Competition and Regulation
Christopher Marsden, University of Warwick and Campbell Cowie, LECG Ltd.

Asymmetric Regulation of Converging Markets: Problems, Pitfalls and Potential
Leonard Waverman; London Business School and Law & Economics Consulting Group; Marc Shankerman, London Business School; Lorenzo Pupillo, Telecom Italia

DISCUSSANT:
Luigi Prosperetti, University of Milan-Italy

LOCATION: PLAZA III
SESSION: Unbundled Access
CHAIR: Daniel Kelley, HAI Consulting, Inc.

PAPERS:
So Near and Yet So Far: A Comparative Analysis of Network Unbundling and Local Competition in Canada and the U.S.A.
Hudson Janisch, University of Toronto

Regulating Prices to Equal Forward Looking Costs: Cost-Based Prices or Price-Based Costs?
Michael Salinger, Boston University

Vertical Disintegration: Optimal Pricing for Wholesale Telecommunications Services
Douglas Meredith, University of Maryland, Ph.D. Student and John Staurulakis, Inc.

The Economics of BOC Long Distance Entry While charging Above Costs Access Rates
Gary Biglaiser, University of North Carolina, Patrick DeGraba and Michael Kende, Federal Communications Commission
SUNDAY, OCTOBER 4, 1998
10:30am-12:00am (Con’t)

LOCATION: BEECH ROOM
SESSION: The Transition To Digital TV
Chair: Jonathan Levy, Federal Communications Commission

PAPERS:
Selling Digital Television to the Consumer –
Lessons from the Computer Trenches: It's Got to be More Than Pretty Pictures
James Burger, Dow, Lohnes & Albertson

Digital Television Developments in the Cable Industry
David Reed and Jerry Bennington, CableLabs

Surviving the Digital Chasm – The Broadcasters' Business Challenge
Nat Ostroff, Sinclair Broadcast Group, Inc.

DTV: Things to Come
Branko Gerovac, Massachusetts Institute of Technology

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

LUNCH PLENARY: The Proper Role Of Antitrust In 21st Century Telecom Regulation
CHAIR: Thomas Krattenmaker, Federal Communication Commission
PANELISTS: Mike Riordan, Boston University
Larry Lessig, Harvard Law School
Howard Shelanski, Council of Economic Advisors
1:45pm-3:15pm
LOCATION: PLAZA I
SESSION: Telecommunications Act
CHAIR: Robert Pepper, Federal Communications Commission

PAPERS:
- Promoting Telephone Competition: A Simpler Way?
  Tim Brennan, University of Maryland
- The Internet and "Telecommunications Services": Access Charges, Universal Service
  Mechanisms and Other Flotsam of the Regulatory System
  Jonathan Weinberg, Wayne State University
- Dynamics of Price Regulation: I. Basic Model
  Michael Riordan, Boston University and Gary Biglaiser, University of North Carolina
- When Agencies are Captured by Experts: The Irony of Telecommunications Reform
  D. Linda Garcia, Foundation for Rural Service

DISCUSSANT: Robert Pepper, Federal Communications Commission

LOCATION: PLAZA II
SESSION: Regulatory Experience - Developed Countries
CHAIR: Martin Cave, Brunel University

PAPERS:
- An Econometric Analysis of Institutional Factors in Telecommunication Reform
  Gerald Brock and Yun-tsai Chou, The George Washington University
- The New Regulatory Regime and Market Entry in Germany
  Ernst-Olav Ruhle and Karl-Heinz Neumann, RWE Teliance AG
- Transforming the Management of Telcos in Australia and New Zealand
  Mark Shadur and Rene Kienzle, Queensland University of Technology

DISCUSSANT: Martin Cave, Brunel University
SUNDAY, OCTOBER 4, 1998
1:45pm-3:15pm (Con't)

LOCATION: PLAZA III
SESSION: IP Telephony Engineering Cost Models
CHAIR: Stagg Newman, Federal Communications Commission

PAPERS:
- Internet Telephony or Circuit Switched Telephony: Which is Cheaper?
  Martin Weiss and Junseok Hwang, University of Pittsburgh
- Cost-Engineering Model of IP Telephony on Corporate Intranet
  Wei Deng, Carnegie Mellon University, Ph.D. Student
- IP-Based Residential Network: An Economic and Public Policy Analysis
  Kanchana Wanichkorn, Daniel Fryxell and Marvin Sirbu, Carnegie Mellon University

LOCATION: BEECH ROOM
SESSION: Electronic Commerce
CHAIR: Nicholas Economides, New York University

PAPERS:
- The Social Cost of Cheap Pseudonyms: Fostering Cooperation on the Internet
  Paul Resnick, University of Michigan and Eric Friedman, Rutgers University
- Public vs. Private Networks: The Effect on Market Structures in Electronic Commerce
  Alice Chan, Cornell University; Charles Steinfield, Michigan State University and Robert Kraut, Carnegie Mellon University
- Bundling and Competition on the Internet
  Yannis Bakos, New York University and Erik Brynjolfsson, Massachusetts Institute of Technology and Stanford University

3:15pm-3:45pm COFFEE BREAK
LOCATION: FOYER
3:45pm-5:15pm

SESSIONS

LOCATION: PLAZA I
SESSION: States
CHAIR: Richard Taylor, Penn State University

PAPERS:
Interconnection Pricing and Competition in Local Telephone and Internet
Carolyn Gideon, Harvard University
Determining the Rules of the Game: Regulatory Regime Adoption in the U.S. Telecommunications Industry
James Dewey, University of Florida
Spectrum Auctions, the Telecommunication Act of 1996 and Local Governments' "Wireless Telecommunication Policies"
Seongcheol Kim and Thomas Muth, Michigan State University
ADSL Deployment: Law, Economics and Strategy
David Pearah, Massachusetts Institute of Technology

LOCATION: PLAZA II
SESSION: Internet And Telephone Numbers And Names
CHAIR: Sharon Eisner Gillett, Massachusetts Institute of Technology

PAPERS:
Funding Models for AIN-Based Local Number Portability
Martin Weiss and Douglas Sicker, University of Pittsburgh
Economic Analysis of Address Portability
Bridger Mitchell and Padmanabhan Srinagesh, Charles River Associates
Trademarks and Domain Names: Property Rights and Institutional Evolution in Cyberspace
Milton Mueller, Syracuse University

DISCUSSANT: David Farber, University of Pennsylvania
SUNDAY, OCTOBER 4, 1998
3:45pm-5:15pm (Con’t)
LOCATION: PLAZA III
SESSION: Software Competition
CHAIR: Glenn Woroch, University of California, Berkeley

PAPERS:
Durable Goods Monopoly with Network Externalities with Application to the PC Operating Systems Market
Nicholas Economides, New York University
Strategic Coordination Between Hardware and Software Producers in the Presence of Network Externalities
Sangin Park, SUNY at Stony Brook
Effecting a Price Squeeze Through Bundled Pricing
Steve Wildman, Northwestern University and Debra Aron, LECG
Influencing Software Usage
Lorrie Faith Cranor and Rebecca Wright, AT&T Labs-Research

LOCATION: BEECH ROOM
SESSION: Social Issues In Universal Service
CHAIR: Loy Singleton, University of Alabama

PAPERS:
Universalizing Universal Service Obligation: A European Perspective
Barbara Bardzki, Glasgow Caledonian University and John Taylor
From Welfare to Innovation: Toward a New Rationale for Universal Service
Francois Bar, Stanford University and Annemarie Munk Riis, Copenhagen Business School
The Persistent Gap in Telecommunications: Toward Hypotheses and Answers
Jorge Reina Schement and Scott Forbes, Penn State University
Without Public Peer: The Potential Regulatory and Universal Service Consequences of Internet Balkanization
Robert Frieden, Pennsylvania State University
DINNER INFORMATION

LOCATION: FRONT UPSTAIR FOYER BY FRONT DOORS

6:00pm
BUSES BEGIN LOADING
DINNER WILL BE AT THE FISH MARKET IN OLD TOWN ALEXANDRIA

6:30pm
LAST BUS LEAVES FROM RADISSON TO FISH MARKET

9:00pm
1st RETURN BUS FROM DESIGNATED PICK UP SPOT IN OLD TOWN RETURN TO RADISSON

10:30pm
2nd RETURN BUS FROM DESIGNATED PICK UP SPOT IN OLD TOWN RETURN TO RADISSON

12:00am*
FINAL RETURN BUS FROM DESIGNATED PICK UP SPOT IN OLD TOWN RETURN TO RADISSON

*If 12:00am bus is missed you must return to Radisson on your own.

PLEASE NOTE TIME CHANGES FOR MONDAY SCHEDULE FROM PREVIOUS YEARS.
PLEASE NOTE TIME CHANGES FOR MONDAY SCHEDULE FROM PREVIOUS YEARS.

MONDAY, OCTOBER 5, 1998

7:30am-12:00pm  REGISTRATION
LOCATION: LOWER FOYER

7:00am-8:00am  BREAKFAST
LOCATION: TERRACE BALLROOM

8:00am-9:30am  SESSIONS
LOCATION: PLAZA I
SESSION: Telecoms Reform In Developing Countries
CHAIR: Patricia Aufderheide, American University

PAPERS:
Advanced IT Markets in Backward Countries: Where Do They Come From?
Ernest Wilson, University of Maryland
Policy Design for Telecom Infrastructure Growth: Competition as a Tool for Network Expansion
Anupama Dokeniya and William Melody, Delft University of Technology
"Peripheral Realism" Communications Policy in Brazil
Venicio A. de Lima, Universidade de Brasilia
GII Project Initiatives: A Critical Assessment
Heather Hudson, University of San Francisco
MONDAY, OCTOBER 5, 1998
8:00am-9:30am (Con't)

LOCATION: PLAZA II
SESSION: Economic Analysis Of Universal Service
CHAIR: Bridger Mitchell, Charles River Associates

PAPERS: Using Cost Proxy Models to Analyze Universal Service Funding Options
PB Schechter, Colorado Office of Consumer Counsel
Proxy Models and the Funding of Universal Service
David Gabel, Queens College and Scott Kennedy
Some Economics of COLR (Carrier of Last Resort) Auctions
Valter Sorana, Stanford University
The Cost of the Local Telecommunications Network: A Comparison of Minimum Spanning Trees and the HAI Model
Christian Dippon; National Economic Research Assoc., and Kenneth Train; University of California, Berkeley and National Economic Research Assoc.

DISCUSSANT: Ingo Vogelsang, Boston University

LOCATION: PLAZA III
SESSION: Antitrust Concerns In Network Industries
CHAIR: John Woodbury, Charles River Associates

PAPERS: Why Aren't The RBOC's Entering the Local and Long-distance Markets Outside of Their Incumbent Territories?
Susan McMaster, EconOne Research
Regulating Anti-competitive Behavior in the Internet Market: An Applied Imputation Model for Developing Countries, the Case of Peru
Arturo Briceno, OSIPTEL
Competitive Incentives in Vertical Mergers
Jane Murdoch, Charles River Associates, Inc.
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<th>Time</th>
<th>Event</th>
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<td>9:30am-9:40am</td>
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<td>9:40am-11:10am</td>
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<td>LOCATION:</td>
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<tr>
<td>SESSION:</td>
<td>The Federal Policy Research Agenda</td>
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<td>CHAIR:</td>
<td>Brian Kahin, White House Office of Science &amp; Technology Policy</td>
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<td>PANEL:</td>
<td>Becky Burr, National Telecommunications &amp; Information Admin.</td>
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<td>Bennett Bertenthal, National Science Foundation</td>
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<td>Kathryn Brown, Federal Communications Commission</td>
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<td>Christopher Kelly, Department of Justice</td>
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<td>Susan Desanti, Federal Trade Commission</td>
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<td>SESSION:</td>
<td>Intellectual Property</td>
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<td>CHAIR:</td>
<td>Wendy Gordon, Boston University</td>
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<td>PAPERS:</td>
<td>Shared Information Goods</td>
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<td>Douglas Lichtman, University of Chicago, Erik Brynjolfsson, Massachusetts Institute of Technology and Stanford University and Yannis Bakos, New York University</td>
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<td>The Commons as a Neglected Factor of Information Policy</td>
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<td>Yochai Benkler, New York University</td>
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<td>Copyright Law and Price Discrimination</td>
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<td>Michael Meurer, Boston Univ. and SUNY at Buffalo</td>
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<td>DISCUSSANT:</td>
<td>Ken Carter, CITI</td>
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MONDAY, OCTOBER 5, 1998
11:30am-1:00pm (Con't)

LOCATION:  PLAZA II
SESSION:  Inter/Intranet: Effect On Organizations And Industry
          Jeff MacKie-Mason, University of Michigan

PAPERS:  Internet Price Discrimination: Self-Regulation, Public Policy, and Global Electronic Commerce
          Joseph Bailey, University of Maryland
          The Impact of Settlement Issues on Business Evolution in the Internet
          Sanford Marble, Bellcore
          Intranets and Organizational Change: The Evolutionary Deployment of Corporate Information Infrastructure
          Francois Bar and Neil Kane, Stanford University

LOCATION:  PLAZA III
SESSION:  Spectrum Allocation And Auctions
CHAIR:  Evan Kwerel, Federal Communications Commission

PAPERS:  Collusive Bidding: Lessons from the FCC Spectrum Auctions
          Peter Cramton and Jesse Schwartz, University of Maryland
          Combination Bidding in Spectrum Auctions
          Paul Milgrom, Stanford University

DISCUSSANT:  Gregory Rosston, Stanford University

1:00pm-2:00pm  LUNCH
LOCATION:  BALLROOM