

MILTON L. MUELLER

ACADEMIC CV

CURRENT POSITION

Professor, School of Information Studies, Syracuse University.

- Director, Graduate Program in Telecommunications and Network Management.
- Co-Director and Founder, the Convergence Center
- Senior Associate, Global Affairs Institute, Maxwell School of Citizenship.

EDUCATION

1989: Ph.D., Communication, University of Pennsylvania, Annenberg School of Communications.

1986: M.A. Communication, University of Pennsylvania, Annenberg School of Communications.

1976: B.A. Animation and Filmmaking, Columbia College, Chicago.

PUBLICATIONS

Books and Monographs

Milton Mueller, **Ruling the Root: Internet Governance and the Taming of Cyberspace**. (MIT Press, 2002)

Milton Mueller, **Universal Service: Interconnection, Competition, and Monopoly in the Making of American Telecommunications**. (MIT Press/AEI Series on Telecommunications Deregulation, 1997).

Milton Mueller, **Telecom Policy and Digital Convergence**. (Hong Kong: City University Press, the Hong Kong Economic Policy Studies Series, 1997).

Milton Mueller and Zixiang Tan, **China in the Information Age: Telecommunications and the Dilemmas of Reform**. (Washington, DC: Center for Strategic and International Studies, 1996).

Milton Mueller, **Telephone Companies in Paradise: A Case Study in Telecommunications Deregulation**. New Brunswick, NJ: Transaction Publishers, 1993.

Milton Mueller, **International Telecommunications in Hong Kong: The case for liberalization** (2nd edition). Hong Kong: The Chinese University Press, 1992.

Refereed Journal Articles.

Milton Mueller, Christiane Page, Brenden Kuerbis, "Civil Society and the Shaping of Communication-Information Policy: Four Decades of Advocacy." **The Information Society** 20, 1-17 (2004)

Milton Mueller, "Competing DNS Roots: Creative Destruction or Just Plain Destruction?" **Journal of Network Industries**, 3(3) (Summer 2002).

Milton Mueller, "Rough justice: A Statistical assessment of ICANN's Uniform Dispute Resolution Policy." **The Information Society**, 17(3), (2001) 153-163.

Milton Mueller and Peter Lovelock, "The WTO and China's Ban on Foreign Investment in Telecommunication Services: A Game-theoretic Analysis." **Telecommunications Policy** 24, 8/9 (September-October, 2000), 731-760.

Milton Mueller, "Technology and Institutional Innovation: Internet Domain Names." **International Journal of Communications Law and Policy**, Issue 5, Article 1 (2000).

Milton Mueller, "ICANN and Internet Governance: Sorting through the debris of self-regulation." **Info** 1, 6, 477-500, (December 1999).

Milton Mueller, "Digital Convergence and its Consequences," **Javnost/The Public** 6, 3, 11-28 (1999).

Milton Mueller, "Universal Service Policies as Wealth Redistribution," **Government Information Quarterly**, 16, 4, 353-358 (1999).

Milton Mueller, "The Battle over Internet Domain Names: Global or National TLDs?" **Telecommunications Policy** 22, 2 (March 1998).

Milton Mueller, "Telecommunications Access in the Age of Electronic Commerce: Toward a Third-Generation Universal Service Policy," **Federal Communications Law Journal** 49, 3 (April 1997).

Milton Mueller, "Universal Service and the Telecommunications Act of 1996: Myth Made Law." **Communications of the ACM** 40, 3 (March 1997) 39-47.

Milton Mueller and Jorge R. Schement. "Universal Service from the Bottom Up: A profile of telecommunications access in Camden, New Jersey." **The Information Society** 12, 3 (1996) 273-291.

Milton Mueller, "New Definitions and Measures of Telecommunications Access," **Social Science Computer Review**, 14, 1 (Spring 1996), 60-61.

Milton Mueller, "Why Communications Policy is Passing Mass Communications By: Political Economy as the Missing Link." **Critical Studies in Mass Communication** 13, 3 (December 1995), 457-72.

Milton Mueller, "One Country, Two Systems: What will 1997 mean in telecommunications?" **Telecommunications Policy** 18, 3 (April 1994) 243-53.

Milton Mueller, "Universal Service in Telephone History: a reconstruction." **Telecommunications Policy** 17, 5 (July 1993) 352-69.

Milton Mueller, "New Zealand's Revolution in Spectrum Management," **Information Economics and Policy** 5, 2 (July 1993) 159-77.

Milton Mueller, "The Switchboard Problem: Scale, signaling and organization in the era of manual telephone switching, 1878-1898." **Technology and Culture** 30, 3 (July, 1989) 534-60.

Milton Mueller, "Technical Standards, the Market, and Radio Frequency Allocation," **Telecommunications Policy** 12, 1 (March 1988) 42-56.

Edited Collections

Guest Editor with Becky Lentz: Special issue on "Social Determinants of Public Policy in the Information Age," **The Information Society** (Summer, 2004)

Guest Editor: Special issue on "Emerging Internet Infrastructures," **Communications of the ACM**, (June 1999).

Guest Editor: Special issue on "Telecommunications and the Integration of China," **Telecommunications Policy** 18, 3 (April 1994).

Book Chapters

Milton Mueller, "Toward an Economics of the Domain Name System." **Handbook of Telecommunications Economics, Volume 2**, Technology Evolution and the Internet, Martin E. Cave, Sumit K. Majumdar and Ingo Vogelsang (eds.), Amsterdam, etc.: North-Holland/Elsevier. (forthcoming, 2004)

Milton Mueller and Jisuk Woo, "Spectators or Players: Internet Governance and the Rest of the World." Chapter in William J. Drake & Ernest J. Wilson III, Editors, **Governing Global Electronic Networks: International Perspectives on Power and Policy**. Cambridge: MIT Press, (2004)

Milton Mueller and Dale Thompson. "ICANN and Intelsat: Global Communication Technologies and their Incorporation into International Regimes." Chapter in Sandra Braman (ed.), **The Emergent Global Information Policy Regime**. Palgrave/Macmillan, 2003. In press.

Milton Mueller, "Property Rights and Institutional Innovation: Internet Domain Names," in Gary Libecap (Ed.), *Advances in the Study of Entrepreneurship, Innovation, and Economic Growth, Vol 12*, **Entrepreneurship and Growth in the American Economy**. Amsterdam: Elsevier (2000).

Milton Mueller, "Trademarks and Domain Names: Property rights and institutional evolution in cyberspace." Sharon E. Gillett and Ingo Vogelsang (Eds.), **Competition, Deregulation, and Convergence**:

Proceedings of the 26th Annual Telecommunications Policy Research Conference, Mahwah, New Jersey: LEA Publishers (1999).

David Gabel and Milton Mueller, "Household Financing of the First 100 Feet?" in D. Hurley and J. Keller (Eds.) **The First 100 Feet: Options for Internet and Broadband Access**, Cambridge, MA: MIT Press (1999) 11-23.

Milton Mueller, "China's Telecommunications Sector and the WTO," in James Dorn (Ed.), **China in the New Millenium: Market Reforms and Social Development**. Washington, DC: Cato Institute (1998).

Milton Mueller, "The Hong Kong Internet Exchange: A Case Study in the Economics, Evolution, and Connectivity of Asian Internet Infrastructure," in Brian Kahin and James H. Keller, (eds.) **Coordinating the Internet** (Cambridge, MA: MIT Press, 1997).

Milton Mueller, "The User-Driven Network: the present extent of private networking in the United States." in E. Noam et al (eds.) **Private Networks and Public Objectives** (Amsterdam: Elsevier, 1996).

Milton Mueller, "On the Frontier of Deregulation: New Zealand Telecommunications and the Problem of Interconnecting Competing Networks." in Gabel, D. and Weiman, D., (eds.) **Opening Networks to Competition: the Regulation and Pricing of Access**. (Kluwer: 1996).

Milton Mueller, "Creating a Telecommunications Free Trade Zone in Greater China." in Lee, P., (ed.) **Telecommunications and Development in China** (New Jersey: Hampton Press, 1996).

Milton Mueller, "Universal Service as an Appropriability Problem: a new framework for analysis." in Brock, G. (ed.) **Toward a Competitive Telecommunications Industry: Selected Papers from the 1994 Telecommunications Policy Research Conference**. (Washington, DC: Lawrence Erlbaum & Associates, 1995).

Milton Mueller "Contested Terrain: Hong Kong's International Telecommunications on the Eve of 1997." in Comor, E.A. (ed.), **The Global Political Economy of Communication** (New York: St. Martin's Press, 1994).

Nonrefereed Journal Articles.

Milton Mueller, "Competition in the Domain Name Market," **Business Communications Review** 29, 8 (August 1999).

Milton Mueller, "ICANN and Internet Regulation," (Commentary) **Communications of the ACM** 42, 6, June 1999.

Milton Mueller, "The Revolution in Property Relations in U.S. Telecommunications," **Media Studies Journal** 3, 1 (Winter, 1989) 58-73.

Book Reviews

Review of **Intellectual Property in the Information Age**, by Susan Halpern, for *Administrative Science Quarterly* (2001).

Review of **Media Technology and Society: A History from the Telegraph to the Internet**, by Brian Winston. For *Isis* 90, 4 (December 1999), 793-794.

Review of **Code and Other Laws of Cyberspace**, by Lawrence Lessig for *Info* 2, 5 (October 2000), 454-455.

Milton Mueller, "Telecommunications as Infrastructure: A Skeptical View." Review Essay, *Journal of Communication* 43, 2 (Spring 1993), 147-59.

Review of **Information Policy: A framework for evaluation and policy research**, by R. H. Burger (Ablex, 1993) for *Information Processing and Management* (Spring 1995).

Review of **The Bell System and Regional Business: the Telephone in the South, 1877-1920**, by Kenneth Lipartito, for *Technology and Culture* (July 1991).

Review of **The Process of Technological Change**, by Jon Clark, et al, for *Business History Review* 63, 4 (Winter 1989).

"Technology out of Control," review essay of Langdon Winner's **The Whale and the Reactor**, Goldberg and Strain's **Technological Change and the Transformation of America** and Colton and Bruchey's **Technology, the Economy, and Society**. *Critical Review* 1, 4 (Fall 1987).

PREVIOUS POSITIONS

1/98 - 9/03: Associate Professor. Syracuse University School of Information Studies.

8/92-7/97: Assistant Professor. Department of Communication, School of Communication, Information, and Library Studies, Rutgers University, New Brunswick, New Jersey. Promoted to Associate Professor, July 1997.

1/97 - 7/97 Visiting Professor. Hong Kong University of Science and Technology, Department of Information and Systems Management. Also 7/95 - 12/95.

8/91 - 8/92: Assistant Director. International Center for Telecommunications Management. College of Business Administration, University of Nebraska at Omaha. Research Associate, 8/89 - 8/91.

PRESENTATIONS, LECTURES, CONFERENCES

ENUM and Broadband Cable Networks. PTC 2003, Pacific Telecommunication Council, Honolulu, HI, Jan. 2003. (competitive paper submission).

Spectators or Players: Participation in ICANN by the "Rest of the World." Conference on Governing Global Electronic Networks. Social Sciences Research Council and Center for International Development and

Conflict Resolution. Held at the Central European University, Budapest, Hungary, November 14 - 18, 2002. (invited)

Interest Groups and the Public Interest: Transnational Civil Society and the Globalization of Communications Policy. TPRC 30th Research Conference on Information, Communication and Internet Policy, Alexandria, VA, September 28-30, 2002. (competitive paper submission).

Research on ICANN's Uniform Dispute Resolution Policy. Trademarks in Cyberspace, International Trademark Association, New York, NY September 25-26, 2002. (invited)

Global rights to names: Control of the DNS root and the expansion of intellectual property rights. Annual convention of the International Communication Association, Seoul, Korea, July 15, 2002. (competitive paper submission)

ICANN and Domain Names: From Common Pool Resource to Property Rights in the International Arena. 43rd annual International Studies Association Convention, New Orleans, March 24, 2002. (invited panel participant)

Dancing the Quango: ICANN and the Privatization of International Governance. Conference on New technologies and International Governance, School of Advanced International Studies, Johns Hopkins University, Washington DC, February 11-12, 2002. (invited)

Governments and Country Names: ICANN's Transformation into an Intergovernmental Regime. PTC 2002, Pacific Telecommunication Council, Honolulu, HI, Jan. 2002. (competitive paper submission)

Convergence: a reality check. Conference on audiovisual services, telecommunications and the WTO, World Trade Organization, Geneva, CH, November 2001. (invited)

Competing DNS roots: creative destruction or just plain destruction? TPRC 29th Research Conference on Information, Communication and Internet Policy, Alexandria, VA, Alexandria, VA, October 2001. (competitive paper submission)

Wealth redistribution and the diffusion of new technologies. Seminar on the digital divide, Columbia Institute for Tele-Information, Columbia University, New York, June 2001. (invited)

Organization and the Internet: Who is Making the Rules Online? New Economy Breakfast for Congressional staff, Washington, DC. Sponsored by Mercatus Center, George Mason University, February 16, 2001. (invited)

International Governance conference. Max Planck Institut Project Group on Law, Politics and Governance, Bonn Germany, February 2001. (invited)

Intellectual Property and Privacy in ICANN Policy, Pressing Issues II: Understanding and Critiquing ICANN's Policy Agenda, Marina Del Rey, California, November 12, 2000. (invited-b)

A Statistical Assessment of ICANN's Uniform Dispute Resolution Policy, New York State Bar Association, Intellectual Property Law Section, Fall Meeting, October 12, 2000, Bolton Landing, New York. (invited)

Rough Justice: A statistical assessment of ICANN's Uniform Dispute Resolution Policy, 28th annual Telecommunications Policy Research conference, Alexandria, Virginia, September 28, 2000. (competitive paper submission)

ICANN and the Representation of Civil Society in Internet Governance, Transatlantic Information Exchange Service (TIES), "Is the Internet Civil society's Best Friend?" Paris, April 4-5, 2000. (invited)

ICANN and Internet Governance, MIT Technology and Culture Forum, Cambridge, Massachusetts, August 4, 2000. (invited)

ICANN and Intelsat: Global Communication Technologies and their Incorporation into International Regimes," 41st Annual Convention of the International Studies Association Los Angeles, California, March 15, 2000. (competitive paper submission)

Technology and Institutional Innovation: Internet Domain Names. 27th Annual Telecommunications Policy Research Conference, Alexandria, Virginia, September 27, 1999. (competitive paper submission).

Why ICANN Failed. Conference on "Governing the Commons," Computer Professionals for Social Responsibility, Washington DC, September 24, 1999. (invited-b)

Investigating Technology's Ability to Foment Institutional Change: Internet domain names. Second Berlin Internet Economics Workshop, Berlin, Germany, May 28-29, 1999 (competitive paper submission).

Creating Collaboration between Domain Name Registrars and Trademark Owners. ICM Conference on Corporate Domain Names, New York, NY October 13, 1998 (invited).

The 'Governance' Debacle: How the Ideal of Internetworking Got Buried by Politics. INET'98, (Annual Conference of the Internet Society) Geneva, Switzerland, 22 July 1998 (competitive paper submission).

Privatization in New Zealand Telecommunications. Center for Tele-Information, Columbia University, New York, 12 June 1998 (invited).

Spectrum Property Rights. Wireless Information Network Laboratory, Focus 98 on Unlicensed Spectrum, Long Branch, NJ, 22 June 1998 (invited).

Domain Names and Trademarks. Internet Executive Summit, Washington, DC, 4 February 1998. (invited)

The Political Economy of Internet Domain Naming. INET '97 (Annual Conference of the Internet Society) June 24-27, Kuala Lumpur, Malaysia. (competitive paper submission)

China's Telecommunication Sector and the WTO: Can China Conform to the Telecom Regulatory Principles? Conference on China as a Global Economic Power: Market Reforms in the New Millennium Cato Institute and Fudan University, Shanghai, China, June 16, 1997. (invited)

Universal Service: Who Needs it? Conference on Managing and Addressing Universal Service Obligations in a Competitive Telecoms Environment, 26-27 February, Hong Kong. (invited)

Implementing Universal Service: what have the FCC and Joint Board done with Section 254? Conference on Universal Service: Deregulation and Competition in Telecommunications, International Business Communications, Bethesda Maryland, USA, 9 December 1996. (invited)

Telecommunications Access in the Age of Electronic Commerce: Toward a Third-Generation Universal Service Policy. 24th Annual Telecommunications Policy Research Conference, Solomons, Maryland, USA, October 6, 1996. (competitive paper submission)

The Hong Kong Internet Exchange: A case study in the economics and institutional development of Asian internet infrastructure." Conference on Coordination and Administration of the Internet, Harvard University Information Infrastructure Project, Kennedy School of Government, Cambridge, Mass., USA, Sept 10, 1996.

Internet and Government Policy in Hong Kong--Pounding a square peg into a round hole? Center for Internet Exchange Technologies Forum, Chinese University of Hong Kong, August 28, 1996. (invited)

Towards a Political Economy of Communication and Information. International Communication Association, Chicago, Illinois, May 25, 1996. (competitive paper submission)

Interconnecting Cybernetworks. Conference on Telecommunications and Cybernetworks, Columbia Institute for Tele-Information, Columbia University Graduate School of Business, May 17, 1996. (invited)

Telecommunications and the NII. Panel organizer and presenter, INFORMS Spring 1996 meeting, Washington DC, May 7, 1996.

Controlling the Computer: China confronts the global Internet. Conference on Computers, Freedom and Privacy (CFP'96), Massachusetts Institute of Technology, Cambridge, March 30, 1996. (invited-b)

"Telecommunications Futures Forum" Co-organizer of conference sponsored by the Hong Kong University of Science and Technology, Department of Information and Systems Management, November 25, 1995.

"Telecommunications Reforms in a Socialist Market Economy: the Case of China." Seminar, Department of Journalism and Communication, the Chinese University of Hong Kong, October 26, 1995.

"A Structural Approach to Interconnection." Interconnection and InterOperation: A Blueprint for Public Policy, Workshop sponsored by

the International Telecommunications Society, Wellington, New Zealand, October 18-20, 1995. (invited)

"Developing a Social Science Research Agenda for the National Information Infrastructure," special conference convened by the Computer and Information Science Division of the (USA) National Science Foundation, Washington, DC, June 1-2, 1995. (invited)

"Telephone Penetration and the Inner City: A Geographic and Demographic Analysis." paper presented at the annual convention of the International Communications Association, Albuquerque, New Mexico (USA), May 25-28, 1995. (competitive paper submission)

Invited Panel Chair and paper presenter, "Universal Service," 22nd Annual Telecommunications Policy Research Conference, October 2, 1994, Solomons Maryland. (Invited) (competitive paper submission)

Keynote speaker, "Establishing Market Share in a Competitive Telecommunications Market," Conference on Hong Kong Telecommunications and Network Competition, September 28-30, Furama Hotel, Hong Kong.

"Bargaining with a monopoly: deregulated interconnection in New Zealand," Conference on Competition in Network Industries, Columbia Institute for Tele-Information, Columbia University, New York, November 5, 1993. (invited)

"The historical development of Universal Service," Benton Foundation, CITI Universal Service Symposium, Washington DC, October 15, 1993. (invited)

Discussant, panel on "International experiences in telecommunications reform," 21st Annual Telecommunications Policy Research Conference, Solomons, Maryland, October 3, 1993. (competitive paper submission)

"International Trade and International Information Flows: Exploring an Unexamined Relationship." Panel organizer and presenter, International Communications Association Annual convention, May 31, 1993.

"Trade and Telecommunications in Greater China." Pacific Telecommunications Conference, Honolulu, Hawaii, January 18, 1993. (competitive paper submission)

"The User-Defined Network: the Present Extent of Private Networking in the U.S." Presented at the Conference on Private Networks and Public Objectives, Columbia Institute for Tele-Information, Columbia University, New York, December 11, 1992. (competitive paper submission)

"Contested Terrain: International Telecommunications in Hong Kong on the Eve of 1997." 9th International Conference of the International Telecommunications Society, Cannes, France, June 17, 1992. (competitive paper submission)

"Telecommunications Deregulation at the State Level: an Empirical Evaluation." 19th Annual Telecommunications Policy Research Conference, Solomons, Maryland, September 28, 1991. (competitive paper submission)

"Telecommunications Liberalization in the Asia-Pacific Region." Panel co-organizer and presenter, 1991 International Communications Association Convention, Chicago, May 24, 1991. (competitive paper submission)

"Universal Service as a Product of Competitive Struggle." Panel co-organizer and presenter, 1991 International Communications Association Convention, Chicago, May 24, 1991. (competitive paper submission)

"New Zealand's Revolution in Spectrum Management." Rethinking the Invisible Resource, a conference sponsored by the Federal Communications Commission, the National Telecommunications and Information Administration, and the Northwestern University Washington Program in Communications Policy, April 30, 1991. (invited)

Discussant, "Cable Industry's Future in the U.S. Telecommunications Infrastructure." Center for Telecommunications and Information Studies, Columbia University, New York, January 25, 1991.

"Cable and Wireless PLC: A study in global system building." Pacific Telecommunications Council, Honolulu, Hawaii, January 16, 1991. (competitive paper submission)

"The Indigenization of Foreign Culture in Three Chinese Cultural Settings: a Critique of Media Imperialism Theory." 1990 International Communications Association (ICA) convention, Dublin Ireland, June 24. (competitive paper submission)

"Separate System Competition: the Case of Hong Kong." 8th International Conference of the International Telecommunications Society (ITS), Venice, Italy, March 18-21, 1990. (competitive paper submission)

"The Great Information Migration: Historical Perspectives on Shifts in Dominant Media." International Communications Association (ICA) Conference, San Francisco, May 1989. Co-organizer of panel on broadband telecommunications. (competitive paper submission)

"Natural Monopoly and Competition: Myth and Reality in American History." Paper on telephone history presented at session of joint conference of the Organization of American Historians and the National Council on Public History, St. Louis, April 6-9, 1989. (competitive paper submission)

"Open Interconnection and the Economics of Networks: An Analysis and Critique of Current Policy." 16th Annual Telecommunications Policy Research Conference, Airlie House, Virginia, Oct. 30 - Nov. 1, 1988. (competitive paper submission)

"From Competition to Universal Service: The Emergence of Telephone Monopoly in the U.S., 1907-1921." Annual Meeting of the Society for the

History of Technology, Wilmington, Delaware, October 21, 1988.
(competitive paper submission)

"Capitalism Reborn: the revolution in property relations in U.S. telecommunications." Conference on Technology, Communication and the Humanities, sponsored by the Institute for Advanced Studies in the Humanities, University of Edinburgh, August 19, 1988.

"Letting the BOCs out of the Box." Commenter on presentations by Henry Geller and Herbert Marks on local exchange telephone deregulation, Cato Institute Policy Forum, Washington D.C., July 23, 1987.