

**TWENTIETH ANNUAL  
TELECOMMUNICATIONS POLICY  
RESEARCH CONFERENCE**

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**FUNDING:**

**THE JOHN AND MARY R. MARKLE FOUNDATION  
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**1992 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 award is presented to:

**WILLIAM R. MEYER, JR.  
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**TWENTIETH ANNUAL  
TELECOMMUNICATIONS POLICY  
RESEARCH CONFERENCE**

**HOLIDAY INN, SOLOMONS, MARYLAND  
September 12-14, 1992**

**DETAILED PROGRAM**

**SATURDAY, SEPTEMBER 12, 1992**

**3:00pm-6:30pm**

**REGISTRATION  
LOCATION: MILL CREEK**

**5:30pm-6:30pm**

**RECEPTION/CASH BAR  
LOCATION: CONCOURSE**

**6:30pm-**

**DINNER  
LOCATION: PATUXENT BALLROOM**

**OPENING REMARKS:**

**JOHN C. PANZAR  
ORGANIZING COMMITTEE CHAIR**

**OPENING SESSION:**

**TELECOMMUNICATIONS POLICY RESEARCH:  
POLICYMAKERS' PERSPECTIVES**

**SESSION CHAIR:**

**GAIL GARFIELD SCHWARTZ**

**SPEAKERS:**

**DOUGLAS WEBBINK  
FEDERAL COMMUNICATIONS COMMISSION**

**KENNETH GORDON  
MAIN PUBLIC UTILITIES COMMISSION**

**DAVID COLVILLE  
CANADIAN RADIO-TELEVISION AND  
TELECOMMUNICATIONS COMMISSION**

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**SUNDAY, SEPTEMBER 13, 1992**

**8:00am-5:00pm**

**REGISTRATION  
LOCATION: MILL CREEK**

**7:30am-8:30am**

**BREAKFAST  
LOCATION: PATUXENT BALLROOM**

**SESSIONS:**

**8:30am - 10:00am**

**LOCATION:**

**DRUM POINT ROOM**

**SESSION:**

**NEW WIRELESS VOICE AND DATA SERVICES: PCS/N  
AND WIN**

**SESSION CHAIR:**

**STEVE WILDMAN, NORTHWESTERN UNIVERSITY**

**SUNDAY, SEPTEMBER 13, 1992**

**8:30am-10:00am**

- PAPERS:**
- ESTIMATE OF THE LOSS TO THE UNITED STATES  
CAUSED BY THE FCC'S DELAY IN LICENSING  
CELLULAR TELECOMMUNICATIONS**  
JEFFREY H. ROHLFS, CHARLES JACKSON & TRACEY  
KELLY, NATIONAL ECONOMIC RESEARCH  
ASSOCIATES, INC.
- OPEN ACCESS TO SPECTRUM FOR PERSONAL  
COMMUNICATION SERVICES**  
MARVIN A. SIRBU AND HECTOR SALGADO-GALICIA,  
CARNEGIE-MELLON UNIVERSITY
- ECONOMIC AND POLICY ISSUES ASSOCIATED WITH  
DEVELOPMENTS IN PERSONAL COMMUNICATION  
SERVICES**  
DALE HATFIELD, HATFIELD ASSOCIATES, INC.
- MOBILE COMMUNICATIONS IN EUROPE**  
JURGEN MULLER, DIW AND SAADET TOKER,  
CBS
- DISCUSSANT:** ROBERT PEPPER, FEDERAL COMMUNICATIONS  
COMMISSION
- 

- LOCATION:** *CEDAR POINT ROOM*
- SESSION:** REGULATION AND DEREGULATION OF  
TELECOMMUNICATIONS SERVICES
- SESSION CHAIR:** KAREN PALMER, RESOURCES FOR THE FUTURE
- PAPERS:**
- DISCRIMINATION IN THEORY, BY VERTICALLY  
INTEGRATED REGULATED FIRMS**  
TIM BRENNAN, UNIVERSITY OF MARYLAND,  
BALTIMORE COUNTY
- THE EFFECTS OF CABLE TELEVISION  
DEREGULATION ON PRICES AND WELFARE**  
MICHAEL SALINGER, BOSTON UNIVERSITY
- THE ECONOMIC WELFARE EFFECTS OF EXTENDED  
AREA TELEPHONE SERVICE**  
JOHN MAYO, THE UNIVERSITY OF TENNESSEE
- DISCUSSANTS:** JOHN HARING, NATIONAL ECONOMIC RESEARCH  
ASSOCIATES, INC.  
MARK KENNET, TULANE UNIVERSITY
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**SUNDAY, SEPTEMBER 13, 1992**

**8:30am-10:00am**

***LOCATION:*** **COVE POINT ROOM**

**SESSION:** **PRIVATIZATION OF TELECOMMUNICATION CARRIERS**

**SESSION CHAIR:** **INGO VOGELSANG, BOSTON UNIVERSITY**

**PAPERS:** **A CASE STUDY IN PRIVATIZATION: THE CHILEAN TELEPHONE COMPANY**  
**ROLF LUDERS, CATHOLIC UNIVERSITY**

**REGULATIONS, INSTITUTIONS AND COMMITMENT: THE JAMAICAN TELECOMMUNICATIONS SECTOR**  
**PABLO SPILLER, UNIVERSITY OF ILLINOIS**

**WELFARE CONSEQUENCES OF PRIVATIZING BRITISH TELECOM**  
**INGO VOGELSANG, BOSTON UNIVERSITY**

**DISCUSSANTS:** **AHMED GALAL, THE WORLD BANK**  
**MARTIN CAVE, BRUNEL UNIVERSITY**

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**10:00am-10:30am**

**COFFEE BREAK**

**SESSIONS:**

**10:30am-12:00pm**

***LOCATION:*** **DRUM POINT ROOM**

**SESSION:** **STANDARDS AND INTELLECTUAL PROPERTY RIGHTS**

**SESSION CHAIR:** **PAMELA SAMUELSON, UNIVERSITY OF PITTSBURGH**

**PAPERS:** **THE TREATMENT OF INTELLECTUAL PROPERTY IN NETWORK INDUSTRIES**  
**JOSEPH FARRELL, UNIVERSITY OF CALIFORNIA AT BERKELEY**  
**SOME NEW INTELLECTUAL PROPERTY ISSUES IN STANDARDIZATION**  
**MARTIN B.H. WEISS AND MICHAEL D. SPRING, UNIVERSITY OF PITTSBURGH**

**GOVERNMENTAL RESTRICTIONS ON THE DEVELOPMENT AND DISSEMINATION OF CRYPTOGRAPHIC TECHNOLOGIES: THE CONTROVERSY OVER NIST STANDARDIZATION ON DSS AND RELATED INTELLECTUAL PROPERTY ISSUES**  
**DAVID SOBEL, COMPUTER PROFESSIONALS FOR SOCIAL RESPONSIBILITY**

**DISCUSSANT:** **JANUSZ ORDOVER, U.S. DEPARTMENT OF JUSTICE**

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**SUNDAY, SEPTEMBER 13, 1992**

**10:30am-12:00pm**

**LOCATION:** *CEDAR POINT ROOM*

**SESSION:** **ISSUES IN INTERNATIONAL TELECOMMUNICATION SERVICES**

**SESSION CHAIR:** JURGEN MULLER, DIW

**PAPERS:** **HUMAN RIGHTS AND THE ADVANCED INTELLIGENT NETWORK**  
AL HAMMOND, NEW YORK LAW SCHOOL

**INTERNATIONAL ACCOUNTING RATES AND THE INCENTIVE TO CHEAT**  
ROBERT FRIEDEN, PENNSYLVANIA STATE UNIVERSITY

**SUNK IN SPACE - THE ECONOMICS OF SATELLITE SERVICE PROVISION**  
LEONARD WAVERMAN AND HENDRIK ROLLER, UNIVERSITY OF TORONTO

**DISCUSSANTS:** JACQUES ARLANDIS, IDATE

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**LOCATION:** *THEATRE*

**SESSION:** **OWNERSHIP ISSUES IN MASS MEDIA**

**SESSION CHAIR:** JONATHAN LEVY, FEDERAL COMMUNICATIONS COMMISSION

**PAPERS:** **OWNERSHIP AND PROGRAM DIVERSITY: AN EMPIRICAL EXPLORATION OF RADIO BROADCASTING**  
JOHN WOODBURY, MICA, INC. AND ROBERT P. ROGERS, FCC

**MULTIPLE OWNERSHIP RULES IN TELEVISION: PRICING EFFECTS IN THE MARKET FOR STATION TRANSFERS**  
GARY M. FOURNIER, FLORIDA STATE UNIVERSITY

**MINORITY PREFERENCES IN BROADCASTING: AN ECONOMETRIC ANALYSIS**  
MATTHEW L. SPITZER, UNIVERSITY OF SOUTHERN CALIFORNIA AND JEFF DUBIN, ARTHUR ANDERSEN

**DISCUSSANTS:** FLORENCE SETZER, FEDERAL COMMUNICATIONS COMMISSION  
ROBIN PRAGER, VANDERBILT UNIVERSITY

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**SUNDAY, SEPTEMBER 13, 1992**

**10:30am-12:00pm**

***LOCATION:***

***COVE POINT ROOM***

**SESSION:**

**LOCAL EXCHANGE COMPETITION**

**SESSION CHAIR:**

ALEXANDER C. LARSON, SOUTHWESTERN BELL  
TELEPHONE COMPANY

**PAPERS:**

**MODELING AND REGULATING COMPETITION  
BETWEEN ALTERNATIVE TELECOMMUNICATIONS  
TECHNOLOGIES**  
MARTIN CAVE AND MARK DONELY, BRUNEL  
UNIVERSITY

**ECONOMICS OF LOCAL LOOP COMPETITION BY  
RADIO ACCESS**  
NICOLAS WILLIAMS, TOUCHE ROSS

**NATURAL MONOPOLY IN THE TELEPHONE  
INDUSTRY: CONCLUSIONS FROM INTRA-FIRM COST  
FUNCTION**  
RICHARD T. SHIN , FEDERAL TRADE COMMISSION  
AND JOHN S. YING, MATHAMATICA POLICY  
RESEARCH INC.

**DISCUSSANT:**

CALVIN MONSON, ILLINOIS COMMERCE  
COMMISSION

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**12:00pm-1:30pm**

**LUNCH**

***LOCATION: PATUXENT BALLROOM***

**SESSIONS:**

**1:30pm-3:00pm**

***LOCATION:***

***DRUM POINT ROOM***

**SESSION:**

**ECONOMIC APPROACHES TO SPECTRUM  
MANAGEMENT**

**SESSION CHAIR:**

EVAN KWEREL, FEDERAL COMMUNICATIONS  
COMMISSION

**PAPERS:**

**THE COMMODITY APPROACH FOR PCS: AN  
ANALYSIS OF NON-EXCLUSIVE LICENSE**  
IRA BARRON, BELLCORE

**FEE-BASED INCENTIVES AND THE EFFICIENT USE OF  
SPECTRUM**  
TERRY SCHROEPFER, SOUTHWESTERN BELL  
TELEPHONE

**SUNDAY, SEPTEMBER 13, 1992**

**1:30am-3:00pm**

**TOWARD A MARKET ORIENTED ALLOCATION  
SYSTEM FOR THE RADIO FREQUENCY SPECTRUM**  
L. BENZONI, E. JEUX, E. KALMAN AND C.H. PICORY,  
ENST

**DISCUSSANTS:** BRIDGER MITCHELL, THE RAND CORPORATION  
JOHN WILLIAMS, FEDERAL COMMUNICATIONS  
COMMISSION

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**LOCATION:** *CEDAR POINT ROOM*

**SESSION:** **INCENTIVES FOR INNOVATION UNDER  
COMPETITION AND REGULATION**

**SESSION CHAIR:** MICHAEL RIORDAN, BOSTON UNIVERSITY

**PAPERS:** **NEW TECHNOLOGY ADOPTION IN U.S.  
TELECOMMUNICATIONS: THE ROLE OF MARKET  
AND FIRM INDUCEMENTS**  
SUMIT K. MAJUMDAR, THE UNIVERSITY OF  
MICHIGAN

**DYNAMICS OF PRODUCTIVITY IN THE  
TELECOMMUNICATIONS EQUIPMENT INDUSTRY**  
STEVEN OLLEY, NEW YORK UNIVERSITY AND ARIEL  
PAKES, YALE UNIVERSITY

**AN EMPIRICAL MODEL OF INNOVATIVE ENTRY AND  
A TEST OF STRATEGIC DETERRENCE: AN  
APPLICATION TO LOCAL ACCESS MARKETS**  
GLENN WOROCH, GTE LABORATORIES

**DISCUSSANTS:** NEIL GANDAL, TEL AVIV UNIVERSITY  
SHANE GREENSTEIN, UNIVERSITY OF ILLINOIS  
MICHAEL RIORDAN, BOSTON UNIVERSITY

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**LOCATION:** *COVE POINT ROOM*

**SESSION:** **TELECOMMUNICATIONS INFRASTRUCTURE AND  
ECONOMIC DEVELOPMENT**

**SESSION CHAIR:** ROBERT E. DANSBY, BELLCORE

**PAPERS:** **THE ROLE OF TELECOMMUNICATIONS INFRA-  
STRUCTURE IN ECONOMIC DEVELOPMENT BUSINESS  
ATTRACTION AND BUSINESS RETENTION**  
LAWTON C. MITCHEL, DELOITTE & TOUCHE

**THE IMPORTANCE OF TELECOMMUNICATIONS IN  
AUSTRALIA'S ECONOMIC DEVELOPMENT AND THE  
LIKELY EFFECTS OF TELECOMMUNICATIONS  
REFORM**  
ALEX ARENA, AUSTEL

**SUNDAY, SEPTEMBER 13, 1992**

**1:30am-3:00pm**

**EXTERNALITIES, COMPLEMENTARITIES AND  
INDUSTRIAL DYNAMICS IN TELECOMMUNICATIONS**  
CRISTIANO ANTONELLI, UNIVERSITA DEGLI STUDI  
TOVINO

**PERCOLATION STRUCTURES, MARKOV RANDOM  
FIELDS AND THE ECONOMICS OF EDI STANDARDS  
DIFFUSION**

PAUL A. DAVID, STANFORD UNIVERSITY AND  
DOMINIQUE FORAY, ECOLE CENTRALE PARIS

**DISCUSSANT:** BYORN WELLENIUS, THE WORLD BANK

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**LOCATION:** *THEATRE*

**SESSION:** **INTERNET BACKBONE AND EXCHANGE SERVICE:  
ACCESS AND PRICING ISSUES**

**SESSION CHAIR:** TONY RUTKOWSKI, SPRINT INTERNATIONAL

**PANEL:** MITCH KAPOR, ELECTRONIC FRONTIER  
FOUNDATION, INC.

RICHARD MANDLEBAUM  
CENTER FOR ADVANCED TECHNOLOGY IN  
TELECOMMUNICATIONS

STANLEY BESEN  
CHARLES RIVER ASSOCIATES

BRUCE MCCONNELL  
OFFICE OF MANAGEMENT AND BUDGET

ROBERT DOYLE  
SPRINT GOVERNMENT SYSTEMS

CINDI MILLS  
BBN

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**3:00pm-3:30pm**

**COFFEE BREAK**



**SESSION:**

**3:30pm-5:00pm**

**LOCATION:** *CHESAPEAKE BALLROOM*

**PLENARY SESSION:** *PERSONAL ISDN*

**SESSION CHAIR:** *BRIAN KAHIN, HARVARD UNIVERSITY*

**PANEL:** *MITCHEL KAPOR, ELECTRONIC FRONTIER  
FOUNDATION, INC.*

*COR BERBEN, COMMISSION OF THE EUROPEAN  
COMMUNITIES*

*RICHARD SOLOMON, MASSACHUSETTS INSTITUTE  
OF TECHNOLOGY*

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**MONDAY, SEPTEMBER 14, 1992**

**7:30am-8:30am**

**BREAKFAST**  
**LOCATION: *PATUXENT BALLROOM***

**SESSIONS:**

**8:30am-10:00am**

**LOCATION:** *DRUM POINT ROOM*

**SESSION:** *PRIVATE NETWORKS AND PUBLIC NETWORKS*

**SESSION CHAIR:** *ELI M. NOAM, COLUMBIA UNIVERSITY*

**PANEL:** *COR BERBEN, COMMISSION OF THE EUROPEAN  
COMMUNITIES*

*MICHAEL EINHORN, U.S. DEPARTMENT OF JUSTICE*

*HAJIME ONIKI, OSAKA UNIVERSITY*

*TERRENCE MCGARTY, TELMARC GROUP, INC.*

*AINE NISHUILLEABHAIN, COLUMBIA UNIVERSITY*

*DALE LEHMAN, FORT LEWIS COLLEGE*

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**LOCATION:** *THEATRE*

**SESSION:** *FIRST AMENDMENT ISSUES IN ELECTRONIC MEDIA*

**SESSION CHAIR:** *ALLEN S. HAMMOND, NEW YORK LAW SCHOOL*

**PAPERS:** *FACSIMILES AS A "TECHNOLOGY OF FREEDOM"*  
*DANIEL BRENNER, NATIONAL CABLE TELEVISION  
ASSOCIATION*

**MONDAY, SEPTEMBER 14, 1992**

**8:30am-10:00am**

**FCC MINORITY AND GENDER PREFERENCE POLICIES**  
VALERIE SUE, STANFORD UNIVERSITY

**BUT NOT THE OWNERSHIP THEREOF: THE  
PECULIAR PROPERTY STATUS OF THE BROADCAST  
LICENSE**

THOMAS STREETER, THE UNIVERSITY OF VERMONT

**FIRST AMENDMENT POLICY AND THEORIES OF  
PROPERTY**

TIM BRENNAN, UNIVERSITY OF MARYLAND,  
BALTIMORE COUNTY

**DISCUSSANT:** MICHAEL BOTEIN, NEW YORK LAW SCHOOL

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**LOCATION:** CEDAR POINT ROOM

**SESSION:** STANDARDS AND COMPATIBILITY

**SESSION CHAIR:** JOSEPH FARRELL, UNIVERSITY OF CALIFORNIA,  
BERKELEY

**PAPERS:** STANDARD-SETTING IN HIGH-DEFINITION  
TELEVISION  
JOSEPH FARRELL, UNIVERSITY OF CALIFORNIA,  
BERKELEY AND CARL SHAPIRO, HAAS SCHOOL OF  
BUSINESS

**BENEFITS AND PITFALLS OF NETWORK  
INTERCONNECTION**  
NICHOLAS ECONOMIDES, NEW YORK UNIVERSITY

**NETWORK MANAGEMENT STANDARDS AND THE  
ROLE OF THE INTERNET ENGINEERING TASK FORCE**  
WILLIAM LEHR, COLUMBIA BUSINESS SCHOOL

**DISCUSSANTS:** LELAND JOHNSON, THE RAND CORPORATION  
NEIL GANDAL, TEL AVIV UNIVERSITY  
PAUL A. DAVID, STANFORD UNIVERSITY

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**LOCATION:** COVE POINT ROOM

**SESSION:** INTERNATIONAL COMMUNICATION FLOWS:  
OWNERSHIP AND TRADE PATTERNS

**SESSION CHAIR:** DAVID WATERMAN, UNIVERSITY OF SOUTHERN  
CALIFORNIA

**PAPERS:** GLOBALIZATION OF MASS MEDIA UPDATE: FOREIGN  
OWNERSHIP RESTRICTIONS  
CHERYL GLICKFIELD, U. S. DEPARTMENT OF  
COMMERCE

**MONDAY, SEPTEMBER 14, 1992**

**8:30am-10:00am**

**THE POSITIONING OF PRIVATE AND PUBLIC CHANNELS IN EUROPE**  
REMY LE CHAMPION AND PIERRE RASAMOELA,  
CONSEIL SUPERIEUR DE L'AUDIOVISUEL

**REGIONAL TV MARKETS AND TV PROGRAM FLOWS**  
JOSEPH D. STRAUBHAAR, SUG-MIN YOUN, LUISA HA,  
SEEMA SHRIKHANDE, CONSUELO CAMPBELL, KAREN  
CHAMPAGNIE, AND MICHEL ELASMAR, MICHIGAN  
STATE UNIVERSITY

**THE ECONOMICS OF TELEVISION PROGRAM  
PRODUCTION AND TRADE IN FAR EAST ASIA**  
DAVID WATERMAN, EVERETT ROGERS & LIN BIN,  
UNIVERSITY OF SOUTHERN CALIFORNIA

**DISCUSSANT:** STANLEY BESEN, CHARLES RIVER ASSOCIATES

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**10:00am-10:30am**

**COFFEE BREAK**

**SESSIONS:**

**10:30am-12:00pm**

**LOCATION:** DRUM POINT ROOM

**SESSION:** POLITICAL ECONOMY OF TELECOMMUNICATIONS  
REGULATION

**SESSION CHAIR:** RONALD CASS, BOSTON UNIVERSITY

**PAPERS:** **BEHIND THE REVOLVING DOOR: A NEW VIEW OF  
PUBLIC UTILITY REGULATION**  
DAVID SALANT, GTE LABORATORIES INC.

**THE POLICY CONSEQUENCES OF APPOINTMENT  
METHODS AND PARTY CONTROL**  
SUSAN SMART, INDIANA UNIVERSITY

**JUDICIAL REVIEW PROVISIONS AS A POLITICAL  
VARIABLE**  
CHARLES R. SHIPAN, UNIVERSITY OF IOWA

**DISCUSSANTS:** RONALD CASS, BOSTON UNIVERSITY  
ELI NOAM, COLUMBIA UNIVERSITY  
EVAN KWEREL, FEDERAL COMMUNICATIONS  
COMMISSION

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**MONDAY, SEPTEMBER 14, 1992**

**10:30am-12:00pm**

**LOCATION:**

***CEDAR POINT ROOM***

**SESSION:**

**EFFECTS OF COMMUNICATION TECHNOLOGY ON THE ORGANIZATION OF TASKS WITHIN AND ACROSS ORGANIZATIONAL BOUNDARIES**

**SESSION CHAIR:**

**RONALD E. RICE, RUTGERS UNIVERSITY**

**PAPERS:**

**LEVERAGING TECHNOLOGICAL STRATEGIES THROUGH INVESTMENTS IN TECHNOLOGICAL INFRASTRUCTURES: CONCEPTUAL IDEAS AND RESEARCH PROPOSITIONS**

**VICTORIA MITCHELL AND DR. ROBERT ZMUD, FLORIDA STATE UNIVERSITY**

**STRATEGIES AND IMPLICATIONS OF INTERNATIONAL NETWORKED VIDEOTEX SYSTEMS**

**CHARLES W. STEINFELD, MICHIGAN STATE UNIVERSITY AND LAURENCE CABY, PIERRE VIALLE**

**POWER, TRUST, AND INTERDEPENDENCE: CRITICAL FACTORS IN THE ADOPTION AND IMPLEMENTATION OF ELECTRONIC DATA INTERCHANGE**

**DR. PAUL HART AND CAROL SAUNDERS, FLORIDA ATLANTIC UNIVERSITY**

**NETWORK ANALYSIS AND COMPUTER-MEDIATED COMMUNICATION SYSTEMS**

**RONALD E. RICE, RUTGERS UNIVERSITY**

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**LOCATION:**

***COVE POINT ROOM***

**SESSION:**

**OPEN NETWORK ARCHITECTURE: PRICING ISSUES**

**SESSION CHAIR:**

**DAVID PEYTON, ITAA**

**PAPERS:**

**OPN IN THE EUROPEAN COMMUNITY: CURRENT STATE OF IMPLEMENTATION**

**COR BERBEN, COMMISSION OF THE EUROPEAN COMMUNITIES**

**ONA PRICING: THEORY AND PRACTICE**

**A. DANIEL KELLEY, HATFIELD ASSOCIATES, INC.**

**DISCUSSANTS:**

**ROBERT FRIEDEN, PENNSYLVANIA STATE UNIVERSITY**

**JAMES SCHLICHTING, FEDERAL COMMUNICATIONS COMMISSION**

**12:00pm-1:00pm**

**LUNCH**

**LOCATION: PATUXENT BALLROOM**