
JOHANNES M. BAUER

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I. CURRENT POSITIONS

2013-present Professor and Chairperson, Department of Media and Information, Michigan State University

II. PERSONAL INFORMATION

Work address: Department of Media and Information
404 Wilson Road, Room 409
College of Communication Arts and Sciences
Michigan State University
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Home address: 510 Kedzie Street, East Lansing, Michigan 48823, USA

Personal: Dual citizenship (American, Austrian)

III. EDUCATION

1989 Ph.D. in Economics, University of Economics and Business Administration, Vienna, Austria (summa cum laude)

1982 M.A. in Economics, University of Economics and Business Administration, Vienna and University of Vienna, Austria (summa cum laude)

1975 Engineer in Precision Mechanics, Federal Secondary College of Engineering, Mödling, Austria (summa cum laude)

IV. PROFESSIONAL EXPERIENCE

2015 Interim Chairperson, Department of Communicative Sciences and Disorders, Michigan State University (January through August)

2012 Visiting Professor, Institute of Media and Communications Research (IPMZ), University of Zurich, Switzerland

2010 Visiting Professor, Department of Political Science, University of Konstanz, Germany (June-July)

2005-2009 Co-Director, Quello Center for Telecommunication Management and Law, Michigan State University

2003-2009 Professor, Department of Telecommunication, Michigan State University

2003-2005 Executive Director, Quello Center for Telecommunication Management and Law

2001-2003 Associate Director, Quello Center for Telecommunications Management and Law

2002 Visiting Professor, University of International Business and Economics, Beijing, China (May)

1998-2003 Research Associate, Institute of Public Utilities, Michigan State University

1994-2003 Associate Professor, Department of Telecommunication, Michigan State University

2000-2001 Visiting Professor, Faculty of Technology, Policy and Management, Delft University of Technology, Delft, the Netherlands

1997-2000 Director of Graduate Studies, Department of Telecommunication, Michigan State University

1993-1998 Director, Institute of Public Utilities, Eli Broad Graduate School of Management, Michigan State University

1990-1994 Assistant Professor, Department of Telecommunication, Michigan State University

1985-1990 Lecturer in Economics, University of Economics and Business Administration, Vienna, Austria

1982-1984 Research Assistant, Department of Economic Theory, University of Economics and Business Administration, Vienna, Austria

1980-1981 Social worker, Austrian Red Cross, Schwechat, Austria

1978-1979 Freelance researcher, Institute for Social Design, Vienna, Austria

V. HONORARY POSITIONS AND HONORS

2012-present Fellow, Columbia Institute for Tele-Information, Columbia University, New York

2010-present International Editor, *International Telecommunications Policy Review*

2009-present Research Associate, Quello Center, Michigan State University

2009-present Member, International Scientific Advisory Board, LIRNEasia, Colombo, Sri Lanka

2004-present Member, Editorial Board, *Information Economics and Policy*

2003-present Senior Fellow, Institute of Public Utilities

2013 Distinguished Faculty Award, Michigan State University

2010-2016 Associate Editor, *Telecommunications Policy*

2010-2013 Chairman of the Board, Research Conference on Communications, Information and Internet Policy (TPRC)

2009-2017 Member of the Board, Research Conference on Communications, Information and Internet Policy (TPRC)

2009-2011 Member, Scientific Committee, European Communications Policy Research Conference (EuroCPR)

2007-2012 Member, Editorial Board, *Communications & Strategies*

2005-2016 Member of the Executive Board, International Telecommunications Society (ITS)

2005-2010 Book editor, *Journal of Media Economics*

2003-2010 Member, International Scientific Advisory Board, Next-Generation Infrastructures Program, Delft University of Technology, Delft, the Netherlands

2007-2008 CIC Academic Leadership Program Fellow

1998-2003 Member, International Scientific Advisory Board, Interfaculty Center Design and Management of Infrastructures, Delft University of Technology, Delft, the Netherlands

2001-2005 Member, Executive Committee, Transportation and Public Utilities Group, American Economic Association

2000-2001 Chairman, Transportation and Public Utilities Group, American Economic Association

1999-2000 Chairman Elect, Transportation and Public Utilities Group, American Economic Association

1995-1997 Member, Board of Directors, National Regulatory Research Institute, Ohio State University,

VI. PUBLICATIONS

A. Peer-reviewed journal articles

1. Bauer, Johannes M. (2017), The Internet and income inequality, *Telecommunications Policy*, available online 16 June 2017, <http://dx.doi.org/10.1016/j.telpol.2017.05.009>.
2. Bauer, Johannes M. & Knieps, Günter (2017), Complementary innovation and network neutrality, *Telecommunications Policy*, available online 6 December 2017, <https://doi-org.proxy1.cl.msu.edu/10.1016/j.telpol.2017.11.006>
3. Asghari, Hadi, van Eeten, Michel, & Bauer, Johannes M. (2015), Economics of fighting botnets: Lessons from a decade of mitigation, *IEEE Privacy & Security*, September/October: 16-23.
4. Bauer, Johannes M. (2015), Governing the mobile broadband ecosystem, *International Telecommunications Policy Review*, 22(2): 1-27.
5. Bauer, Johannes M. (2014), Platforms, systems competition, and innovation: reassessing the foundations of communications policy, *Telecommunications Policy*, 38(8-9): 662-673.
6. Bauer, Johannes M., Madden, Gary, & Morey, Aaron (2014), Effects of economic conditions and policy interventions on OECD broadband adoption, *Applied Economics*, 46(12): 1361-1372.
7. Bauer, Johannes M. & Obar, Jonathan A. (2014), Reconciling political and economic goals in the net neutrality debate, *The Information Society*, 30(1): 1-19.
8. Larose, Robert, Bauer, Johannes M., DeMaagd, Kurt, Chew, Han Ei, Ma, Wenjuan, & Jung, Yumi (2014), Public broadband investment priorities in the United States: an analysis of the Broadband Technology Opportunities Program, *Government Information Quarterly*, 31(1): 53-64.
9. Larose, Robert, DeMaagd, Kurt, Chew, Han Ei, Tsai, H.-Y. Sandy, Steinfield, Charles, Wildman, Steven S., & Bauer, Johannes M. (2012), "Measuring sustainable broadband adoption: An innovative approach to understanding broadband adoption and use", *International Journal of Communication*, 6: 2576-2600, <http://ijoc.org/ojs/index.php/ijoc/article/view/1776/811>.
10. Bauer, Johannes M. & Van Eeten, Michel J.G. (2011), "Introduction to the economics of cybersecurity", *Communications & Strategies*, no. 81, 1st quarter 2011, p. 13-21.
11. Bauer, Johannes M. (2010), "Changing roles of the state in telecommunications," *International Telecommunications Policy Review*, 17: 127-145.
12. Bauer, Johannes M. (2010), "Learning from each other: conceptual and empirical foundations of cross-national benchmarking," *Info*, 12(6): 2-20.
13. Bauer, Johannes M. (2010) "Regulation, public policy, and investment in communications infrastructure," *Telecommunications Policy*, 34(1): 65-79.
14. DeMaagd, Kurt and Bauer, Johannes M. (2010), "Modeling the dynamic interactions of agents in the provision of network infrastructure," *Information Systems Frontiers*, 13(5): 669-680.
15. Ha, Imsook, Wildman, Steven S., and Bauer, Johannes M. (2010), "P2P, CDNs, and hybrid networks: the economics of Internet video distribution," *International Telecommunications Policy Review*, 17(4): 1-22.
16. Wu, Yuehua and Bauer, Johannes M. (2010), "E-government in China: development and driving forces of provincial portals," *Chinese Journal of Communications*, 3(3): 290-310.
17. Bauer, Johannes M. and Van Eeten, Michel J. G. (2009) "Cybersecurity: stakeholder incentives, externalities, and policy options," *Telecommunications Policy*, 33(10-11): 706-719.
18. Van Eeten, Michel J. G. and Bauer, Johannes M. (2009) „Emerging threats to internet security: incentives,

- externalities and policy implications,” *Journal of Crisis and Contingency Management*, 17(4): 592-608.
19. Bauer, Johannes M. and Bohlin, Erik (2008) “From static to dynamic regulation: recent developments in U.S. telecommunications policy,” *Intereconomics: Review of European Economic Policy*, 43(1): 38-50.
 20. Bauer, Johannes M., Ha, Imsook and Saugstrup, Dan (2007) “Mobile television: challenges of advanced service design”, *Communications of the Association for Information Security*, 20: 621-631.
 21. Bauer, Johannes M. (2007) “Dynamic effects of network neutrality,” *International Journal of Communication*, vol. 1, pp. 531-547, available at <http://ijoc.org/ojs/index.php/ijoc/article/view/156/79>.
 22. Bauer, Johannes M. and Wildman, Steven S. (2006) “Looking backwards and looking forwards in contemplating the next rewrite of the Communications Act,” *Federal Communications Law Journal*, 58(3): 415-438.
 23. Wildman, Steven S., Bauer, Johannes M. and Ting, Carol (2006) “Modeling the efficiency properties of spectrum governance regimes,” *Info*, 8(2), 82-96.
 24. Bauer, Johannes M. (2005) “Bundling, differentiation, alliances, and mergers: convergence strategies in U.S. communications markets,” *Communications & Strategies*, 60, 59-83.
 25. Bauer, Johannes M. (2005) “Regulation and state ownership: conflicts and complementarities in EU telecommunications,” *Annals of Public and Cooperative Economics* 76(2), 151-177.
 26. Bauer, Johannes M. (2005), “Unbundling policy in the United States: players, outcomes and effects,” *Communications & Strategies* 57, 59-82.
 27. Bauer, Johannes M., Kim, Junghyun, and Wildman, Steven S. (2005), “Towards an integrative framework for assessing broadband policy options,” *Michigan State Law Review*, Spring, Issue 1, pp. 21-50.
 28. Ting, Carol F., Wildman, Steven S. and Bauer, Johannes M. (2005), “A welfare comparison of spectrum property and spectrum commons governance regimes,” *Telecommunications Policy* 29(9-10): 711-720.
 29. Bauer, Johannes M. (2004), “Harnessing the swarm: communications policy in an era of ubiquitous networks and disruptive technologies,” *Communications & Strategies*, 54, 2nd quarter, 19-43.
 30. Bauer, Johannes M., Vesperini, Paola and Wildman, Steven S. (2003), “The state of telecommunications: realities, regulation, restructuring,” *Michigan State DCL Law Review*, Issue 3, 531-561.
 31. Bauer, Johannes M. (2003) “Impact of license fees on the prices of mobile service,” *Telecommunications Policy* 27, 417-434.
 32. Cherry, Barbara A. and Bauer, Johannes M. (2002) “Institutional arrangements and price rebalancing: evidence from the U.S. and the European Union,” *Information Economics and Policy* 14, 495-517.
 33. Bauer, Johannes M. and Wildman, Steven S. (2002), “Rethinking access: toward a conceptual framework,” *The Law Review of Michigan State University – Detroit College of Law* 4, 605-616.
 34. Maitland, Carleen F., Bauer, Johannes M., and Westerveld, Rudi (2002), “The European market for mobile data: evolving value chains and industry structure,” *Telecommunications Policy* 26(9-10), 485-504.
 35. Bauer, Johannes M., Berne, Michel, and Maitland, Carleen F. (2002) “Internet access in the European Union and in the United States,” *Telematics and Informatics* 19, 117-137.
 36. Bauer, Johannes M. (1999) “Universal service in Europe,” *Government Information Quarterly* 16, 329-343.
 37. Steinfield, Charles, Mahler, Alwin, and Bauer, Johannes M. (1999) “Strategies for physically-based retailers competing in a global virtual environment,” *Electronic Markets* 9, 51-57.
 38. Bauer, Johannes M. (1997) “Market power, technical change and efficiency in telecommunications: Schumpeter reconsidered,” *Journal of Economic Issues* 31, 557-565.
 39. Bauer, Johannes M. (1995) “The regulatory treatment of utility diversification,” *Land Economics* 33, 386-400.
 40. Bauer, Johannes M. (1994) “The emergence of global networks in telecommunications: transcending national regulation and market constraints,” *Journal of Economic Issues* 28, 109-124.
 41. Bauer, Johannes M. (1993) “Telecommunications in post-1992 Europe”, *International Review of Comparative*

Public Policy 5, 109-135.

42. Bauer, Johannes M. (1990) "Die Reorganisation der öffentlichen Wirtschaft in Österreich und ihre Effizienzwirkungen", *Der öffentliche Sektor* 16, 44-73 [Efficiency implications of the reorganization of the public enterprise sector in Austria].
43. Bauer, Johannes M. (1989) "Organisationsform und Effizienz in der Versorgungswirtschaft," *Der öffentliche Sektor* 15, 133-152 [Sector organization and the efficiency of public utilities].
44. Bauer, Johannes M. (1987) "Privatisierung und Effizienz," *Wirtschaftspolitische Blätter* 34, 584-593 [Privatization and efficiency].
45. Bauer, Johannes M., et.al. (1987) "A technology assessment of new telecommunications services," *Telecommunications Policy* 11, 334-346.
46. Bauer, Johannes M. (1986) "Grenzverschiebungen zwischen öffentlicher und privater Wirtschaft in Österreich 1970-1985," *Journal für Sozialforschung* 26, 283-318 [Shifting boundaries between the public and private sector in Austria 1970-1985].

B. Books, edited books, edited journals

47. Bauer, Johannes M. and Latzer, Michael (eds.) (2016), *Handbook on the Economics of the Internet*, Cheltenham, UK and Northampton, MA: Edward Elgar. Paperback edition published December 2017.
48. Bauer, Johannes M. & Bohlin, Erik (eds.) (2014), Selected papers from the 2013 Research Conference on Communications, Information and Internet Policy, *Telecommunications Policy*.
49. Bauer, Johannes M., Bohlin, Erik, & deVries, Pierre (eds.) (2013), Selected papers from the 2012 Research Conference on Communications, Information and Internet Policy, *Telecommunications Policy*.
50. Bauer, Johannes M., Lang, Achim, and Schneider, Volker (eds.) (2012), *Innovation Policies and Governance in High-technology Industries: The Complexity of Coordination*, Berlin: Springer.
51. Anania, Loretta, Bauer, Johannes M., Van Eeten, Michel (2011) (eds.), Special Issue on The economics of cybersecurity, *Communications & Strategies*, no. 81, 1st quarter 2011.
52. Weijnen, Margot P. C., Bauer, Johannes M., Chamoux, Jean-Pierre, Ehrenfeld, John, & Jones, Douglas N. (eds.) (2001) *Walking a thin line in infrastructures: balancing short term goals and long term nature*, Proceedings of the Third Annual Symposium of the Delft Interfaculty Research Center Design and Management of Infrastructures, Delft: Delft University Press.
53. Mody, Bella, Bauer, Johannes M., and Straubhaar, Joseph D. (eds.) (1995) *Telecommunication politics: ownership and control of the information highway in developing countries*. Mahwah, NJ: Lawrence Erlbaum Associates.
54. Steinfield, Charles, Bauer, Johannes M., and Caby, Laurence (eds.) (1994) *Telecommunications in transition: policies, services, and technologies in the European Community*. Thousand Oaks, CA: Sage Publications.
55. Bauer, Johannes M. and Latzer, Michael (eds.) (1993). *Nützliche Verbindungen: Neue Telekommunikationsdienste in Europa*, Vienna-Munich: R. Oldenbourg Publishers [Useful connections: new telecommunications services in Europe].
56. Bauer, Johannes M. and Marterbauer, Markus (eds.) (1991) *Ende des Protektionismus: Ökonomische Auswirkungen einer Liberalisierung des öffentlichen Beschaffungswesens*. Vienna, Austria: Verlag der Wirtschaftsuniversität [The end of protectionism: economic effects of a liberalization of public sector procurement].
57. Abele, Hanns and Bauer, Johannes M. (1984) *Die Bundestheater in der österreichischen Wirtschaft*. Vienna: Ueberreuter [The Federal Theaters in the Austrian economy].

C. Peer-reviewed book chapters and proceedings

58. Bauer, Johannes M. and Latzer, Michael (2016), "The economics of the Internet: An Overview", in: Bauer, Johannes M. and Latzer, Michael (eds.) (2016), *Handbook on the Economics of the Internet*, pp. 3-20, Cheltenham,

UK and Northampton, MA: Edward Elgar.

59. Knieps, Günter and Bauer, Johannes M. (2016), “The industrial organization of the Internet”, in: Bauer, Johannes M. and Latzer, Michael (eds.) (2016), *Handbook on the Economics of the Internet*, pp. 23-54, Cheltenham, UK and Northampton, MA: Edward Elgar.
60. Schneider, Volker and Bauer, Johannes M. (2016)), “A network science approach to the Internet”, in: Bauer, Johannes M. and Latzer, Michael (eds.) (2016), *Handbook on the Economics of the Internet*, pp. 72-90, Cheltenham, UK and Northampton, MA: Edward Elgar.
61. Asghari, Hadi, van Eeten Michel, and Bauer, Johannes M. (2016), “Economics of cybersecurity”, in Bauer, Johannes M. and Latzer, Michael (eds.) (2016), *Handbook on the Economics of the Internet*, pp. 262-287, Cheltenham, UK and Northampton, MA: Edward Elgar.
62. Bauer, Johannes M. and Koning, Kendall (2015), “Internet telephony”, in: R. Mansell and P.-H. Ang (eds.), *The International Encyclopedia of Digital Communication and Society*, pp. Wiley Blackwell-ICA Encyclopedias of Communication. Malden and Oxford: Wiley, DOI: 10.1002/9781118767771.wbiedcs155.
63. Van Eeten, Michel and Bauer, Johannes M. (2013), “Enhancing incentives for Internet security”, in: I. Brown (ed.), *Handbook of Internet governance*, pp. 445-484, Cheltenham, UK: Edward Elgar.
64. Bauer, Johannes M. and Kim, Sungjoong (2013) “Approaches to overcoming data and analysis challenges in international comparisons of advanced communication services”, in: A. Schejter and R. D. Taylor (eds.), *Beyond broadband access*, pp. New York: Fordham University Press.
65. Bauer, Johannes M. (2012), “Entrepreneurship and government in U.S. high-tech policy,” in J. M. Bauer, A. Lang, and V. Schneider (eds.) *Innovation policies and governance in high-technology industries: the complexity of coordination*, pp. 103-125, Berlin: Springer.
66. Van Eeten Michel, Bauer, Johannes M. (2012), “Mega-crises and the Internet: risks, incentives, and externalities”, in: I. Helsloot, A. Boin, B. Jacobs, and L. K. Comfort (eds.), *Mega-crises: understanding the prospects, nature, characteristics and effects of cataclysmic events* (pp. 356-370), Springfield, IL: Charles C. Thomas Publishers.
67. Bauer, Johannes M., Lang, Achim, and Schneider, Volker (2012), “Innovation policy and high-tech development: an introduction,” in: J. M. Bauer, A. Lang, and V. Schneider (eds.) *Innovation policies and governance in high-technology industries: the complexity of coordination*, pp. 1-19, Berlin: Springer.
68. DeMaagd, Kurt and Bauer, Johannes M. (2012) “Network neutrality and sector performance: exploring policy options with simulation methods”, in: G. Faulhaber, G. Madden and J. Petchey (eds.) *Regulation and the performance of communication and information networks*, pp. 209-226, Cheltenham, UK and Northampton, MA: Edward Elgar.
69. Lang, Achim, Schneider, Volker, and Bauer, Johannes M. (2012), “Innovation policy and high-tech development: conclusions,” in J. M. Bauer, A. Lang, and V. Schneider (eds.) *Innovation policies and governance in high-technology industries: the complexity of coordination*, pp. 287-299, Berlin: Springer.
70. Bauer, Johannes M. and Van Eeten, Michel (2009) „Securing cyberspace: realigning incentives in the ICT value net”, *Proceedings of WebSci’09*, Athens, Greece.
71. Bauer, Johannes M., Ha, Imsook, and Saugstrup, Dan (2009) “Technical, business and policy challenges of mobile TV”, in: B. Preissl, P. Curwen, and J. Haucap (eds.), *Telecommunication markets: drivers and impediments*, pp. 419-434, Berlin: Springer.
72. Bauer, Johannes M. and Herder, Paulien M. (2009) “Designing socio-technical systems”, in: A. Meijers (ed.), *Handbook of the philosophy of technology and engineering sciences*, pp. 597-625, Amsterdam: Elsevier.
73. Schneider, Volker and Bauer, Johannes M. (2009) „Governance-Theorie und die Analyse komplexer Systeme,“ in: J. Weyer and I. Schulz-Schaeffer (eds.), *Management komplexer Systeme: Konzepte für die Bewältigung von Intransparenz, Unsicherheit und Chaos*, 31-53, München-Wien: Oldenbourg.
74. Bauer, Johannes M. and Schneider, Volker (2008) “Cooperation, competition and mutualism in the U.S. information and communication technology (ICT) sector,” in: J.R. Grote, A. Lang, and V. Schneider (eds.), *Organised business interests in changing environments*, pp. 130-152, Basingstoke, UK: Palgrave Macmillan.

75. Cherry, Barbara A. and Bauer, Johannes M. (2007) "Complex systems approach to policymaking for telecommunications," *Proceeding of the Multi-Conference on Systemics, Cybernetics and Informatics*, Orlando, FL.
76. Ha, Imsook and Bauer, Johannes M. (2007) "Competition between mobile TV and broadcasters," *Proceedings of the International Conference on Information Society (i-Society 2007)*, Merrillville, IN, October 7-11.
77. Bauer, Johannes M. (2006) "Broadband in the United States," in: M. Fransman (ed.), *Global Broadband Battles: Why the U.S. and Europe lag and Asia Leads*, pp. 133-163, Stanford, CA: Stanford University Press.
78. Lacy, Stephen and Bauer, Johannes M. (2005) "The future of media economics research," in: A. B. Albarran, M. O. Wirth and S. Chan-Olmsted (eds.), *Handbook of Media Economics*, pp. 653-672, Mahwah, NJ: Lawrence Erlbaum.
79. Bauer, Johannes M. (2004) "Harnessing the swarm: communications policy in an era of ubiquitous networks and disruptive technologies," *Proceedings of the European Communications Policy Research Conference*, Barcelona, Spain, March 28-30.
80. Bauer, Johannes M. (2004) „Privatisierung von Infrastrukturektoren aus wirtschaftswissenschaftlicher Sicht,“ in: V. Schneider & M. Tenbücken (eds.), *Der Staat auf dem Rückzug: Die Privatisierung öffentlicher Infrastrukturen*, pp. 53-84, Frankfurt am Main: Campus Verlag [Privatization of infrastructure sectors: an economic perspective].
81. Bauer, Johannes M. (2004) "Spectrum management and the evolution of the mobile services industry," in: R. Cooper & G. Madden (eds.) *Frontiers of broadband, electronic and mobile commerce*, pp. 245-265, Heidelberg: Physica Verlag.
82. Bauer, Johannes M., Häge, Frank and Schneider, Volker (2004) „Vetospiele oder Institutionen: Zum Politikwandel in der Telekommunikation,“ in: M. Tenbücken and V. Schneider (eds.), *Der Staat auf dem Rückzug: Die Privatisierung öffentlicher Infrastrukturen*, pp. 241-279, Frankfurt am Main: Campus Verlag [Vetoplayers or institutions: on policy change in telecommunications].
83. Heuvelhof, Ernst ten, Kuit, Martijn, Stout, Helen D., and Bauer, Johannes M. (2003), "Capacity management in infrastructure sectors: lessons from the Dutch experience," W.A.H. Thissen and P.M. Herder (eds.), *Critical Infrastructures - State of the Art in Research and Application*, pp. 265-279, Boston/Dordrecht/London: Kluwer.
84. Bauer, Johannes M., Weijnen, Margot P. C., Turk, Adam L. and Herder, Paulien M. (2003), "Delineating the scope of convergence in infrastructures: new frontiers for competition," in: W.A.H. Thissen and P.M. Herder (eds.), *Critical Infrastructures - State of the Art in Research and Application*, pp. 209-231, Boston/Dordrecht/London: Kluwer.
85. Bauer, Johannes M. (2001) "Fundamentos normativos de la política telecomunicaciones en la sociedad de la información Europea", in R. Máiz (ed.), *Construcción de Europa, democracia y globalización*, Santiago de Compostela: Servicio de Publicacións e Intercambio Científico, pp. 411-430.
86. Maitland, Carleen F. and Bauer, Johannes M. (2001) "National level culture and global diffusion: the case of the Internet," in C. Ess (ed.) *Culture, technology, communication: towards an intercultural global village*, pp.87-128, Albany, NY: SUNY Press.
87. Steinfield, Charles, Mahler, Alwin and Bauer, Johannes M. (2000) "Electronic commerce and the local merchant: opportunities for synergies between physical and web presence," in E. Bohlin, K. Brodin, A. Lundgren, and B. Thorngren (eds.) *Convergence in communications and beyond*, pp. 269-280, Amsterdam: Elsevier.
88. Bauer, Johannes M. (1996) "The role of national policy in an era of global networks," in: *Harnessing Telecommunications Convergence*, Proceedings of the 18th Annual Conference of the Pacific Telecommunications Council, Honolulu, Hawaii: PTC.
89. Bauer, Johannes M. (1995) "The anatomy and regulatory repercussions of telecommunications globalization", in G. W. Brock (ed.) *Towards competition in telecommunications policy*, pp. 179-202, Mahwah, NJ: Lawrence Erlbaum.
90. Bauer, Johannes M. (1994) "Globalization of telecommunications operators under conditions of asymmetric national regulation", in G. Pogorel (ed.) *Global telecommunications strategies and technical change*, pp. 287-303. Amsterdam: North-Holland.

D. Invited and contributed articles and book chapters

91. Bauer, Johannes M. (forthcoming), "The Net and the Internet in the United States," in: M. Girasole and A. Renda (eds.), *The Net and the Internet: Emerging Markets and Policies for the Connected Age*, Cheltenham, UK and Northampton, MA, Edward Elgar.
92. Bauer, Johannes M. & Bohlin, Erik (2014), Editorial: Papers from the 41st Research Conference on Communication, Information and Internet Policy (TPRC 2013), *Telecommunications Policy*, 38(8-9): 798-799.
93. Bauer, Johannes M. (2010), "Transformations of the state in telecommunications", in: R. Negrine, S. Papathanassopoulos (eds.), *Communication Policy: Theory and Issues*, pp. 148-165, Basingstoke, UK: Palgrave Macmillan.
94. Van Eeten, Michel and Bauer, Johannes M. (2009) "The economics of malware," in: OECD, *Computer Viruses and other Malicious Software: A Threat to the Internet Economy*, pp. 79-148, Paris: Organisation for Economic Co-operation and Development.
95. Bauer, Johannes M. (2007) "Internet governance: theory and first principles," in: Ravi Kumar Jain Bandamutha (ed.), *Internet Governance: An Introduction*, pp. 40-59, Hyderabad, India: The Icfai University.
96. Bauer, Johannes M. and Cherry, Barbara A. (2006) "Transatlantic conundrums: lessons for Europe?" in: P. Verhoest (ed.), *i2010: comments and contributions*, p. 3-32, Brussels: ENCIP.
97. Bauer, Johannes M. (2006) From static efficiency to innovation focus: the turnaround of U.S. unbundling policy, in: P. Baake and B. Preissl (eds.), *Local loop unbundling and bitstream access: regulatory practice in Europe and the US*, pp. 150-175, Berlin: DIW.
98. Bauer, Johannes M. (2005) "Regulated mixed firms: the case of European telecommunications," in R. Künneke, J. Groenewegen and A. Correlje (eds.), *Institutional reform, regulation and privatization*, pp. 153-175, Aldershot, Edward Elgar.
99. Bauer, Johannes M. and Berne, Michel (2004) "E-commerce and internet access in the European Union and the United States," in: B. Preissl, W.A.G.A. Bouwman, & C. Steinfield (eds), *E-life after the dot com bust*, pp. 223-248, Heidelberg: Physica Verlag.
100. Bauer, Johannes M. (2003) "The role of regulation in an era of partial competition", in E.F.M. Wubben and W. Hulsink (eds.), *On creating competition and strategic restructuring: regulatory reform in public utilities*, pp. 35-66, Cheltenham, UK: Edward Elgar.
101. Bauer, Johannes M., Kim, Junghyun, and Wildman, Steven S. (2003) "Broadband deployment: toward a more fully integrated policy perspective," in: A. L. Champine (ed.) *Down to the wire: studies in the diffusion and regulation of telecommunications technologies*, Hauppauge, NY: Nova Science Publishers.
102. Bauer, Johannes M. (2002) "Spectrum management: private property or commons?" in: R. E. Mansell, R. A. Samarajiva, and A. K. Mahan (eds.), *Networking knowledge for information societies: institutions and intervention*, pp. 118-126, Delft, The Netherlands: Delft University Press.
103. Bauer, Johannes M. (2002) "Normative foundations of electronic communications policy in the European Union," in: J. Jordana (ed.) *Governing telecommunications and the new information society in Europe*, pp. 110-133, Cheltenham, UK: Edward Elgar.
104. Bauer, Johannes M. (2002) "Public utilities in the perspective of the 'Gemeinwirtschaftslehre'," in: W. Samuels, W. G. Shepherd, and E. Miller (eds.) *An institutionalist approach to public utilities regulation*, pp 82-94, East Lansing: Michigan State University Press.
105. Bauer, Johannes M. (1995) "Alternatives to privatization", in: B. Mody, J. M. Bauer, J. D. Straubhaar (eds.) *Telecommunication politics: ownership and control of the information highway in developing countries*, pp. 261-285. Mahwah, NJ: Lawrence Erlbaum Associates.
106. With Joseph D. Straubhaar, Patricia McCormick, and Consuelo Campbell (1995) "Telecommunications restructuring: the experience of eight countries", in: B. Mody, J. M. Bauer, J. D. Straubhaar (eds.) *Telecommunication politics: ownership and control of the information highway in developing countries*, pp. 225-245. Mahwah, NJ: Lawrence Erlbaum Associates.

107. Bauer, Johannes M. (1994) "Conceptual frameworks for the design of telecommunications policy", in: C. Steinfield, J. M. Bauer and L. Caby (eds.) *Telecommunications in transition*, pp. 18-35. Thousand Oaks: Sage Publications.
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VII. PRESENTATIONS AT ACADEMIC CONFERENCES AND PROFESSIONAL MEETINGS

A. Academic conferences

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2. Bauer, Johannes M. (2016), “The Internet and inequality: socio-economic challenges of the hyperconnected society”, Biennial Conference of the International Telecommunications Society (ITS), Taipei, Taiwan, June 26-29, 2016.
3. García-Murillo, Martha, McInnes, Ian, Bauer, Johannes M., & Hong, Soo Jeong (2016), “Individual to individual services and the future of work”, Biennial Conference of the International Telecommunications Society (ITS), Taipei, Taiwan, June 26-29, 2016.
4. Bauer, Johannes M. & Tsai, Sandy Hsin-yi (2015), “A framework for designing mobile broadband policy”, Regional Conference of the International Telecommunications Society, Los Angeles, December 13-15, 2015.
5. Tsai, Sandy & Bauer, Johannes M., “Designing workable mobile broadband policies: theory and evidence”, Regional Conference of the International Telecommunications Society, Los Angeles, October 25-28, 2015.
6. Bauer, Johannes M. & Knieps, Günter, “Innovational complementarities and network neutrality”, 43rd Conference for Communication, Information and Internet Policy (TPRC43), Arlington, VA, September 24-27, 2015.
7. García-Murillo, Martha, McInnes, Ian, & Bauer, Johannes M., “Techno-unemployment”, 43rd Conference for Communication, Information and Internet Policy (TPRC43), Arlington, VA, September 24-27, 2015.
8. Bauer, Johannes M., “The Internet and inequality”, Society for the Advancement of Socio-Economics, London, July 2-4, 2015.
9. García-Murillo, Martha, McInnes, Ian, & Bauer, Johannes M., “Effects of ICTs on employment: A conceptual framework”, 26th European Regional ITS Conference, San Lorenzo de el Escorial, Spain, June 24-27, 2015
10. Tsai, Hsin-yi Sandi, & Bauer, Johannes M., “Drivers of fixed and mobile broadband infrastructure adoption and quality”, 20th Biennial Conference of the International Telecommunications Society, Rio de Janeiro, Brazil, November 30-December 3, 2014.

11. Tsai, Hsin-yi Sandi, & Bauer, Johannes M., "Effects of public policy on fixed and mobile broadband infrastructure quality, 42nd Research Conference on Communication, Information and Internet Policy (TPRC), Arlington, VA, September 12-14, 2014.
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13. Tsai, Hsin-yi Sandi, & Bauer, Johannes M., "Effects of public policy on the quality of broadband services: A comparative analysis of Internet download speeds," Conference of the International Communications Association (ICA), Seattle, WA, May 22-25, 2014.
14. Bauer, Johannes M., Schneider, Yves, & Zenhäusern, Patrick, "Impact of sector-specific regulation on ICT infrastructure quality," 24th European Regional Conference of the International Telecommunication Society (ITS), Florence, Italy, October 23-25, 2013.
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19. Bauer, Johannes, M., Internet-based innovation: dynamics of a socio-technical system, London School of Economics, LSE Network Economy Conference, May 13, 2013.
20. Bauer, Johannes M. "Designing regulation to support innovation: experiences and future challenges", Keynote address, Fifth Annual Conference on Competition and Regulation in Network Industries, Brussels, November 30, 2012.
21. Bauer, Johannes M. "Regulation, competition, and innovation", Keynote address, 19th Biennial Conference of the International Telecommunications Society, Bangkok, Thailand, November 18-21, 2012.
22. Bauer, Johannes M., Rupp, Matthew, Koning, Kendall, Goodman, Erik D., DeMaagd, Kurt, Chattopadhyay, Tithi, & Friederici, Nicolas, "Promoting innovation in advanced communications: an evolutionary approach", 19th Biennial Conference of the International Telecommunications Society, Bangkok, Thailand, November 18-21, 2012.
23. Bauer, Johannes M. and Shim, Woohyun, Effects of regulation on innovation in the information and communication sector," presented at the 40th Research Conference on Information, Communications, and Internet Policy, Arlington, VA, September 21-24, 2012.
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34. Bauer, Johannes M. and Chattopadhyay, Tithi, "How does regulation affect innovation in advanced communications? A new look at theory and evidence," paper presented at the 2011 Asia-Pacific Regional Conference International Telecommunications Society, 26-28 June 2011, Taipei, Taiwan.
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45. Bauer, Johannes M. “Harnessing advanced communications for economic development”, 1st Europe-Middle Eastern-African Conference of the International Telecommunications Society, Kingdom of Bahrain, October 27, 2009.
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 59. Bauer, Johannes M. and Schneider, Volker, “Lessons from complexity theory for the governance of large technical systems,“ International Conference on Complexity and Large Technical Systems, Meersburg, Germany, May 30-31, 2008.
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 61. Van Eeten, Michel J. G. and Bauer, Johannes M., „Cybersecurity as an emergent property of the Internet,“ International Conference on Complexity and Large Technical Systems, Meersburg, Germany, May 30-31, 2008.

62. Kwon, Youngsun, Bauer, Johannes M., and Steven S. Wildman, "A framework for determining the optimal mix of spectrum management regimes," 35th Research Conference on Communications, Information and Internet Policy, Alexandria, VA, September 28-30, 2007.
63. Bauer, Johannes M. and Bohlin, Erik, "Dynamic regulation: conceptual foundations, implementation, effects," 35th Research Conference on Communications, Information and Internet Policy,, Alexandria, VA, September 28-30, 2007.
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68. Schneider, Volker and Bauer, Johannes M., "Governance: from systems to complexity theory", International Workshop on Complex Systems, Meersburg, Germany, June 21, 2007.
69. Schneider, Volker and Bauer, Johannes M., "Governance: prospects of complexity theory in rethinking systems theory", 65th Annual Conference of the Midwest Political Science Association. Chicago, Illinois, 14 April 2007, 2007.
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71. Bauer, Johannes M. and Herder, Paulien M., "The design of complex socio-technical systems", Conference on the Philosophy of Technology and Engineering Systems, Technical University Eindhoven, Netherlands, January 18-20, 2007.
72. Bauer, Johannes M., "Dynamic effects of network neutrality," 34th Telecommunications Policy Research Conference, Alexandria, VA, September 29-October 1, 2006.
73. Bauer, Johannes M., "Effects of alternative network neutrality policies," 17th European ITS Conference, Amsterdam, August 22-24, 2006.
74. Bauer, Johannes M., Wu, Belinda, "Internet governance: shaping and controlling a multi-layer socio-technical system," Conference of the International Association of Mass Communication Research, Cairo, July 23-28, 2006.
75. Bauer, Johannes M., Deng, Qinxu, Ji, Sung Wook, and Lai, Chih-Hui, "Entrepreneurs, policy-makers, and idealists: wireless broadband in the United States," 15th Biennial Conference of the International Telecommunications Society, Beijing, June 12-16, 2006.
76. Bauer, Johannes M. and Zhang, Jun, „Multi-play as a convergence strategy: theory and evidence for North America," 15th Biennial Conference of the International Telecommunications Society, Beijing, June 12-16, 2006.
77. Barbara A. Cherry and Bauer, Johannes M., "Sustainable policies for the network economy," 15th Biennial Conference of the International Telecommunications Society, Beijing, June 12-16, 2006.
78. Bauer, Johannes M. and Cherry, Barbara A. "Transatlantic conundrums: lessons for Europe?" EuroCPR, Seville, March 26-28, 2006.
79. Bauer, Johannes M. and Steven S. Wildman, "Looking backwards and looking forward: lessons learned from the Telecommunications Act of 1996," CITI and George Washington University Conference on the 10th Anniversary of the Telecom Act 1996, Washington, DC, February 6, 2006.

80. Bauer, Johannes M., "Universal service and new technologies", Wireless Communications and Universal Service, Columbia University, New York, December 9, 2005.
81. Bauer, Johannes M., "Convergence strategies in U.S. communications markets," First Transatlantic Telecom Industry Forum, Montpellier, France, November 22, 2005.
82. Ting, Carol, Wildman, Steven, and Bauer, Johannes M., "Government policy and the comparative merits of alternative governance regimes for wireless services" IEEE Symposium on New Frontiers in Dynamic Spectrum Access Networks, Baltimore, MD, November 8-11, 2005.
83. Bauer, Johannes M., "Internet governance: a network perspective", presented at the 27th Annual Conference of the American Public Policy and Management Association (APPAM), Washington, D.C., November 3-5, 2005.
84. Bauer, Johannes M., "Internet governance: theory and first principles," presented at the 33rd Research Conference on Communication, Information and Internet Policy, Alexandria, VA, September 23-25, 2005.
85. Bauer, Johannes M., "Unbundling policy in the United States: players, outcomes and effects," presented at the 16th Regional European Conference of the International Telecommunications Society, Porto, Portugal, September 4-6, 2005.
86. Bauer, Johannes M., Kim, Sungjoong, Mody, Bella, and Wildman, Steven S., "The role of research in communications policy: theory and evidence," presented at the 55th Annual Conference of the International Communications Association, New York, May 26-30, 2005.
87. Bauer, Johannes M. and Schneider, Volker, "The organization of ICT business interests in the United States," presented at the 63rd Midwest Political Science Association Annual Conference, Chicago, Illinois, April 7-10, 2005.
88. Bauer, Johannes M., "From mechanical to adaptive regulation", European Communications Policy Research Conference, Potsdam, Germany, March 13-15, 2005.
89. Bauer, Johannes M., Kim, Junghyun, and Wildman, Steven S., "Regulation and the diffusion of broadband in the OECD," presented at the University of Florida-London Business School joint conference, Gainesville, FL, February 24-25, 2005.
90. Bauer, Johannes M., Lin, Yu-Chieh, Maitland, Carleen F., and Tarnaka, Ankur, "Transition paths to next-generation wireless services," presented at the 32nd Research Conference on Communication, Information and Internet Policy, Alexandria, VA, October 1-3, 2004
91. Ting, Carol, Wildman, Steven S., and Bauer, Johannes M., "Welfare comparison of spectrum property and spectrum commons governance regimes," presented at the 32nd Research Conference on Communication, Information and Internet Policy, Alexandria, VA, October 1-3, 2004
92. Cherry, Barbara A. and Bauer, Johannes M., "Adaptive regulation: contours of a policy model for the Internet economy," presented at the 15th Biennial conference of the International Telecommunications Society, Berlin, Germany, September 4-7, 2004.
93. Ting, Carol, Wildman, Steven, and Bauer, Johannes M., "Modeling the efficiency properties of spectrum management regimes," presented at the 15th Biennial conference of the International Telecommunications Society, Berlin, Germany, September 4-7, 2004.
94. Bauer, Johannes M., Lin, Yu-Chieh, Maitland, Carleen F., and Tarnaka, Ankur, "Mobile communications policy and the transition to next-generation wireless services," presented at the 15th Biennial conference of the International Telecommunications Society, Berlin, Germany, September 4-7, 2004.
95. Schneider, Volker and Bauer, Johannes M., "Networks of political action and socio-technical coordination: business associations in the U.S. information and communication sector," International Sunbelt Social Network Conference XXIV, Portorož, Slovenia, May 12-16, 2004.
96. Häge, Frank, Schneider, Volker, and Bauer, Johannes M., "Political and societal veto players and regulatory reform: the transformation of telecommunications in OECD countries," 62nd Midwest Political Science Association Annual Conference, Chicago, Illinois, April 15-18, 2004.
97. Bauer, Johannes M., "Harnessing the swarm: communications policy in an era of ubiquitous networks and disruptive technologies," presented at the European Communications Policy Research Conference, Barcelona,

Spain, March 28-30, 2004.

98. Bauer, Johannes M., Kim, Junghyun, and Wildman, Steven S., "Broadband diffusion: a framework for policy," presented at the conference "Understanding the Dynamics of the Information Ecosystem," Michigan State University – DCL College of Law, East Lansing, Michigan, March 26-27, 2004.
99. Bauer, Johannes M. and Schneider, Volker, "The organization of business interests in the US ICT sector: adapting to competition, convergence, and globalization," International workshop on Organized Business Interests in Changing Environments, University of Konstanz, Germany, January 16-17, 2004.
100. Adelaar, Thomas, and Bauer, Johannes M., "E-commerce, competitiveness and the spatial structure of markets," WeB 2003 Workshop on e-Business, Seattle, WA, December 13-14, 2003.
101. Bauer, Johannes M., "Governing the networks of the information society: Prospects and limits of policy in a complex technical system," Conference of the European Association for Evolutionary Political Economy (EAEPE), Maastricht, Netherlands, November 8-10, 2003.
102. Bauer, Johannes M., "Prospects and limits of comparative research in communications policy-making," 31st Research Conference on Communication, Information and Internet Policy, Arlington, VA, September 19-21, 2003.
103. Bauer, Johannes M., Kim, Junghyun, and Wildman, Steven S., "Broadband uptake in OECD countries: policy lessons from comparative statistical analysis," 31st Research Conference on Communication, Information and Internet Policy, Arlington, VA, September 19-21, 2003.
104. Bauer, Johannes M., Ting, Carol, and Wildman, Steven S., "The experience with non-traditional forms of spectrum management: tragedies of the commons and other myths reconsidered," 31st Research Conference on Communication, Information and Internet Policy, Arlington, VA, September 19-21, 2003.
105. Bauer, Johannes M., "Die Privatisierung von Infrastrukturen aus wirtschaftswissenschaftlicher Sicht," Konstanz, Germany, June 28, 2003.
106. Bauer, Johannes M., "Spectrum policy and the evolution of the mobile internet," 53rd Conference of the International Communications Association, San Diego, May 26, 2003.
107. Bauer, Johannes M., "Zur Steuerung komplexer technischer Systeme am Beispiel der Telekommunikation," Institute for Technology Assessment, Vienna, Austria, January 22, 2003.
108. Bauer, Johannes M., "A comparative analysis of spectrum management regimes", 30th Research Conference on Communication, Information and Internet Policy, Alexandria, VA, September 28-30, 2002.
109. Bauer, Johannes M., Gai, Ping, Kim, Junghyun, Muth, Thomas A., and Wildman, Steven S., "Whither broadband policy?" 30th Communications and Internet Research Conference, Alexandria, VA, September 28-30, 2002.
110. Bauer, Johannes M., "Regulated mixed firms: the state in European telecommunications", 13th Regional European Conference of the International Telecommunications Society, Madrid, Spain, September 8-10, 2002.
111. Bauer, Johannes M., Gai, Ping, Kim, Junghyun, Muth, Thomas A., and Wildman, Steven S., "Foundations of broadband policy", 13th Regional European Conference of the International Telecommunications Society, Madrid, Spain, September 8-10, 2002.
112. Bauer, Johannes M., Maitland, Carleen F., and Westerveld, Rudi, "The European Market for mobile data", 14th Biennial Conference of the International Telecommunications Society, Seoul, Korea, July 18-21, 2002.
113. Bauer, Johannes M., "Spectrum management and the evolution of the mobile communications industry", 14th Biennial Conference of the International Telecommunications Society, Seoul, Korea, July 18-21, 2002.
114. Bauer, Johannes M. and Schneider, Volker, „Die Rolle von Interessenverbänden in der amerikanischen Informations- und Kommunikationspolitik“, Meersburg, Germany, June 6-8, 2002.
115. Bauer, Johannes M. and Trebing, Harry M., "Liberalized infrastructure: regulation and performance", Delft, The Netherlands, May 30, 2002.
116. Bauer, Johannes M., "The Impact of entry cost on the evolution of the market for mobile services," University of Florida and London Business School Conference on Competition in Wireless: Spectrum, Service, and Technology Wars, Gainesville, Florida, February 19-20, 2002.

- 117.Noam, Eli M. and Bauer, Johannes M., “Wireless liberalization policies: the problem of the second-best”, Annual Conference of the American Economic Association, Atlanta, Georgia, January 2-6, 2002.
- 118.Bauer, Johannes M., “Spectrum auctions, prices and network expansion in mobile communications”, 29th Telecommunications Policy Research Conference, Alexandria, Virginia, October 27-29, 2001.
- 119.Maitland, Carleen F., Bauer, Johannes M., and Westerveld, Rudi, “Advanced wireless communications infrastructure: technical, economic, and regulatory conditions of UMTS rollout”, European Conference of the International Telecommunications Society, Dublin, Ireland, September 3-5, 2001.
- 120.Bauer, Johannes M., “The changing role of the state in U.S. infrastructure policy”, Arbeitskreis Politik und Technik des Deutschen Vereins für Politikwissenschaft, University of Konstanz, Germany, June 15-16, 2001.
- 121.Bauer, Johannes M., Weijnen, Margot P. C., Turk, Adam L., and Herder, Paulien M., “Delineating the scope of convergence in infrastructures: new frontiers for competition,” 5th International Conference on Technology, Policy and Innovation, The Hague, Netherlands, June 26-29, 2001.
- 122.Ten Heuvelhof, Ernst, Kuit, Martijn, Stout, Helen D. and Bauer, Johannes M., “Capacity management in infrastructure sectors: the Dutch experience,” 5th International Conference on Technology, Policy and Innovation, The Hague, Netherlands, June 26-29, 2001.
- 123.Bauer, Johannes M., “The economics of Internet flat rates – comment”, European Communications Policy Research Conference, Venice, Italy, March 26-27, 2001.
- 124.Cherry, Barbara A. and Bauer, Johannes M., “Institutional arrangements and rate rebalancing: evidence from the U.S. and Europe,” XIII Biennial Conference of the International Telecommunications Society, Buenos Aires, Argentina, July 2-5, 2000.
- 125.Bauer, Johannes M., “Universal service policy in the European Union,” 50th Annual Conference of the International Communications Association, Acapulco, Mexico, June 1-5, 2000.
- 126.Bauer, Johannes M., Berne, Michel, and Maitland, Carleen F., “Internet access in the European Union and in the United States”, International conference on Internet regulation, Seattle, University of Washington, April 25-28, 2000.
- 127.Bauer, Johannes M., “Normative foundations of telecommunications policy in the European Union,” Santiago de Compostela, Spain, April 12, 2000.
- 128.Bauer, Johannes M., “Policy competition and footloose utilities,” 2nd Annual DIOC Symposium, Delft University of Technology, Delft, The Netherlands, December 9, 1999.
- 129.Bauer, Johannes M., “Competition as a turbulent process: lessons for telecommunications regulation,” 27th Telecommunications Policy Research Conference, Alexandria, Virginia, September 25-27, 1999.
- 130.Bauer, Johannes M. and Yoo, Hyun-Oh, “Competition and the pricing of telecommunications services in the European Union,” 27th Telecommunications Policy Research Conference, Alexandria, Virginia, September 25-27, 1999.
- 131.Maitland, Carleen F. and Bauer, Johannes M., “Global diffusion of the Internet: driving forces and critical mass,” presented at the European Regional Conference of the International Telecommunications Society, Torino, Italy, September 2-4, 1999.
- 132.Bauer, Johannes M., “Regulation and convergence in the United States,” presented at the 49th Annual Conference of the International Communications Association, San Francisco, CA, May 27-31, 1999.
- 133.Bauer, Johannes M., “Universal service in Europe,” Annual conference of the American Society for Information Scientists, Pittsburgh, October 27, 1998.
- 134.Steinfield, Charles, Mahler, Alwin, and Bauer, Johannes M., “Electronic commerce and the local merchant: opportunities for synergies between physical and web presence,” 12th Biennial Conference of the International Telecommunications Society, Stockholm, Sweden, June 21-24, 1998.
- 135.Bauer, Johannes M., “Telecom privatization in Europe: has it worked?” Columbia University, New York, June 12, 1998.

136. Mahler, Alwin and Bauer, Johannes M., "Strategies for physically-based retailers competing in a global virtual environment", CRTPS Conference, Ann Arbor, Michigan, June 5-6, 1998.
137. Yoo, Hyun-Oh and Bauer, Johannes M., "Incentive regulation, economic activity, and the deployment of advanced telecommunications infrastructure," CRTPS Conference, Ann Arbor, Michigan, June 5-6, 1998.
138. Bauer, Johannes M., "Competition in network industries: an evolutionary perspective," presented at the Annual Conference of the Transportation and Public Utilities Group of the American Economic Association, New Orleans, Louisiana, January 4-7, 1997.
139. Bauer, Johannes M., "Market power, technical change and efficiency in telecommunications: Schumpeter reconsidered," presented at the Annual Conference of the American Economic Association, New Orleans, Louisiana, January 4-7, 1997.
140. Bauer, Johannes M., and McCormick, Patricia K. "Diversification and stock market valuation of telephone companies," presented at the 11th Biannual Conference of the International Telecommunications Society, Seville, Spain, June 1996.
141. Bauer, Johannes M. and Cimatoribus, Michela, "The evolution of local telephone competition in the United States," presented at the 11th Biannual Conference of the International Telecommunications Society, Seville, Spain, June 1996.
142. Bauer, Johannes M., "National information infrastructure policy in an era of global networks," presented at the 18th Annual Conference of the Pacific Telecommunications Council, Honolulu, Hawaii, January 14-18, 1996.

B. Professional conferences and meetings (selected)

1. Bauer, Johannes M. (2017), "Innovation in advanced communication systems", 8th CAIDA-MIT Workshop on the Economics of the Internet, San Diego, CA, December 13-14, 2017.
2. Bauer, Johannes M. "Emerging ICT trends", 15th World Telecommunication/ICT Indicator Symposium (WTIS-17), Hammamet, Tunisia, 14-16 November 2017.
3. Bauer, Johannes M., "Regulation and governance in next generation ICT", PURC-World Bank Seminar, University of Florida, Gainesville, June 19, 2017.
4. Bauer, Johannes M., "ICT convergence", PURC-World Bank Seminar, University of Florida, Gainesville, January 16, 2017.
5. Bauer, Johannes M., "Regulation and governance in next generation ICT", PURC-World Bank Seminar, University of Florida, Gainesville, June 12, 2016.
6. Bauer, Johannes M., "Emerging media and communications policy", Keynote, 2015 Conference of the Taiwan Academy for Information Systems (TAIS), Hsinchu City, Taiwan, November 14, 2015.
7. Bauer, Johannes M., "Regulation and governance in next generation ICT", PURC-World Bank Seminar, University of Florida, Gainesville, June 16, 2015.
8. Bauer, Johannes M., "Regulation and governance in next generation ICT", PURC-World Bank Seminar, University of Florida, Gainesville, January 20, 2015.
9. Bauer, Johannes M., "Designing adaptive regulation", 5th CAIDA-MIT Workshop on the Economics of the Internet, San Diego, CA, December 10-11, 2014.
10. Bauer, Johannes M., "Communications market and regulatory structures", NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 11, 2014.
11. Bauer, Johannes M. "Trends in telephony and media", NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 11, 2014.
12. Bauer, Johannes M., "Regulating in a dynamic industry environment", ACCC/AER Regulatory Conference, Brisbane, Australia, August 8, 2014.

13. Bauer, Johannes M., "Governing the mobile broadband ecosystem", Korea Association for Telecommunications Policy, 20th Global Workshop, Honolulu, Hawaii, June 27, 2014.
14. Bauer, Johannes M., "Network neutrality: The evolving debate", MERIT Member Conference, Ypsilanti, MI, May 22, 2014.
15. Bauer, Johannes M., "Regulation and governance in next generation ICT", PURC-World Bank Seminar, University of Florida, Gainesville, January 21, 2014.
16. Bauer, Johannes M., "Market structure and concentration in ICT markets", NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 13, 2013.
17. Bauer, Johannes M., "Trends in media and information industries", NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 13, 2013
18. Bauer, Johannes M., "Regulation and Governance in Next Generation ICT", PURC-World Bank Seminar, University of Florida, Gainesville, June 18, 2013.
19. Bauer, Johannes M., "Regulatory economics in new telecom markets: US and European perspectives", LSE Network Economy Forum, London, March 25, 2013.
20. Bauer, Johannes M., "The Role of Regulation and Governance in Next Generation ICT", PURC-World Bank Seminar, University of Florida, Gainesville, January 22, 2013.
21. Bauer, Johannes M., Lead Rapporteur, Working Group 7, "An international analytical framework for measuring broadband and assessing the economic impact of the Internet", Broadband Metrics Workshop, London: Office of Communications, June 14-15, 2012.
22. Bauer, Johannes M., "Regulation and innovation in telecommunications," ETNO/Total Telecom Summit, Brussels, Belgium, May 30, 2012.
23. Bauer, Johannes M., "Broadband universal service in the United States," CEPS Digital Forum, Brussels, Belgium, October 25, 2011.
24. Bauer, Johannes M., "Panarchy: the future of Internet governance," Global Economic Symposium, Kiel Germany, October 6-7, 2011.
25. Bauer, Johannes M., Grubestic, A. and LaRose, "From data to action: mining the National Broadband Map to improve policy", presented at the workshop of the National Telecommunications and Information Administration, US Department of Commerce, Washington, DC, March 2011.
26. Bauer, Johannes M. "Unbundling in the U.S.: changing rationales and experience", National Telecommunications Commission of Thailand, Bangkok, July 30, 2010.
27. Bauer, Johannes M., "The lowest cost frontier methodology", LIRNEasia@five, Colombo, Sri Lanka, December 10, 2009.
28. Bauer, Johannes M., "Harnessing advanced communications for economic development", Distinguished Lecture, Dubai, October 28, 2009.
29. Van Eeten, Michel, Bauer, Johannes M., Asghari, H. And Tabatabaie, S., "The economics of malware II: Addressing the security externalities of end-users," Organisation for Economic Development and Co-operation, Paris, October 12, 2009.
30. Bauer, Johannes M., "Balancing markets and regulation," NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 10, 2009.
31. Bauer, Johannes M., "Market, competition, and forbearance," NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 10, 2009.
32. Bauer, Johannes M., "Communications and network neutrality," NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 10, 2009.
33. Bauer, Johannes M. "Balancing competition, investment and innovation in advanced telecommunications," National Telecommunications Commission, Bangkok, April 1-3, 2009.

34. Bauer, Johannes M., "Regulation, public policy and investment in communications infrastructure", Williamsburg, VA, December 11, 2008.
35. Bauer, Johannes M., "Principles of interconnection in next-generation networks," IDATE DigiWorld Conference, Montpellier, France, November 18, 2008.
36. Bauer, Johannes M., van Eeten, Michel, Chattopadhyay, Tithi, and Wu, Belinda, "Financial implications of network security: malware and spam," presented at:
 - a. ITU Regional Cybersecurity Forum, Sofia, Bulgaria, October 6-8, 2008
 - b. ITU Regional Cybersecurity Forum, Brisbane, Australia, July 14-18, 2008
 - c. Global Meeting of ITU-D Study Group 3, Geneva, Switzerland, March 31-April 4, 2008
37. Bauer, Johannes M. "Balancing markets and public values: a socio-technical design perspective," Turkish Energy Market Regulatory Agency education program, Michigan State University, September 15, 2008.
38. Bauer, Johannes M., "Across the Atlantic: deregulation and industrial policy in the United States," Berlin, Germany, September 2, 2008.
39. Van Eeten, Michel J. G., Bauer and Johannes M with de Bruijne, Mark, Groenewegen, John, and Lemstra, Wolter, "The economics of malware: security decisions, incentives, and externalities," presented at
 - a. OECD Working Party on Information Security and Privacy meeting, Paris, March 4, 2008
 - b. GOVCERT, The Hague, the Netherlands, October 17, 2007
 - c. LAP/CNSA/MAAWG Workshop, Arlington, VA, October 9-11, 2007
 - d. OECD Working Party on Information Security and Privacy meeting, Ottawa, Canada, October 1, 2007
 - e. APEC-OECD Malware Workshop, Manila, Philippines, April 22-23, 2007
40. Bauer, Johannes M. "NGN Regulation, investment and innovation," Brussels, May 7, 2008.
41. Bauer, Johannes M. "Balancing markets and regulation," NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 12, 2008.
42. Bauer, Johannes M., "Market, competition, and forbearance," NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 12, 2008.
43. Bauer, Johannes M., "Communications and network neutrality," NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 12, 2008.
44. Bauer, Johannes M., "Regulierung, Investition und Innovation am Beispiel neuer Kommunikationsnetze," Vienna, Austria, February 7, 2008.
45. Bauer, Johannes M., "Regulierung von NGN," Vienna, Austria, December 2007.
46. Bauer, Johannes M., "Network neutrality," Third Transatlantic Telecom Forum, Montpellier, France, November 14, 2007.
47. Bauer, Johannes M., "Balancing markets and regulation," NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 13, 2007
48. Bauer, Johannes M., "Communications network neutrality," NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 13, 2007
49. Bauer, Johannes M., "Convergence, franchising, and network neutrality in telecoms," Michigan Forum, East Lansing, January 26, 2007
50. Bauer, Johannes M., "Communications and information: technological and regulatory convergence issues," NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 15, 2006
51. Bauer, Johannes M., "Balancing markets and regulation," NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 14, 2006

52. Bauer, Johannes M., "Telecommunications network economics," NARUC Advanced Regulatory Studies Program, Michigan State University, East Lansing, June 5, 2006
53. Bauer, Johannes M., "USA-Deregulierung als Innovationsmotor," Arthur D. Little Conference on the Regulation of Next Generation Networks, Berlin, Germany, May 31, 2006
54. Bauer, Johannes M., "Telecommunication network economics," Workshop for Mariana Islands Regulators, East Lansing, Michigan, November 11, 2005
55. Bauer, Johannes M., "Balancing markets and regulation," 47th NARUC Regulatory Studies Program, East Lansing, Michigan, August 12, 2005
56. Bauer, Johannes M., "Comparative regulatory theory and practice," International Regulatory Studies Workshop, Michigan State University, July 30, 2005
57. Bauer, Johannes M., "Advanced telecommunication network economics," NARUC Advanced Regulatory Studies Program, East Lansing, Michigan, April 25, 2005
58. Bauer, Johannes M., "Frameworks for telecommunications reform," 2005 Michigan Forum, January 21, 2005, East Lansing, Michigan
59. Bauer, Johannes M., "Studies of broadband adoption," Workshop Formulating a Research Agenda for Communications Policy, Federal Communications Commission, Washington, D.C., December 10, 2004
60. Bauer, Johannes M., "Unlicensed wireless services," Workshop Policy Responses to VoIP, Unlicensed Wireless, Powerline and other Competitive Telecommunication Technologies, Charleston, SC, December 5, 2004
61. Bauer, Johannes M., "Telecommunications: economics, structure, regulation," 46th NARUC Annual Regulatory Studies Program, East Lansing, Michigan, August 2, 2004
62. Bauer, Johannes M., "Comparative regulatory theory and practice," International Regulatory Studies Workshop, Michigan State University, July 31, 2004
63. Bauer, Johannes M., „Herausforderungen für die europäische Wirtschaftspolitik im 21. Jahrhundert,“ Symposium Öffentliche Wirtschaft, Geld- und Finanzpolitik in Honor of Ewald Nowotny, Vienna, Austria, June 28, 2004
64. Bauer, Johannes M., "Competition, next generation networks, and cooperative federalism," Michigan Forum 2004, East Lansing, Michigan, February 6, 2004
65. Bauer, Johannes M., "Emerging alternatives to regulation," 45th NARUC Annual Regulatory Studies Program, East Lansing, Michigan, August 15, 2003
66. Bauer, Johannes M., "Unbundling public utility functions and services," 45th NARUC Annual Regulatory Studies Program, East Lansing, Michigan, August 12, 2003
67. Bauer, Johannes M., "Telecommunications: economics, structure, regulation," 45th NARUC Annual Regulatory Studies Program, East Lansing, Michigan, August 4, 2003
68. Bauer, Johannes M., "Theoretical and practical developments in regulation and their role in privatization and globalization," International Regulatory Studies Workshop, Michigan State University, August 2, 2003
69. Bauer, Johannes M., "Alternative methods of public utility regulation," 44th NARUC Annual Regulatory Studies Program, East Lansing, Michigan, August 9, 2002
70. Bauer, Johannes M., "Public utility regulation, privatization, and globalization," 44th NARUC Annual Regulatory Studies Program, East Lansing, Michigan, August 3, 2002.
71. Bauer, Johannes M., "Telecommunications reform in Europe: lessons for the United States?," 30th Annual Conference of the Public Utilities Research Center (PURC), University of Florida, Gainesville, Florida, February 21-22, 2002.
72. Bauer, Johannes M., "Concepts of public utility regulation for developing countries", 41st NARUC Annual Regulatory Studies Program, East Lansing, Michigan, August 4, 1999.
73. Bauer, Johannes M., "Principles of performance-based regulation," Ontario Energy Board, Toronto, September 22-

23, 1998.

74. Bauer, Johannes M., "Electric utility restructuring in the United States," Jerusalem, Israel, December 15, 1997.
75. Bauer, Johannes M., "Market power and competition in the emerging energy industries," Conference of the Canadian Energy Research Institute, Banff, Canada, October 30, 1997.
76. Bauer, Johannes M., "Energy mergers and restructuring", presented at the Mid-American Regulators Conference, Des Moines, Iowa, June 16, 1997.
77. Bauer, Johannes M., "Incentive regulation for natural gas utilities," Conference of the Ente Nacional Regulador del Gas (ENARGAS), Buenos Aires, Argentina, May 17, 1997.
78. Bauer, Johannes M., "Performance-based regulation," CAMPUT, Niagara-on-the-Lake, Canada, April 22, 1997.
79. Bauer, Johannes M., "Price-cap regulation for telecommunications", La Paz, Bolivia, January 12, 1996.

Additional presentations on issues of communications policy, privatization, institution-building and creation of regulatory frameworks, performance-based regulation, globalization of telecommunication services providers, and the establishment of an international regulatory framework.

Please visit <http://www.msu.edu/~bauerj> for professional presentations prior to 1996.

C. Other public talks

1. Bauer, Johannes M. "Governance der Wissensgesellschaft in den USA und der Europäischen Union", Faculty Colloquium Political Science, University of Constance, Germany, June 16, 2010.
2. Bauer, Johannes M. "Netzneutralität in den USA und in Europa", University of Zurich, May 18, 2010.

VIII. TEACHING EXPERIENCE

A. Undergraduate courses

1. *Vienna University of Economics and Business Administration, Vienna, Austria*
 - Microeconomics
 - Macroeconomics
 - National Accounting
2. *Michigan State University, East Lansing, MI, USA*
 - Comparative and International Telecommunications
 - Basic Telecommunication Policy
 - Economics of Telecommunications and Information Industries
 - Global Media
 - Media and Communications Policy
 - Media Economics and Business Strategy
3. *University of Constance, Germany (visiting)*
 - Information and Communications Policy
4. *University of Zurich (visiting)*
 - International and comparative telecommunications

B. Graduate courses

1. Vienna University of Economics and Business Administration, Vienna, Austria

- Microeconomics
- Macroeconomics
- Public Utility Regulation
- Industrial Organization
- Economics and Politics of Regulation and Deregulation
- Public Enterprise Economics
- Public Finance

2. Michigan State University, East Lansing, MI, USA

- Telecommunications Policy Analysis
- Comparative and International Telecommunications
- Communications Law and Policy
- The Economics of Information Industries
- Media and Information Economics

3. University of International Business and Economics (UIBE), Beijing, China

- Principles of Information and Communication Policy

4. University of Constance, Germany (visiting)

- Governance: Theory, Practice, Experience
- Seminar in Complexity Theory

5. University of Zurich, Switzerland (visiting)

- U.S. Media Policy

C. Continuing education

Numerous lectures on: Information and Communications Policy; Business Models in Advanced Media and Communications Services; Comparative Analysis of Information Policy; Economic and Legal Principles of Regulation; Effects of communications Policy on Investment and Innovation; Alternatives to Traditional Rate Base/Rate-of-Return Regulation, Incentive Regulation, Regulatory Treatment of Foreign Investment, Deregulation as a Policy Strategy.

IX. FUNDED RESEARCH

- | | |
|-----------|---|
| 2013-2014 | Principal investigator, “Telecom technology market model”, funded by a consortium of federal agencies, including The White House Office of Science and Technology Policy, Department of Defense, and National Institute of Standards (NIST) (\$223,105 with an additional supplement of \$42,000) |
| 2010-2012 | Co-principal investigator, “Broadband adoption through education and e-entrepreneurship in Michigan's urban cores”, funded by the U.S. Department of Commerce (\$5,216,094) |
| 2009-2013 | Principal investigator, “Improving governance for next-generation ICT infrastructure,” funded by the BulleU.S. National Science Foundation, Washington, DC (\$698,030) |

- 2008-2010 Co-principal investigator, “Addressing information security issues of end-users”, with Michel van Eeten, funded by the Organisation for Economic Co-operation and Development (OECD), Paris (\$45,000)
- 2008-2009 Co-principal investigator “The State of Information and Communication Infrastructure in Michigan”, with Kurt DeMaagd and Steven S. Wildman, funded by the Institute of Public Policy and Social Science Research (IPPSR) at Michigan State University (\$10,000)
- 2006-2009 Co-principal investigator of “The dynamics of complex communication systems,” Trans-Coop Project with Volker Schneider, University of Konstanz, funded by the Alexander von Humboldt Foundation, Germany (\$40,000 to German partner)
- 2007-2008 Co-principal investigator “Financial aspects of malware,” with Michel van Eeten, Technical University Delft, the Netherlands, funded by the International Telecommunication Union (ITU), Geneva, Switzerland (\$25,000)
- 2006-2008 Co-principal investigator of “The economics of malware,” with Michel van Eeten, John Groenewegen, and Wolter Lemstra, funded by the Organisation for Economic Co-operation and Development (OECD), Paris and the Dutch Ministry of Economic Affairs (\$25,000)
- 2003-2004 Co-principal investigator of “U.S. Telecommunications Policy-Making: Who Participates and Who is Heard: The Role of Research and Ideas”, funded by the Ford Foundation (\$100,000)
- 2002-2006 Co-principal investigator of “Achieving innovative and reliable services in unlicensed spectrum,” funded by the U.S. National Science Foundation (collaborative research with Rutgers University and Cornell University) (\$1,450,000)
- 2001-2002 Co-investigator of the U.S. segment of a study on the role of business associations on information and communications policy in the G7 countries, funded by the German Science Foundation (\$25,000)
- 2001 200 Co-principal investigator of a project studying benefits and policy challenges of broadband communications, funded by the Michigan Economic Development Corporation and MERIT, (\$59,000)
- 2000-2002 Co-investigator of a project on the regional impacts of e-commerce, funded by the City of Vienna, Austria (\$30,000)
- 2001 Co-principal investigator of a study on the technical, economic, and regulatory aspects of UMTS wireless infrastructure development, funded by Ben Nederlands (\$60,000)
- 1998-1999 Principal investigator of a study on the role of competition in network industries (\$20,000)
- 1994-1995 Principal investigator of a study on “Effects of regulatory reform in the U.S. and in Canada”, funded by CRCT, Ottawa, Canada (\$20,000)
- 1994-1995 Principal investigator of a study on "State and federal regulatory repercussions of the globalization of network-based industries in energy and telecommunications", funded by MSU All University Research Initiation Grant (\$10,000)
- 1993-1998 Multiple grants from the private sector in support of the research and training activities of the Institute of Public Utilities (\$680,000)
- 1988-1990 Principal investigator of a study on the deregulation potentials in Austrian professional services industries, funded by the Austrian Ministry of Finance

X. OUTREACH AND PUBLIC SERVICE

A. Service as referee

1. Journals

Bulletin of Economic Research

Communications and Convergence Review
Journal of Computer-Mediated Communication
Governance
Information Economics and Policy
International Journal of Media Management
International Review of Administrative Sciences
International Telecommunications Policy Review
Journal of Computer-Mediated Communication
Journal of Economics and Management Strategy
Journal of Information Policy
Journal of Information Technology
Journal of Media Economics
Palgrave Communications
Policy and Internet
Research Policy
Telecommunications Policy
Telematics & Informatics
The Information Society
Utilities Policy

2. Publishers

Cambridge University Press (US/UK)
Edward Elgar (UK)
Lexington Books (US)
MIT Press (US)
Oxford University Press (US/UK)
Routledge (UK)
Sage (US)

3. Foundations

Economic and Social Research Council (UK)
National Science Foundation (US)
Netherlands Organization for Scientific Research (Netherlands)
Next Generation Infrastructure Foundation (NGInfra, Netherlands)
Social Sciences and Humanities Research Council (Canada)

4. Conferences (selected)

Africa-Asia-Pacific Regional Conferences of the International Telecommunications Society
Biannual Conferences of the International Telecommunications Society (ITS)
Dynamic Spectrum Access (DySPAN) conferences
European Communications Policy Research Conference (EuroCPR)
European Regional Conferences of the International Telecommunications Society (E-ITS)
International Communications Association (ICA)
Research Conferences on Communications, Information and Internet Policy (TPRC)

B. Service on conference committees (selected)

Program Committee, Asia-Africa Regional Conference of the International Telecommunications Society (2010-present)
Program Committee, European Regional Conference of the International Telecommunications Society (2005-present)
Program Committee, Conference of the International Telecommunications Society (2004-present)

Scientific Advisory Committee, European Communications Policy Research Conference (EuroCPR) (2008-present)
Program Committee, Research Conference on Communications, Information and Internet Policy (2006-2008)

C. University citizenship (selected)

Co-Chair, AAHD Restructuring and Re-visioning Task Force, Michigan State University (2017)
Chairperson, College Advisory Committee, College of Communication Arts and Sciences, MSU (2005-2007)
Member, Faculty Council and Academic Council, MSU (2006-2008)
Member, University Committee on Faculty and Tenure (2005-2009)
Member, University Hearing Board (2005-007)
Numerous Department-level Committees

XI. CONSULTING

Engagements as a consultant for public, non-profit and private sector organizations, including The World Bank, the International Telecommunication Union (ITU), the Organisation for Economic Co-operation and Development (OECD), LIRNEasia, the OPTA (Netherlands), the Austrian Ministry of Finance, the US National Telecommunications and Information Administration (NTIA), Canadian Radio-television and Telecommunications Commission (CRTC), Deutsche Telekom Foundation, Telekom Austria, and Ben Nederlands (now T-Mobile).