

## Statement of Qualifications

### LEE L. SELWYN

Dr. Lee L. Selwyn has been actively involved in the telecommunications field for more than forty years, and is an internationally recognized authority on telecommunications regulation, economics and public policy. Dr. Selwyn founded the firm of Economics and Technology, Inc. in 1972, and has served as its President since that date. He received his Ph.D. degree from the Alfred P. Sloan School of Management at the Massachusetts Institute of Technology. He also holds a Master of Science degree in Industrial Management from MIT and a Bachelor of Arts degree with honors in Economics from Queens College of the City University of New York.

Dr. Selwyn has testified as an expert on rate design, service cost analysis, form of regulation, and other telecommunications policy issues in telecommunications regulatory proceedings before some forty state commissions, the Federal Communications Commission and the Canadian Radio-television and Telecommunications Commission, among others. He has appeared as a witness on behalf of commercial organizations, non-profit institutions, as well as local, state and federal government authorities responsible for telecommunications regulation and consumer advocacy.

He has served or is now serving as a consultant to numerous state utilities commissions including those in Arizona, Minnesota, Kansas, Kentucky, the District of Columbia, Connecticut, California, Delaware, Maine, Massachusetts, New Hampshire, Vermont, New Mexico, Wisconsin and Washington State, the Office of Telecommunications Policy (Executive Office of the President), the National Telecommunications and Information Administration, the Federal Communications Commission, the Canadian Radio-television and Telecommunications Commission, the United Kingdom Office of Telecommunications, and the Secretaria de Comunicaciones y Transportes of the Republic of Mexico. He has also served as an advisor on telecommunications regulatory matters to the International Communications Association and the Ad Hoc Telecommunications Users Committee, as well as to a number of major corporate telecommunications users, information services providers, paging and cellular carriers, and specialized access services carriers.

Dr. Selwyn has presented testimony as an invited witness before the U.S. House of Representatives Subcommittee on Telecommunications, Consumer Protection and Finance and before the U.S. Senate Judiciary Committee, on subjects dealing with restructuring and deregulation of portions of the telecommunications industry.

In 1970, he was awarded a Post-Doctoral Research Grant in Public Utility Economics under a program sponsored by the American Telephone and Telegraph Company, to conduct research on the economic effects of telephone rate structures upon the computer time sharing industry. This work was conducted at Harvard University's Program on Technology and Society, where he was appointed as a Research Associate. Dr. Selwyn was also a member of the faculty at the College of Business Administration at Boston University from 1968 until 1973, where he taught courses in economics, finance and management information systems.

*Statement of Qualifications – Lee L. Selwyn*

Dr. Selwyn has been an invited speaker at numerous seminars and conferences on telecommunications regulation and policy, including meetings and workshops sponsored by the National Telecommunications and Information Administration, the National Association of Regulatory Utility Commissioners, the U.S. General Services Administration, the Institute of Public Utilities at Michigan State University, the National Regulatory Research Institute at Ohio State University, the Harvard University Program on Information Resources Policy, the Columbia University Institute for Tele-Information, the International Communications Association, the Telecommunications Association, the Western Conference of Public Service Commissioners, at the New England, Mid-America, Southern and Western regional PUC/PSC conferences, as well as at numerous conferences and workshops sponsored by individual regulatory agencies. Dr. Selwyn is an elected Town Meeting Member for the Town of Brookline, Massachusetts, and serves on the Town's Advisory and Finance Committee and its Subcommittee on Planning and Regulation.

## **Papers and Publications**

“Taxes, Corporate Financial Policy and Return to Investors,” *National Tax Journal*, Vol. XX, No.4, December 1967.

“Considerations for Computer Utility Pricing Policies” (with Daniel S. Diamond), presented at the 23<sup>rd</sup> Association for Computing Machinery National Conference, 1968.

“Real Time Computer Communications and the Public Interest “ (with Michael M. Gold), presented at the 1968 American Federation of Information Processing Societies, Fall Joint Computer Conference, San Francisco, CA, December 9-11, 1968.

“Computer Resource Accounting in a Time Sharing Environment,” presented at the 1970 American Federation of Information Processing Societies, Spring Joint Computer Conference, Atlantic City, NJ, May 5-7, 1970.

*Planning Community Information Utilities*, H. Sackman and B. W. Boehm, Eds., Chapter 6, "Industrial and Vocational Services," Montvale, NJ, AFIPS Press, 1972, at 137-172.

"Competition and Structure in the Computer Services Industry," *Proceedings, Second Annual Symposium on Economic Considerations in Managing the Computer Installation*, New York: Association for Computing Machinery, 1972.

"Computer Resource Accounting and Pricing," *Proceedings, Second Annual Symposium on Economic Considerations in Managing the Computer Installation*, New York: Association for Computing Machinery, 1972.

“Pricing Telephone Terminal Equipment Under Competition,” *Public Utilities Fortnightly*, December 8, 1977.

“Deregulation, Competition, and Regulatory Responsibility in the Telecommunications Industry,” *Presented at the 1979 Rate Symposium on Problems of Regulated Industries - Sponsored by: The American University, Foster Associates, Inc., Missouri Public Service Commission, University of Missouri-Columbia*, Kansas City, MO, February 11 - 14, 1979.

“Sifting Out the Economic Costs of Terminal Equipment Services,” *Telephone Engineer and Management*, October 15, 1979.

“Usage-Sensitive Pricing” (with G. F. Borton), (a three part series), *Telephony*, January 7, 28, February 11, 1980.

“Perspectives on Usage-Sensitive Pricing,” *Public Utilities Fortnightly*, May 7, 1981.

“Diversification, Deregulation, and Increased Uncertainty in the Public Utility Industries”  
*Comments Presented at the Thirteenth Annual Conference of the Institute of Public Utilities,*  
Williamsburg, VA - December 14-16, 1981.

“Local Telephone Pricing: Is There a Better Way?; The Costs of LMS Exceed its Benefits: a  
Report on Recent U.S. Experience,” *Proceedings of a conference held at Montreal, Quebec -*  
*Sponsored by Canadian Radio-Television and Telecommunications Commission and The Centre*  
*for the Study of Regulated Industries, McGill University, May 2-4, 1984.*

“Long-Run Regulation of AT&T: A Key Element of A Competitive Telecommunications  
Policy,” *Telematics*, August 1984.

“Is Equal Access an Adequate Justification for Removing Restrictions on BOC Diversification?”  
*Presented at the Institute of Public Utilities Eighteenth Annual Conference, Williamsburg, VA -*  
December 8-10, 1986.

“Market Power and Competition Under an Equal Access Environment,” *Presented at the*  
*Sixteenth Annual Conference, “Impact of Deregulation and Market Forces on Public Utilities:*  
*The Future Role of Regulation,” Institute of Public Utilities, Michigan State University,*  
Williamsburg, VA - December 3-5, 1987.

“Contestable Markets: Theory vs. Fact,” *Presented at the Conference on Current Issues in*  
*Telephone Regulations: Dominance and Cost Allocation in Interexchange Markets - Center for*  
*Legal and Regulatory Studies Department of Management Science and Information Systems -*  
*Graduate School of Business, University of Texas at Austin, October 5, 1987.*

“The Sources and Exercise of Market Power in the Market for Interexchange Telecommunicat-  
ions Services,” *Presented at the Nineteenth Annual Conference, “Alternatives to Traditional*  
*Regulation: Options for Reform,” Institute of Public Utilities, Michigan State University,*  
Williamsburg, VA, December, 1987.

“Assessing Market Power and Competition in The Telecommunications Industry: Toward an  
Empirical Foundation for Regulatory Reform,” *Federal Communications Law Journal*, Vol. 40  
Num. 2, April 1988.

“A Perspective on Price Caps as a Substitute for Traditional Revenue Requirements Regulation,”  
*Presented at the Twentieth Annual Conference, “New Regulatory Concepts, Issues and*  
*Controversies,” Institute of Public Utilities, Michigan State University, Williamsburg, VA,*  
December, 1988.

“The Sustainability of Competition in Light of New Technologies” (with D. N. Townsend and P.  
D. Kravtin), *Presented at the Twentieth Annual Conference, Institute of Public Utilities,*  
*Michigan State University, Williamsburg, VA, December, 1988.*

“Adapting Telecom Regulation to Industry Change: Promoting Development Without Compromising Ratepayer Protection” (with S. C. Lundquist), *IEEE Communications Magazine*, January, 1989.

“The Role of Cost Based Pricing of Telecommunications Services in the Age of Technology and Competition,” *Presented at National Regulatory Research Institute Conference*, Seattle, July 20, 1990.

“A Public Good/Private Good Framework for Identifying POTS Objectives for the Public Switched Network” (with Patricia D. Kravtin and Paul S. Keller), Columbus, Ohio: *National Regulatory Research Institute*, September 1991.

“Telecommunications Regulation and Infrastructure Development: Alternative Models for the Public/Private Partnership,” *Prepared for the Economic Symposium of the International Telecommunications Union Europe Telecom '92 Conference, Budapest, Hungary*, October 15, 1992.

“Efficient Infrastructure Development and the Local Telephone Company's Role in Competitive Industry Environment” Presented at the *Twenty-Fourth Annual Conference, Institute of Public Utilities, Graduate School of Business, Michigan State University*, “*Shifting Boundaries between Regulation and Competition in Telecommunications and Energy*,” Williamsburg, VA, December 1992.

“Measurement of Telecommunications Productivity: Methods, Applications and Limitations” (with Françoise M. Clottes), *Presented at Organisation for Economic Cooperation and Development, Working Party on Telecommunication and Information Services Policies, '93 Conference “Defining Performance Indicators for Competitive Telecommunications Markets,” Paris, France*, February 8-9, 1993.

“Telecommunications Investment and Economic Development: Achieving efficiency and balance among competing public policy and stakeholder interests,” *Presented at the 105th Annual Convention and Regulatory Symposium, National Association of Regulatory Utility Commissioners, New York*, November 18, 1993.

“The Potential for Competition in the Market for Local Telephone Services” (with David N. Townsend and Paul S. Keller), *Presented at the Organization for Economic Cooperation and Development Workshop on Telecommunication Infrastructure Competition*, December 6-7, 1993.

“Market Failure in Open Telecommunications Networks: Defining the new natural monopoly,” *Utilities Policy*, Vol. 4, No. 1, January 1994.

*The Enduring Local Bottleneck: Monopoly Power and the Local Exchange Carriers*, (with Susan M. Gately, et al) a report prepared by Economics and Technology, Inc. and Hatfield Associates, Inc. for AT&T, MCI and CompTel, February 1994.

*Commercially Feasible Resale of Local Telecommunications Services: An Essential Step in the Transition to Effective Local Competition*, (Susan M. Gately, et al) a report prepared by Economics and Technology, Inc. for AT&T, July 1995.

“Efficient Public Investment in Telecommunications Infrastructure,” *Land Economics*, Vol 71, No.3, August 1995.

*Funding Universal Service: Maximizing Penetration and Efficiency in a Competitive Local Service Environment* (with Susan M. Baldwin, under the direction of Donald Shephard), A Time Warner Communications Policy White Paper, September 1995.

*Stranded Investment and the New Regulatory Bargain* (with Susan M. Baldwin, under the direction of Donald Shephard), A Time Warner Communications Policy White Paper, September 1995

“Market Failure in Open Telecommunications Networks: Defining the new natural monopoly,” in *Networks, Infrastructure, and the New Task for Regulation*, by Werner Sichel and Donal L. Alexander, eds., University of Michigan Press, 1996.

*Establishing Effective Local Exchange Competition: A Recommended Approach Based Upon an Analysis of the United States Experience*, paper prepared for the Canadian Cable Television Association and filed as evidence in Telecom Public Notice CRTC 95-96, Local Interconnection and Network Component, January 26, 1996.

*Adapting Taxation Policies to a Changing Telecommunications Industry*, presented at the Public Utilities Seminar, International Association of Assessing Officers, Louisville, KY, March 22, 1996.

*The Cost of Universal Service, A Critical Assessment of the Benchmark Cost Model*, (with Susan M. Baldwin), a report prepared by Economics and Technology, Inc. on behalf of the National Cable Television Association and submitted with Comments in FCC Docket No. CC-96-45, April 1996.

*Economic Considerations in the Evaluation of Alternative Digital Television Proposals*, paper prepared for the Computer Industry Coalition on Advanced Television Service, filed with comments in FCC MM Docket No. 87-268, In the Matter of Advanced Television Systems and Their Impact Upon the Existing Television Broadcast Service, July 11, 1996.

*Assessing Incumbent LEC Claims to Special Revenue Recovery Mechanisms: Revenue opportunities, market assessments, and further empirical analysis of the "Gap" between embedded and forward-looking costs*, (with Patricia D. Kravtin), filed in *Access Charge Reform*, CC Docket No. 96-262, January 29, 1997.

*The Use of Forward-Looking Economic Cost Proxy Models* (with Susan M. Baldwin), Economics and Technology, Inc., February 1997.

*The Effect of Internet Use On The Nation's Telephone Network* (with Joseph W. Laszlo), report prepared for the Internet Access Coalition, July 22, 1997.

*Regulatory Treatment of ILEC Operations Support Systems Costs*, Economics and Technology, Inc., September 1997.

*The "Connecticut Experience" with Telecommunications Competition: A Case Study in Getting it Wrong* (with Helen E. Golding and Susan M. Gately), Economics and Technology, Inc., February 1998.

*Where Have All The Numbers Gone? Long-term Area Code Relief Policies and the Need for Short-term Reform*, prepared by Economics and Technology, Inc. for the Ad Hoc Telecommunications Users Committee, International Communications Association, March 1998, second edition, June 2000.

*Broken Promises: A Review of Bell Atlantic-Pennsylvania's Performance Under Chapter 30* (with Sonia N. Jorge and Patricia D. Kravtin), Economics and Technology, Inc., June 1998.

*Building A Broadband America: The Competitive Keys to the Future of the Internet* (with Patricia D. Kravtin and Scott A. Coleman), report prepared for the Competitive Broadband Coalition, May 1999.

*Bringing Broadband to Rural America: Investment and Innovation In the Wake of the Telecom Act* (with Scott C. Lundquist and Scott A. Coleman), report prepared for the Competitive Broadband Coalition, September 1999.

*Bringing Local Telephone Competition to Massachusetts* (with Helen E. Golding), prepared for The Massachusetts Coalition for Competitive Phone Service, January 2000.

*Subsidizing the Bell Monopolies: How Government Welfare Programs are Undermining Telecommunications Competition*, Economics and Technology, Inc., April 2002.

*Competition in Access Markets: Reality or Illusion, A Proposal for Regulating Uncertain Markets* (with Susan M. Gately and Helen E. Golding), Economics and Technology, Inc., prepared for the Ad Hoc Telecommunications Users Committee, August 2004.

“When the Competition Died – and What We Can Learn From the Autopsy,” presented at the 37th Annual Regulatory Policy Conference, Institute of Public Utilities, Michigan State University, Richmond, Virginia, December 5, 2005.

*Avoiding the Missteps made South of the Border: Learning from the US Experience in Competitive Telecom Policy* (with Helen E. Golding), Economics and Technology, Inc., prepared on behalf of MTS Allstream, Inc., August 16, 2006.

*Special Access Overpricing and the US Economy: How Unchecked RBOC Market Power is Costing US Jobs and Impairing US Competitiveness* (with Susan M. Gately, Helen E. Golding and Colin B. Weir), Economics and Technology, Inc., prepared for the Ad Hoc Telecommunications Users Committee, August 2007.

*Longstanding Regulatory Tools Confirm BOC Market Power: A Defense of ARMIS*, (with Susan M. Gately, Helen E. Golding and Colin B. Weir), prepared for the AdHoc Telecommunications Users Committee, January 2010.

*Revisiting US Broadband Policy: How Reregulation of Wholesale Services Will Encourage Investment and Stimulate Competition and Innovation in Enterprise Broadband Markets* (with Helen E. Golding, Susan M. Gately and Colin B. Weir), prepared for MTS Allstream Inc., February 2010.

*Regulation, Investment and Jobs: How Regulation of Wholesale Markets Can Stimulate Private Sector Broadband Investment and Create Jobs*, (with Susan M. Gately, Helen E. Golding and Colin B. Weir), prepared for Cbeyond, Inc., Covad Communications Company, Integra Telecom, Inc., PAETEC Holding Corp, and tw telecom inc., February 2010.