

Encouraging Entry into the Wideband LMS Market

We are left with the question of how best to open the market to greater competitive entry. Schmalensee and Taylor dwell at length on the infeasibility of spectrum sharing as a way to do so. They emphasize, among other factors, that (a) potential interference between users would add to uncertainty, therefore dampening the prospects for entry (at 5), (b) the costs of coordination to avoid interference may be high (at 34), (c) uncoordinated sharing is economically impractical (at 35-37), and (d) time and frequency-domain sharing impose significant costs (at 38).

SBMS, among many parties, agrees that unlimited sharing would be impractical. But this does not mean that wideband LMS should be left only to a maximum of two licensees per market. SBMS proposes that the two 8-megahertz bands each be divided into two 4-megahertz bands to permit as many as four firms to operate a non-shared basis. Within the context of this proposal, all of Schmalensee and Taylors' arguments against sharing are irrelevant.

members. His office focused on issues of (a) restricting government regulation in the domestic telephone and broadcasting fields, (b) expanding competitive pressures in the international communications industry, (c) possibilities for making more effective use of the radio spectrum, and (d) drafting legislation for the Administration and pursuing other policy options in response to problems of protecting individual privacy posed by the rapid growth of computer-based information systems. As Director of Research, President's Task Force on Communications Policy, he directed the staff activities and preparation of the Final Report (the "Rostow" report) delivered to the President in 1968. The report and accompanying staff papers addressed a wide range of issues in the telephone, cable, and broadcasting fields, with numerous specific recommendations for national policy.

**Energy.** He designed and supervised research dealing with identification and assessment of imperfections in the workings of energy markets, and evaluation of alternative remedies. In 1984, he completed a study on incentives to improve performance of electric utilities as the basis for testimony before the Arizona Corporation Commission involving proposed rate increases in that state in response to the use of nuclear power.

**Research and Development Strategies.** He has assessed alternative institutional arrangements for cooperative industry R&D with specific application to the cable television industry. This work contributed to the establishment in 1989 of the Cable Television Laboratories in Boulder, Colorado. In 1975-1976, he was coprincipal investigator of a study that analyzed federally funded projects designed to demonstrate the costs and benefits of new technologies. Drawing from a large number of past demonstration projects in the communications, transportation, housing, and other fields, the study established guidelines to facilitate the adoption and diffusion of new technology. He was the principal investigator of a study dealing with the alternative institutional arrangements for developing and commercializing breeder reactor technology. He has also evaluated the use of formal cost-benefit methodologies, relevant to a wide range of applications within and outside the R&D and telecommunications fields, in connection with work sponsored by RAND's Institute for Civil Justice.

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Chairman, Board of Directors, Telecommunications Policy Research Conference, Washington, D.C., 1992  
Chairman, Organizing Committee, Seventeenth Annual Telecommunications Policy Research Conference, Airlie House, VA, 1989.  
Board of Directors, Annual Telecommunications Policy Research Conference, 1989-1992.

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Board of Directors, International Institute for Communications,  
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Telecommunications Panel, American Society of International Law,  
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## **PUBLICATIONS**

### **RAND Reports**

*U.S.-Japan Relations in Telecommunications Equipment Trade*,  
MR-141-CUSJR, 1993.

*Entry by Telephone Companies into Cable Television: Regulation,  
Competition, and Public Policy*, MR-102-RC, 1993.

*Common Carrier Video Delivery by Telephone Companies*, R-4166-MF/RL,  
1992.

*Advances in Telecommunications Technologies That May Affect the  
Location of Business Activities*, N-3350-SF, 1991.

*Direct Broadcast Satellites: A Competitive Alternative to Cable  
Television?* (with Deborah R. Castleman), R-4047-MF/RL, 1991.

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Economics, and Public Policy*, (with David P. Reed), R-3906-MF/RL,  
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Telephone Industry*, R-3790, July 1989.

*Price Caps in Telecommunications Regulatory Reform*, N-2894-MF/RC,  
January 1989.

*The Future of INTELSAT in a Competitive Environment*, N-2848-DOS/RC,  
December 1988.

*Use of Excess Capacity in International Telecommunications to Deter  
Competitive Entry*, N-2792-MF, October 1988.

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R-3603-NSF/MF, February 1988.

*Issues in International Telecommunications: Government Regulation of  
Comsat*, R-3497-MF, January 1987.

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Forecasting or What?* N-2542-MF. December 1986.

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Besen).

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December 1984.

*Testimony and Exhibit (Arizona Public Service Rate Hearing)*, N-2191,  
September 1984.

*Scientific and Technology Information Transfer: Issues and Options*,  
N-2131-NSF, March 1984, (coauthored).

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Ownership Rules*, N-2097-MF (with Stanley M. Besen), January 1984.

*Competition and Cross-Subsidization in the Telephone Industry*,  
R-2976-RC, December, 1982.

*An Economic Analysis of Leased Channel Access for Cable Television*,  
(with Stanley M. Besen), R-2989-MF, December, 1982.

*After Energy Price Decontrol: The Role of Government Conservation  
Programs*, (with Stanley Besen), N-1903-DOE, October 1982.

*Cost-Benefit Analysis and Voluntary Safety Standards for Consumer  
Products*, R-2882-ICJ, 1982.

*An Analysis of the Department of Energy's Nonprice Regulation of  
Industrial Energy Use*, (with David Seidman), N-1876-DOE, May 1982.

JOHNSON, March 1993/5

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"Issues of Franchising," *Cable Communications in the Dayton Miami Valley: Basic Report*, The RAND Corporation, R-943-KF/FF, January 1972.

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"Telephone Company entry into Cable Television," *Telecommunications Policy*, (with David Reed), March 1992.

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"Distributional Effects of Regulation," in *Rate of Return Regulation*, Federal Communications Commission Future Planning Conference, July 1976.

"Government Regulation and Technological Advance," in *RAND 25th Anniversary Volume*, The RAND Corporation, 1973.

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"New Communications Technologies and National Security," *Adelphi Papers*, The Institute for Strategic Studies, March 1968.

"Joint Cost and Price Discrimination: The Case of Communications Satellites," *University of Chicago Journal of Business*, September 1963.

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"Behavior of the Firm Under Regulatory Constraint," *American Economic Review*, December 1962, (coauthored).

**Briefings, Seminars, and Interviews since January 1989**

"Price Cap Regulation" RAND Board of Trustees, Santa Monica, April 1989.

"Price Cap vs. Rate of Return Regulation", Center for Advanced Study in Telecommunications, Ohio State University, Columbus, June 1989.

"Pricing, Competition, and Regulation in the International Telephone Industry", International Telecommunications Symposium, International Center for Telecommunications Management, University of Nebraska, Omaha, June 1989.

"Future of Broadband Services to the Home", Annenberg School of Communications, USC, Los Angeles, February 1990.

"Deregulation of AT&T", radio interview, Money Radio Network, (20 affiliates nationwide), March 1990.

"Pricing and Regulation in the International Telephone Industry", Seminars in Regulatory Economics, Tucson, Arizona, April 1990.

"Residential Broadband Service by Telephone Companies", ICA/SuperComm '90 Convention, Atlanta, Georgia, April 1990.

"Price Reductions by AT&T", radio interview, Money Radio Network, June 1990.

"Price Cap Regulation", *Telecommunications Reports* Conference, Washington, D.C., July 1990.

"Telephone Company Entry into Cable Television", National Association of Regulatory Commissioners, Los Angeles, California, July 1990.

"IBNs and Direct Broadcast Satellites: Competitors to Cable TV?", American Enterprise Institute, Washington, D.C., October 1990.

"International Telecommunications Services", Center for International and Strategic Studies, Washington, D.C., October 1990.

"Regulatory Constraints on the Bell Companies", radio interview, Money Radio Network, October 1990.

"Broadband Services by Telephone Companies. A Competitor to Cable TV?", Executive Briefing, Fiber in the Local Loop sponsored by Lightwave Journal, Stanford, Calif., December 1990.

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"Policy Issues in Telecommunications", panel discussion, Government Accounting Office, Washington, D.C., February 1991.

"Telephone Company Entry into Cable Television", Columbia University, Telecommunications Conference, Washington, D.C., February 1991.

"Price Cap Regulation: Opportunities and Problems", *Telecommunications Reports*, Conference, Washington, D.C., May 1991.

"The Potential for Competition with Cable Television", Jones Intercable Conference, Vail, Colorado, August 1992.

"The Future of Wireless Cable", Annual Meeting Wireless Cable Television Association, Orlando, Florida, August 1992.

"Technical Standards for High Definition Television: Comments", Telecommunications Policy Conference, Solomons, Maryland, September 1992.

#### **Testimony before government agencies**

July 1990--Testimony before Senate Subcommittee on Communications, "Telephone Company Entry into Cable Television", Senate Bill S-2800, printed in S. Hrg. 101-886, July 24, 1990.

September 1984--Prefiled and oral testimony with cross examination before the Arizona Corporation Commission on incentive regulation of Arizona Public Service--a large electric utility.

Testimony on government regulation of cable television before Subcommittee on Communications, Committee on Interstate and Foreign Commerce, U.S. House of Representatives, printed in *Cable Television Oversight*--Part I, 94th Cong., 2nd Sess.

1970--Testimony on copyright and distant signal importation by cable television systems before the Commissioners of the Federal Communications Commission, meeting en banc.

#### **Consultancies**

Wometco Cable  
Interstate Natural Gas Pipeline Association  
Ford Foundation  
Arizona Corporation Commission  
Telus-AGT Limited  
New Jersey Cable Television Association

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Comtec Information Systems, Inc.  
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No addresses were provided by the following Commenters or the addresses provided were not available in the Commission's files and therefore the foregoing Motion Of Southwestern Bell Mobile Systems, Inc. To Accept Supplement To Reply Comments were not served on them:

John White  
Chair  
The Oregon Region Relay Council

James H. Walters  
Chair, PARC Legal Affairs Committee  
The Portland Amateur Radio Club

John T. Armstong  
PROBE Science

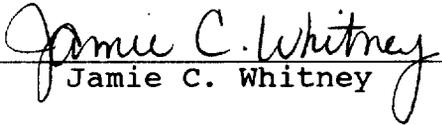
Raymond Chin  
Chairman  
Proxim Inc.

Thomas Ohlsson  
Product Marketing Manager  
SpectraLink Corporation

Gene Single, President  
The Technology Radio Amateur Club

Gambatte Digital Wireless

Maryland Transportation Authority

  
Jamie C. Whitney