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# JOHANNES M. BAUER

January 2025

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## I. CURRENT POSITIONS

2018-present      Director, James H. and Mary B. Quello Center, Michigan State University  
2003-present      Professor, Department of Media and Information, Michigan State University

## II. CONTACT AND PERSONAL INFORMATION

Work addresses: Federal Communications Commission  
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Citizenship:      Dual American-Austrian citizen

## III. EDUCATION

1989              Ph.D. in Economics, University of Economics (now Vienna University of Economics and Business),  
Vienna, Austria

1982              M.A. in Economics, University of Economics (now Vienna University of Economics and Business),  
Vienna, Austria

## IV. PROFESSIONAL EXPERIENCE

2018-present      Quello Chair and Director, James H. and Mary B. Quello Center, Michigan State University  
2003-present      Professor, Department of Media and Information, Michigan State University  
2023-2024        Chief Economist, U.S. Federal Communications Commission (FCC), Washington, DC  
2013-2019        Chairperson, Department of Media and Information, Michigan State University  
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  
2003-2005        Executive Director, Quello Center for Telecommunication Management and Law

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

2023-	Senior Fellow, The George Washington University Competition & Innovation Lab
2022-2023	Member of the Ingham County Broadband Taskforce
2022	MSU Distinguished Partnership Award for Community-Engaged Service
2016-present	Consulting Editor, <i>Telecommunications Policy</i>
2012-present	Fellow, Columbia Institute for Tele-Information (CITI), Columbia University, New York
2010-present	International Editor, <i>International Telecommunications Policy Review</i>
2009-present	Member, International Scientific Advisory Board, LIRNEasia, Colombo, Sri Lanka
2004-present	Member, Editorial Board, <i>Information Economics and Policy</i>
2013	Distinguished Faculty Award, Michigan State University
2016-2020	Member of the Board of Directors and Treasurer, iSchools
2010-2016	Associate Editor, <i>Telecommunications Policy</i>
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)
2009-2016	Research Associate, Quello Center, Michigan State University
2009-2011	Member, Scientific Committee, European Communications Policy Research Conference (EuroCPR)
2007-2012	Member, Editorial Board, <i>Communications &amp; Strategies</i>
2005-2016	Member of the Executive Board, International Telecommunications Society (ITS)
2005-2010	Book editor, <i>Journal of Media Economics</i>
2003-2018	Senior Fellow, Institute of Public Utilities
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, Columbus, Ohio

## VI. PUBLICATIONS

### A. Peer-reviewed journal articles

1. Azic, Mark; Bauer, Johannes M.; Kauffman, Steven; Kwerel, Evan; LaFontaine, Paul; Ocker, Jeffrey; Schwarz, Molly; & Stancill, Martha (2024). Economics at the FCC 2023-2024. *Review of Industrial Organization*, Published online December 21, 2024. <https://doi.org/10.1007/s11151-024-10002-0>
2. Prado, Tiago S., & Bauer, Johannes M. (2022). Big Tech platform acquisitions of start-ups and venture capital funding for innovation. *Information Economics and Policy*, 59, June 2022. <https://doi.org/10.1016/j.infoecopol.2022.100973>
3. Bauer, Johannes M. (2022). Toward new guardrails for the information society. *Telecommunications Policy*, 46(5), 102350. <https://doi.org/10.1016/j.telpol.2022.102350>
4. Bauer, Johannes M., & Bohlin, Erik (2022). Regulation and innovation in 5G markets, *Telecommunications Policy*, 46(4), 102260. <https://doi.org/10.1016/j.telpol.2021.102260>
5. Knieps, Günter, & Bauer, Johannes M. (2022). Internet of Things and the economics of 5G-based local industrial networks, *Telecommunications Policy*, 46(4), 102261. <https://doi.org/10.1016/j.telpol.2021.102261>
6. Hampton, Keith N.; Robertson, Craig T.; Fernandez, Laleah; Shin, Inyoung; & Bauer, Johannes M. (2021). How variation in internet access, digital skills, and media use are related to rural student outcomes: GPA, SAT, and educational aspirations. *Telematics and Informatics*, 63, 101666. <https://doi.org/10.1016/j.tele.2021.101666>
7. Reisdorf, Bianca C.; Blank, Grant; Bauer, Johannes M.; Cotten, Shelia; Robertson, Craig T.; & Knittel, Megan (2021). Information seeking patterns and COVID-19 in the United States. *Journal of Quantitative Description: Digital Media*, 1. <https://doi.org/10.51685/jqd.2021.003>
8. Prado, Tiago S. & Bauer, Johannes M. (2021). Improving broadband policy design using market data: A general framework and application to Brazil, *Telecommunications Policy*, 45(5), 102111. <https://doi.org/10.1016/j.telpol.2021.102111>
9. Banerjee, Sudipta; Swearingen, Thomas; Shillair, Ruth; Bauer, Johannes M.; Holt, Thomas J.; & Ross, Arun (2021). Using machine learning to examine cyberattack motivations on web defacement data. *Social Science Computer Review*, 40(4), 914-932. <https://doi.org/10.1177/0894439321994234>
10. Holt, Thomas J.; Lee, Jee Rin; Freilich, John D.; Chermak, Steven M.; Bauer, Johannes M.; Shillair, Ruth & Ross, Arun (2020) An exploratory analysis of the characteristics of ideologically motivated cyberattacks, *Terrorism and Political Violence*, 34(7), 1305-1320. <https://doi.org/10.1080/09546553.2020.1777987>
11. Hong, Soo Jeong; Bauer, Johannes M.; Lee, Kwangjin; & Granados, Nelson F. (2020). Drivers of supplier participation in ride-hailing services, *Journal of Management Information Systems*, 37(3), 602-630. <https://doi.org/10.1080/07421222.2020.1790177>
12. Feijóo, Claudio; Kwon, Youngsun; Bauer, Johannes M.; Bohlin, Erik; Howell, Bronwyn; Jain, Rekha; Potgieter, Petrus; Vu, Khuong; Whalley, Jason; & Xia, Jun (2020). Harnessing artificial intelligence (AI) to increase wellbeing for all: The case for new technology diplomacy, *Telecommunications Policy*, 44(6), 101988.

<https://doi.org/10.1016/j.telpol.2020.101988>

13. Bauer, Johannes M. (2018), The Internet and income inequality: Socio-economic challenges in a hyperconnected society, *Telecommunications Policy*, 42(4): 333-343. <https://doi.org/10.1016/j.telpol.2017.05.009>
14. Bauer, Johannes M. & Knieps, Günter (2018), Complementary innovation and network neutrality, *Telecommunications Policy*, 42(2): 172-183. <https://doi.org/10.1016/j.telpol.2017.11.006>
15. Garcia-Murillo, Martha, MacInnes, Ian, & Bauer, Johannes M. (2018). Techno-unemployment: A framework for assessing the effects of information and communication technologies on work, *Telematics & Informatics*, 13(7): 1863-1876. <https://doi.org/10.1016/j.tele.2018.05.013>
16. 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. <https://doi.org/10.1109/MSP.2015.110>.
17. Bauer, Johannes M. (2015), Governing the mobile broadband ecosystem, *International Telecommunications Policy Review*, 22(2): 1-27. <https://ssrn.com/abstract=2635950>
18. Bauer, Johannes M. (2014), Platforms, systems competition, and innovation: reassessing the foundations of communications policy, *Telecommunications Policy*, 38(8-9): 662-673. <https://doi.org/10.1016/j.telpol.2014.04.008>
19. 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. <https://doi.org/10.1080/00036846.2013.872765>
20. Bauer, Johannes M. & Obar, Jonathan A. (2014), Reconciling political and economic goals in the net neutrality debate, *The Information Society*, 30(1): 1-19. <https://doi.org/10.1080/01972243.2013.856362>
21. 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. <https://doi.org/10.1016/j.giq.2012.11.004>
22. 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>
23. Bauer, Johannes M. & Van Eeten, Michel J.G. (2011), "Introduction to the economics of cybersecurity", *Communications & Strategies*, no. 81, 1<sup>st</sup> quarter 2011, p. 13-21.
24. Bauer, Johannes M. (2010), "Changing roles of the state in telecommunications," *International Telecommunications Policy Review*, 17: 127-145.
25. Bauer, Johannes M. (2010), "Learning from each other: conceptual and empirical foundations of cross-national benchmarking," *Info*, 12(6): 2-20.
26. Bauer, Johannes M. (2010) "Regulation, public policy, and investment in communications infrastructure," *Telecommunications Policy*, 34(1): 65-79.
27. 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.
28. 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.
29. 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.
30. Bauer, Johannes M. and Van Eeten, Michel J. G. (2009) "Cybersecurity: stakeholder incentives, externalities, and policy options," *Telecommunications Policy*, 33(10-11): 706-719.
31. 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.

32. 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.
33. 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.
34. 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>.
35. 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.
36. Wildman, Steven S., Bauer, Johannes M. and Ting, Carol (2006) "Modeling the efficiency properties of spectrum governance regimes," *Info*, 8(2), 82-96.
37. Bauer, Johannes M. (2005) "Bundling, differentiation, alliances, and mergers: convergence strategies in U.S. communications markets," *Communications & Strategies*, 60, 59-83.
38. Bauer, Johannes M. (2005) "Regulation and state ownership: conflicts and complementarities in EU telecommunications," *Annals of Public and Cooperative Economics* 76(2), 151-177.
39. Bauer, Johannes M. (2005), "Unbundling policy in the United States: players, outcomes and effects," *Communications & Strategies* 57, 59-82.
40. 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.
41. 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.
42. Bauer, Johannes M. (2004), "Harnessing the swarm: communications policy in an era of ubiquitous networks and disruptive technologies," *Communications & Strategies*, 54, 2<sup>nd</sup> quarter, 19-43.
43. 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.
44. Bauer, Johannes M. (2003) "Impact of license fees on the prices of mobile service," *Telecommunications Policy* 27, 417-434.
45. 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.
46. 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.
47. 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.
48. 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.
49. Bauer, Johannes M. (1999) "Universal service in Europe," *Government Information Quarterly* 16, 329-343.
50. 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.
51. Bauer, Johannes M. (1997) "Market power, technical change and efficiency in telecommunications: Schumpeter reconsidered," *Journal of Economic Issues* 31, 557-565.
52. Bauer, Johannes M. (1995) "The regulatory treatment of utility diversification," *Land Economics* 33, 386-400.
53. Bauer, Johannes M. (1994) "The emergence of global networks in telecommunications: transcending national regulation and market constraints," *Journal of Economic Issues* 28, 109-124.
54. Bauer, Johannes M. (1993) "Telecommunications in post-1992 Europe", *International Review of Comparative Public Policy* 5, 109-135.

55. 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].reverse
56. Bauer, Johannes M. (1989) "Organisationsform und Effizienz in der Versorgungswirtschaft," *Der öffentliche Sektor* 15, 133-152 [Sector organization and the efficiency of public utilities].
57. Bauer, Johannes M. (1987) "Privatisierung und Effizienz," *Wirtschaftspolitische Blätter* 34, 584-593 [Privatization and efficiency].
58. Bauer, Johannes M., et.al. (1987) "A technology assessment of new telecommunications services," *Telecommunications Policy* 11, 334-346.
59. 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**

60. Bauer, Johannes M. and Latzer, Michael (eds.) (2017), *Handbook on the Economics of the Internet*, Paperback edition. Cheltenham, UK and Northampton, MA: Edward Elgar.
61. Bauer, Johannes M. and Latzer, Michael (eds.) (2016), *Handbook on the Economics of the Internet*, Cheltenham, UK and Northampton, MA: Edward Elgar.
62. Bauer, Johannes M. & Bohlin, Erik (eds.) (2014), Selected papers from the 2013 Research Conference on Communications, Information and Internet Policy, *Telecommunications Policy*.
63. Bauer, Johannes M., Bohlin, Erik, & deVries, Pierre (eds.) (2013), Selected papers from the 2012 Research Conference on Communications, Information and Internet Policy, *Telecommunications Policy*.
64. Bauer, Johannes M., Lang, Achim, and Schneider, Volker (eds.) (2012), *Innovation Policies and Governance in High-technology Industries: The Complexity of Coordination*, Berlin: Springer.
65. Anania, Loretta, Bauer, Johannes M., Van Eeten, Michel (2011) (eds.), Special Issue on The economics of cybersecurity, *Communications & Strategies*, no. 81, 1<sup>st</sup> quarter 2011.
66. 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.
67. 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.
68. 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.
69. 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].
70. 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].
71. 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 conference proceedings**

72. Bauer, Johannes M. (forthcoming). Federal-state realignment of broadband and digital equity policy in the

United States, in: M. Warner, N. Bravo, & D. A. Shen (eds.), *Bridging the digital divide in the us: planning innovative state and local approaches*, Routledge.

73. Bauer, J. M., & Latzer, M. (2024). Co-evolution: Applications and implications for governance research in communication studies. In M. Puppis, H. van den Bulck, & R. Mansell (Eds.), *Handbook of media and communication governance*. Edward Elgar (penultimate version available at SSRN: <https://ssrn.com/abstract=4433276>).
74. Bauer, J.M., & Prado, T.S. (2024). Digital innovation: An information-economic perspective. In D. R. Raban & J. Włodarczyk (Eds.), *The Elgar companion to information economics*. Edward Elgar (penultimate version available at SSRN: <https://ssrn.com/abstract=4433247>).
75. Bauer, J. M. (2022). Agile regulation: Experiments in flexible governance. In F. Birke, G. Brunekreeft, V. Stocker, & H.-Jörg. Weiß (Eds.), *Perspektiven der Netzökonomie – Beiträge zu Ehren von Günter Knieps* (pp. 31-49). Nomos.
76. Schneider, V., Bauer, J. M. (2021). Governance und Komplexität: Theorieentwicklung zur gesellschaftlichen Koordination und Ordnungsbildung [Governance and Complexity: The Development of Theories of Social Coordination and Order]. In P. Kenis (Ed.), V. Schneider (Ed.) *Organisation und Netzwerk. Governance in Wirtschaft und Politik*, (pp. 463-494). Frankfurt am Main: Campus Verlag.
77. Hong, Soo Jeong, Bauer, Johannes M., Lee, Kwangjin, Granados, Nelson F. (2019), Effects of Flexibility, Security, and Information Features on Supplier Participation in the Sharing Economy: An Empirical Study, *Proceedings of the 2020 Hawaii International Conference on Information Science (HICSS 2020)*.
78. Bauer, Johannes M. (2019), “Regulation and digital innovation”, in: Günter Knieps & Volker Stocker (eds.), *The Future of the Internet: Innovation, Integration and Sustainability*, pp. 77-107, Baden-Baden: Nomos.
79. 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.
80. 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.
81. 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.
82. 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.
83. 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.
84. 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.
85. 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.
86. 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.
87. 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.

88. 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.
89. 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.
90. 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.
91. Bauer, Johannes M. and Van Eeten, Michel (2009) „Securing cyberspace: realigning incentives in the ICT value net”, *Proceedings of WebSci '09*, Athens, Greece.
92. 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.
93. 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.
94. 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.
95. 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.
96. 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.
97. 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.
98. 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.
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## VII. PRESENTATIONS AT ACADEMIC CONFERENCES AND PROFESSIONAL MEETINGS

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27. Bauer, Johannes M., & Tsai, Hsin-yi, "An examination of the factors enhancing information infrastructure quality," CPR LATAM, Bogotá, Colombia, May 29-30, 2014.
28. 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.
29. 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.
30. Bauer, Johannes M., "The Evolution of the European Regulatory Framework for Electronic Communications," CEPAL-IBEI Conference on Innovation and Regulation in Telecommunications: A Comparative Perspective on Europe and Latin America, Barcelona, Spain, September 30-October 1, 2013.
31. Asghari, Hadi, Eeten, Michel, Bauer, Johannes M., & Mueller, Milton L., "Deep packet inspection: effects of regulation on its deployment by Internet providers," 41st Research conference on Communication, Information and Internet Policy (TPRC), Arlington, VA, September 27-29, 2013, available at SSRN <http://ssrn.com/abstract=2242463>.
32. Brooks, Brandon, LaRose, Robert, Ma, Wenjuan, Tsai, Hsin-yi Sandy, Bauer, Johannes M., Wildman, Steven, & Steinfield, Charles, "Impacts of the Broadband Technology Opportunity program in Michigan urban communities," 41st Research conference on Communication, Information and Internet Policy (TPRC),

Arlington, VA, September 27-29, 2013.

33. LaRose, Robert, Brooks, Brandon, Ma, Wenjuan, Tsai, Hsin-yi Sandy, Bauer, Johannes M., Wildman, Steve, Steinfield, Charles, The adoption of broadband in the inner city, Expert Workshop on Theory of Broadband, New York, Columbia University, May 31-June 1, 2013.
34. Bauer, Johannes, M., Internet-based innovation: dynamics of a socio-technical system, London School of Economics, LSE Network Economy Conference, May 13, 2013.
35. 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.
36. Bauer, Johannes M. "Regulation, competition, and innovation", Keynote address, 19<sup>th</sup> Biennial Conference of the International Telecommunications Society, Bangkok, Thailand, November 18-21, 2012.
37. Bauer, Johannes M., Rupp, Matthew, Koning, Kendall, Goodman, Erik D., DeMaagd, Kurt, Chattopadhyay, Tithi, & Friederici, Nicolas, "Promoting innovation in advanced communications: an evolutionary approach", 19<sup>th</sup> Biennial Conference of the International Telecommunications Society, Bangkok, Thailand, November 18-21, 2012.
38. Bauer, Johannes M. and Shim, Woohyun, Effects of regulation on innovation in the information and communication sector," presented at the 40<sup>th</sup> Research Conference on Information, Communications, and Internet Policy, Arlington, VA, September 21-24, 2012.
39. Bauer, Johannes M., "Innovation in the ICT ecosystem," Keynote address, 23<sup>rd</sup> European Regional Conference of the International Telecommunications Society, Vienna, Austria, July 1-4, 2012.
40. Bauer, Johannes M. and Shim, Woohyun, "Regulation and digital innovation," 23<sup>rd</sup> European Regional Conference of the International Telecommunications Society, Vienna, Austria, July 1-4, 2012.
41. Tabatabaie, Shirin, van Eeten, Michel, Bauer, Johannes M. & Asghari, Hadi, "Has the securitization of the cyberspace been effective?" Biennial Conference of the European Consortium for Political Research (ECPR), Standing Group on Regulatory Governance, University of Exeter, June 27-29, 2012.
42. Bauer, Johannes M., "Broadband policy in the United States", KATP-JSICR Joint Symposium, Akita, Japan, June 23-24, 2012.
43. LaRose, Robert, DeMaagd, Kurt, Chew, Han Ei, Tsai, Hsin-yi Sandy, Steinfield, Charles, Wildman, Steven, Bauer, Johannes M., "Broadband adoption in the inner city: revising a classic diffusion paradigm," Annual Conference of the International Communications Association, Phoenix, AZ, May 24-28, 2012.
44. Bauer, Johannes M., and Shim, Woohyun, "Regulation and innovation in telecommunications," Florence School of Regulation Scientific Seminar, European University Institute (EUI), Florence, Italy, May 18-19, 2012.
45. Bauer, Johannes M., Obar, Jonathan, and Koh, Taejin, „Reconciling economic and political goals in the internet ecosystem," presented at the 39<sup>th</sup> Research Conference on Communication, Information, and Internet Policy, Arlington, VA, September 23-25, 2011.
46. DeMaagd, Kurt, Goodman, Erik, Bauer, Johannes M., Koning, Kendall, Chattopadhyay, Tithi, Friederici, Nicolas, "A complex systems model of industry concentration and broadband infrastructure investment," presented at the 39<sup>th</sup> Research Conference on Communication, Information, and Internet Policy, Arlington, VA, September 23-25, 2011.
47. LaRose, Robert, Grubestic, Anthony, Bauer, Johannes M., Ma, Wenjuan, and Tsai, Sandy, „Understanding broadband gaps: predictors of broadband competition and service quality in the United States," presented at the 39<sup>th</sup> Research Conference on Communication, Information, and Internet Policy, Arlington, VA, September 23-25, 2011.
48. Bauer, Johannes M., Obar, Jonathan, and Koh, Taejin, „Disentangling economic and political goals in the network neutrality debate," presented at the European Regional Conference of the International Telecommunication Society (ITS), Budapest, Hungary, September 18-21, 2011.



49. 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.
50. Bauer, Johannes M., DeMaagd, Kurt, Goodman, Erik, Atkins, Sam, Chattopadhyay, Tithi, and Koning, Kendall Convergence, net neutrality, and innovation: improving governance with computational methods, paper presented at the 2011 Asia-Pacific Regional Conference International Telecommunications Society, 26-28 June 2011, Taipei, Taiwan.
51. Bauer, Johannes M. and Chattopadhyay, Tithi, "Policies in support of innovation in advanced communications a co-evolutionary approach," Annual Meeting of the American Economic Association, Denver, CO, January 6-9, 2011.
52. Bauer, Johannes M. "Modeling the Internet and its governance as a complex adaptive system", ESF/COST High-Level Research Conference, Aquafredda di Maratea, Italy, October 2-7, 2010.
53. Bauer, Johannes M., DeMaagd, Kurt, Goodman, Erik, Atkins, Sam, Chattopadhyay, Tithi, and Koning, Kendall, "Using Computer Simulation to Improve ICT Governance", 38<sup>th</sup> Conference on Communications, Information, and Internet Policy, Arlington, VA, October 1-3, 2010.
54. Van Eeten, Michel, Bauer, Johannes M., Asghari, Hadi, Tabatabaie, Shirin, and Rand David, "Botnet mitigation: the role of internet service providers and public policy", 38<sup>th</sup> Conference on Communications, Information, and Internet Policy, Arlington, VA, October 1-3, 2010.
55. Bauer, Johannes M. and Chattopadhyay, Tithi, "Network openness, investment, and diffusion", 18<sup>th</sup> Biennial Conference of the International Telecommunications Society, Tokyo, Japan, June 28-30, 2010.
56. Shim, Woohyun and Bauer, Johannes, "How can organizations improve cybersecurity", 18<sup>th</sup> Biennial Conference of the International Telecommunications Society, Tokyo, Japan, June 28-30, 2010.
57. Bauer, Johannes M. "Metamorphoses of the state", Conference of the International Communications Association (ICA), Singapore, June 22-26, 2010 (Top Three Paper Award).
58. Van Eeten, Michel, Bauer, Johannes M., Asghari, Hadi, Tabatabaie, Shirin, and Rand, David, "The role of ISPs in botnet mitigation: an analysis based on spam data", Workshop on the Economics of Information Security, Harvard University, June 6-8, 2010.
59. Bauer, Johannes M. "Learning from each other: theoretical and empirical foundations of cross-national benchmarking", 25<sup>th</sup> European Communications Research Conference, Brussels, March 28-30, 2010.
60. Bauer, Johannes M. "Harnessing advanced communications for economic development", 1<sup>st</sup> Europe-Middle Eastern-African Conference of the International Telecommunications Society, Kingdom of Bahrain, October 27, 2009.
61. Bauer, Johannes M. and Coursaris, Constantinos K. "Process and product innovation in advanced communications," 1<sup>st</sup> Europe-Middle Eastern-African Conference of the International Telecommunications Society, Kingdom of Bahrain, October 27, 2009.
62. Bauer, Johannes M., "Balancing regulation and public policy to facilitate investment and innovation in advanced communications," 37<sup>th</sup> Research Conference on Communication, Information and Internet Policy, Arlington, VA, September 25-27, 2009.
63. Bauer, Johannes M. and Kim, Sungjoong, "Approaches to overcoming data and analysis problems in international comparisons," Expert Workshop *Beyond Broadband Access*, Washington, DC, September 22-24, 2009.
64. Bauer, Johannes M. and Van Eeten, Michel, „New roles of regulation in enhancing cybersecurity,“ International Telecommunications Society Africa-Asia-Australasia Regional Conference, Perth, August 16-18, 2009
65. Malang, Thomas, Bauer, Johannes M. and Schneider, Volker, „In Zukunft telefonieren: Zur Koevolution von Governancestrukturen und Technikentwicklung in der Internettelefonie,“ Tagung des Arbeitskreises Politik und Technik der Deutschen Vereinigung für Politische Wissenschaft, Berlin, May 22-23, 2009.
66. Wu, Belinda and Bauer, Johannes M., "E-government and citizen participation in developing countries: the case

- of China“, 59<sup>th</sup> Annual Conference of the International Communications Association, Chicago, IL, May 21-25, 2009.
67. Van Eeten, Michel and Bauer, Johannes M., „Securing Cyberspace: Realigning Incentives in the ICT Value Net“, *WebSci'09*, Athens, Greece, March 18-20, 2009.
  68. Bauer, Johannes M. and DeMaagd, Kurt, “Network management practices and sector performance a genetic programming approach,” 36<sup>th</sup> Research Conference on Communications, Information and Internet Policy, Alexandria, VA, September 26-28, 2008.
  69. Ha, Imsook, Wildman, Steven S., and Bauer, Johannes M., “The economics of internet video distribution,” 36<sup>th</sup> Research Conference on Communications, Information and Internet Policy, Alexandria, VA, September 26-28, 2008.
  70. Bauer, Johannes M. and Lee, Sangyup, “Business and policy implications of open wireless,” 19<sup>th</sup> Regional European Conference of the International Telecommunications Society, Rome, Italy, September 16-18, 2008.
  71. Bauer, Johannes M., “Balancing regulation, investment and innovation: EU and U.S. approaches to NGN regulation,” 16<sup>th</sup> Biannual Conference of the International Telecommunications Society, Montreal, June 24-27, 2008.
  72. Bauer, Johannes M. and Kim, Sungjoon, “Coping with heterogeneity in cross-national comparisons of prices for communication services,” 16<sup>th</sup> Biannual Conference of the International Telecommunications Society, Montreal, June 24-27, 2008.
  73. Bauer, Johannes M., Jun Zhang and Tithi Chattopadhyay, “Optimal bundling of communications services,” 16<sup>th</sup> Biannual Conference of the International Telecommunications Society, Montreal, June 24-27, 2008.
  74. 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.
  75. Malang, Thomas, Chattopadhyay, Tithi, Bauer, Johannes M., and Schneider, Volker, “A complex adaptive system perspective on the Internet telephony market,” International Conference on Complexity and Large Technical Systems, Meersburg, Germany, May 30-31, 2008.
  76. 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.
  77. Kwon, Youngsun, Bauer, Johannes M., and Steven S. Wildman, “A framework for determining the optimal mix of spectrum management regimes,” 35<sup>th</sup> Research Conference on Communications, Information and Internet Policy, Alexandria, VA, September 28-30, 2007.
  78. Bauer, Johannes M. and Bohlin, Erik, “Dynamic regulation: conceptual foundations, implementation, effects,” 35<sup>th</sup> Research Conference on Communications, Information and Internet Policy,, Alexandria, VA, September 28-30, 2007.
  79. Bauer, Johannes M., van Eeten, Michel J. G., de Bruijne, Mark, Groenewegen, John, and Lemstra, Wolter, “The economics of malware: security decisions, incentives, and externalities,” 35<sup>th</sup> Research Conference on Communications, Information and Internet Policy, Alexandria, VA, September 28-30, 2007.
  80. Bauer, Johannes M. and Bohlin, Erik, “From static to dynamic regulation: recent developments in U.S. telecommunications policy, 18<sup>th</sup> Regional European Conference of the International Telecommunications Society, Istanbul, Turkey, September 2-5, 2007.
  81. Bauer, Johannes M., Ha, Im Sook, and Saugstrup, Dan, “Mobile television: challenges of advanced service design,” 18<sup>th</sup> Regional European Conference of the International Telecommunications Society, Istanbul, Turkey, September 2-5, 2007.
  82. Bauer, Johannes M., “Prospects and limits of high-tech entrepreneurship in the United States”, Conference on Innovation Policy for High Technology in a Comparative Perspective, Meersburg, Germany, June 22-23, 2007.
  83. Schneider, Volker and Bauer, Johannes M., “Governance: from systems to complexity theory”, International Workshop on Complex Systems, Meersburg, Germany, June 21, 2007.

84. Schneider, Volker and Bauer, Johannes M., "Governance: prospects of complexity theory in rethinking systems theory", 65<sup>th</sup> Annual Conference of the Midwest Political Science Association. Chicago, Illinois, 14 April 2007, 2007.
85. Bauer, Johannes M., Ha, Im Sook, and Saugstrup, Dan, "Mobile television: challenges of advanced service design," LA Global Mobility Roundtable, Los Angeles, CA, June 1-2, 2007.
86. 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.
87. Bauer, Johannes M., "Dynamic effects of network neutrality," 34th Telecommunications Policy Research Conference, Alexandria, VA, September 29-October 1, 2006.
88. Bauer, Johannes M., "Effects of alternative network neutrality policies," 17th European ITS Conference, Amsterdam, August 22-24, 2006.
89. 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.
90. 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.
91. 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.
92. 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.
93. Bauer, Johannes M. and Cherry, Barbara A. "Transatlantic conundrums: lessons for Europe?" EuroCPR, Seville, March 26-28, 2006.
94. 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.
95. Bauer, Johannes M., "Universal service and new technologies", Wireless Communications and Universal Service, Columbia University, New York, December 9, 2005.
96. Bauer, Johannes M., "Convergence strategies in U.S. communications markets," First Transatlantic Telecom Industry Forum, Montpellier, France, November 22, 2005.
97. 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.
98. Bauer, Johannes M., "Internet governance: a network perspective", presented at the 27<sup>th</sup> Annual Conference of the American Public Policy and Management Association (APPAM), Washington, D.C., November 3-5, 2005.
99. Bauer, Johannes M., "Internet governance: theory and first principles," presented at the 33<sup>rd</sup> Research Conference on Communication, Information and Internet Policy, Alexandria, VA, September 23-25, 2005.
100. Bauer, Johannes M., "Unbundling policy in the United States: players, outcomes and effects," presented at the 16<sup>th</sup> Regional European Conference of the International Telecommunications Society, Porto, Portugal, September 4-6, 2005.
101. Bauer, Johannes M., Kim, Sungjoong, Mody, Bella, and Wildman, Steven S., "The role of research in communications policy: theory and evidence," presented at the 55<sup>th</sup> Annual Conference of the International Communications Association, New York, May 26-30, 2005.
102. 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.
103. Bauer, Johannes M., "From mechanical to adaptive regulation", European Communications Policy Research Conference, Potsdam, Germany, March 13-15, 2005.
  104. 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.
  105. Bauer, Johannes M., Lin, Yu-Chieh, Maitland, Carleen F., and Tarnaka, Ankur, "Transition paths to next-generation wireless services," presented at the 32<sup>nd</sup> Research Conference on Communication, Information and Internet Policy, Alexandria, VA, October 1-3, 2004
  106. Ting, Carol, Wildman, Steven S., and Bauer, Johannes M., "Welfare comparison of spectrum property and spectrum commons governance regimes," presented at the 32<sup>nd</sup> Research Conference on Communication, Information and Internet Policy, Alexandria, VA, October 1-3, 2004
  107. Cherry, Barbara A. and Bauer, Johannes M., "Adaptive regulation: contours of a policy model for the Internet economy," presented at the 15<sup>th</sup> Biennial conference of the International Telecommunications Society, Berlin, Germany, September 4-7, 2004.
  108. Ting, Carol, Wildman, Steven, and Bauer, Johannes M., "Modeling the efficiency properties of spectrum management regimes," presented at the 15<sup>th</sup> Biennial conference of the International Telecommunications Society, Berlin, Germany, September 4-7, 2004.
  109. 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 15<sup>th</sup> Biennial conference of the International Telecommunications Society, Berlin, Germany, September 4-7, 2004.
  110. 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.
  111. Häge, Frank, Schneider, Volker, and Bauer, Johannes M., "Political and societal veto players and regulatory reform: the transformation of telecommunications in OECD countries," 62<sup>nd</sup> Midwest Political Science Association Annual Conference, Chicago, Illinois, April 15-18, 2004.
  112. 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.
  113. 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.
  114. 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.
  115. 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.
  116. 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.
  117. Bauer, Johannes M., "Prospects and limits of comparative research in communications policy-making," 31<sup>st</sup> Research Conference on Communication, Information and Internet Policy, Arlington, VA, September 19-21, 2003.
  118. Bauer, Johannes M., Kim, Junghyun, and Wildman, Steven S., "Broadband uptake in OECD countries: policy lessons from comparative statistical analysis," 31<sup>st</sup> Research Conference on Communication, Information and Internet Policy, Arlington, VA, September 19-21, 2003.
  119. 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.
120. Bauer, Johannes M., “Die Privatisierung von Infrastrukturen aus wirtschaftswissenschaftlicher Sicht,” Konstanz, Germany, June 28, 2003.
  121. Bauer, Johannes M., “Spectrum policy and the evolution of the mobile internet,” 53<sup>rd</sup> Conference of the International Communications Association, San Diego, May 26, 2003.
  122. Bauer, Johannes M., “Zur Steuerung komplexer technischer Systeme am Beispiel der Telekommunikation,” Institute for Technology Assessment, Vienna, Austria, January 22, 2003.
  123. Bauer, Johannes M., “A comparative analysis of spectrum management regimes”, 30<sup>th</sup> Research Conference on Communication, Information and Internet Policy, Alexandria, VA, September 28-30, 2002.
  124. Bauer, Johannes M., Gai, Ping, Kim, Junghyun, Muth, Thomas A., and Wildman, Steven S., “Whither broadband policy?” 30<sup>th</sup> Communications and Internet Research Conference, Alexandria, VA, September 28-30, 2002.
  125. Bauer, Johannes M., “Regulated mixed firms: the state in European telecommunications”, 13<sup>th</sup> Regional European Conference of the International Telecommunications Society, Madrid, Spain, September 8-10, 2002.
  126. Bauer, Johannes M., Gai, Ping, Kim, Junghyun, Muth, Thomas A., and Wildman, Steven S., “Foundations of broadband policy”, 13<sup>th</sup> Regional European Conference of the International Telecommunications Society, Madrid, Spain, September 8-10, 2002.
  127. 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.
  128. 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.
  129. Bauer, Johannes M. and Schneider, Volker, „Die Rolle von Interessenverbänden in der amerikanischen Informations- und Kommunikationspolitik“, Meersburg, Germany, June 6-8, 2002.
  130. Bauer, Johannes M. and Trebing, Harry M., “Liberalized infrastructure: regulation and performance”, Delft, The Netherlands, May 30, 2002.
  131. 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.
  132. 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.
  133. Bauer, Johannes M., “Spectrum auctions, prices and network expansion in mobile communications”, 29<sup>th</sup> Telecommunications Policy Research Conference, Alexandria, Virginia, October 27-29, 2001.
  134. 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.
  135. 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.
  136. 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,” 5<sup>th</sup> International Conference on Technology, Policy and Innovation, The Hague, Netherlands, June 26-29, 2001.
  137. Ten Heuvelhof, Ernst, Kuit, Martijn, Stout, Helen D. and Bauer, Johannes M., “Capacity management in infrastructure sectors: the Dutch experience,” 5<sup>th</sup> International Conference on Technology, Policy and Innovation, The Hague, Netherlands, June 26-29, 2001.
  138. Bauer, Johannes M., “The economics of Internet flat rates – comment”, European Communications Policy Research Conference, Venice, Italy, March 26-27, 2001.

139. 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.
140. Bauer, Johannes M., "Universal service policy in the European Union," 50th Annual Conference of the International Communications Association, Acapulco, Mexico, June 1-5, 2000.
141. 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.
142. Bauer, Johannes M., "Normative foundations of telecommunications policy in the European Union," Santiago de Compostela, Spain, April 12, 2000.
143. Bauer, Johannes M., "Policy competition and footloose utilities," 2nd Annual DIOC Symposium, Delft University of Technology, Delft, The Netherlands, December 9, 1999.
144. Bauer, Johannes M., "Competition as a turbulent process: lessons for telecommunications regulation," 27th Telecommunications Policy Research Conference, Alexandria, Virginia, September 25-27, 1999.
145. 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.
146. 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.
147. 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.
148. Bauer, Johannes M., "Universal service in Europe," Annual conference of the American Society for Information Scientists, Pittsburgh, October 27, 1998.
149. Steinfield, Charles, Mahler, Alwin, and Bauer, Johannes M., "Electronic commerce and the local merchant: opportunities for synergies between physical and web presence," 12<sup>th</sup> Biennial Conference of the International Telecommunications Society, Stockholm, Sweden, June 21-24, 1998.
150. Bauer, Johannes M., "Telecom privatization in Europe: has it worked?" Columbia University, New York, June 12, 1998.
151. 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.
152. 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.
153. 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.
154. 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.
155. Bauer, Johannes M., and McCormick, Patricia K. "Diversification and stock market valuation of telephone companies," presented at the 11<sup>th</sup> Biannual Conference of the International Telecommunications Society, Seville, Spain, June 1996.
156. Bauer, Johannes M. and Cimatoribus, Michela, "The evolution of local telephone competition in the United States," presented at the 11<sup>th</sup> Biannual Conference of the International Telecommunications Society, Seville, Spain, June 1996.
157. 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. (January 20, 2025). Market reform: ICT convergence. Presentation at the PURC-World Bank Seminar, University of Florida, Gainesville, January 20, 2024.
2. Bauer, Johannes M. (June 10, 2024). Market reform: ICT convergence. Presentation at the PURC-World Bank Seminar, University of Florida, Gainesville, June 10, 2024.
3. Bauer, Johannes M. (October 23, 2023). Market reform: ICT convergence. Presentation at the PURC-World Bank Seminar, University of Florida, Gainesville, October 23, 2023.
4. Bauer, Johannes M. (September 5, 2023). Digital Inclusion and Broadband Planning. Online Lecture, Carnegie Mellon University.
5. Bauer, Johannes M. (August 31, 2023). What Research and Experience Tell Us About Broadband Policy Interventions. Online Lecture, Carnegie Mellon University.
6. Bauer, Johannes M. (June 12, 2023). Market reform: ICT convergence. Presentation at the PURC-World Bank Seminar, University of Florida, Gainesville.
7. Bauer, Johannes M. (January 5, 2023). The return of the state into the digital economy. Presentation at the CITI/IMMAA online seminar, Columbia University.
8. Bauer, Johannes M. (December 9, 2022). The digital opportunities compass: Metrics to monitor, evaluate and guide state broadband policy. Presentation at the Broadband Leaders Summit, Miami, FL.
9. Bauer, Johannes M. (December 2, 2022). An information-economic perspective on platform governance. Presentation at the Online Symposium New Perspectives on the Digital Economy: Sharing, Platforms & Regulation Weizenbaum Institute, Berlin, Germany.
10. Bauer, Johannes M. (November 21, 2022). Market reform: ICT convergence. Presentation at the PURC-World Bank Seminar, University of Florida, Gainesville.
11. Bauer, J. M. (November 3, 2022) The Role of Ethics in Establishing Guardrails for AI Innovation. [Symposium/Workshop/Forum] Presented handout/power point at The Ethics of Big Data and Artificial Intelligence Conference, MSU Ethics Institute, East Lansing, MI.
12. Bauer, J. M. (October 4, 2022) A Systems Perspective of Digital Inclusion. [Symposium/Workshop/Forum] Presented handout/power point at Detroit Digital Inclusion Research Symposium, Wayne State University, Detroit.
13. Bauer, Johannes M. (October 4, 2022). Escaping the digital equality/digital inequality cycle. Presentation at the Connect 313 Digital Inclusion Week Research Symposium, Wayne State University, Detroit, MI, October 4, 2022.
14. Bauer, J. M. (September 27, 2022). US Leadership in Global Platform Policy. [Academic/Professional Meeting or Conference] Presented paper at Digital Platforms and American Life: A Conference on Technology and Government, American Enterprise Institute, Washington, D.C.
15. Bauer, J. M. (September 17, 2022) Lessons from Past and Current Policy Experiments for Future U.S. Broadband Policy. [Academic/Professional Meeting or Conference] Presented research at 50th Research Conference on Communication, Information, and Internet Policy (TPRC50), American University, Washington, D.C., DC.
16. Bauer, J. M. (September 16, 2022) Project MOON-Light: Leveraging High-Speed Technology to Forge a More Equitable Path for Learning and Innovation in Michigan. [Other Event Type] Presented handout/power point at IPPSR Legislative Staff Briefing, Institute for Public Policy and Social Research, Lansing.
17. Bauer, J. M. (September 13, 2022) Digital Inclusion and Broadband Planning. Presented at Moving Toward Digital Inclusion, Carnegie Mellon University, Pittsburgh, PA.
18. Bauer, J. M. (September 12, 2022) What Research and Experience Tell Us About Broadband Policy

- Interventions. Presented at Moving Toward Digital Inclusion, Carnegie Mellon University, Pittsburgh, PA.
19. Bauer, J. M. (August 18, 2022) Project MOON-Light: Leveraging High-Speed Technology for Learning and Innovation in Michigan. Presented at 2022 Innovate Michigan! Summit, Center for Community and Economic Development, East Lansing.
  20. Bauer, J. M. (August 18, 2022) State Data Collection and Mapping Efforts. [Symposium/Workshop/Forum] Presented research at Internet for All: Michigan Local Coordination Workshop, Michigan Department of Labor and Economic Opportunity & National Telecommunications and Information Administration (NTIA), Detroit, MI.
  21. Bauer, J. M. (June 25, 2022) The emergence of net neutrality rules and their impact on technological development and markets. [Symposium/Workshop/Forum] Presented handout/power point at Shaping the Internet for the Future, Max Planck Institute for Innovation and Competition, Munich, Germany.
  22. Bauer, J. M. (June 22, 2022) How Can Research Play a Role in Improving Broadband Access? [Symposium/Workshop/Forum] Presented other materials at Broadband Access Summit, The Pew Charitable Trust, Cleveland, OH.
  23. Bauer, J. M. (April 27, 2022) Regulation and Innovation in 5G Markets. [Webinar] Presented handout/power point, paper at Innovation in 5G Technology: Leadership, Competition and Policy Issues, European University Institute, Chalmers University, International Telecommunications Society, Telus.
  24. Bauer, Johannes M., Artificial Intelligence: International Impact on Economy and Society. [Webinar] Presented other materials at International Telecommunications Society (ITS). See <https://www.youtube.com/watch?v=oRr5WGHwKZM>, November 19, 2020.
  25. Bauer, Johannes M., Bewersdorff, Charlotte, Edmonds, Joshua, & Fineman, Ben (November 13, 2020) Broadband Policy in Michigan. [Academic/Professional Meeting or Conference] Merit Member Conference 2020 & Broadband Summit. Beyond - Network. Security. Community., Merit Network.
  26. Bauer, Johannes M. (August 13, 2020) Antitrust and Platform Regulation. [Webinar] Organized by TPRC. See <https://www.youtube.com/watch?v=3BIRb7TACDk>.
  27. O Bauer, Johannes M. (May 5, 2020) Online Learning in the Time of COVID-19. [Webinar] Presented handout/power point. See <https://www.youtube.com/watch?v=-W3BJUALb60>.
  28. Bauer, Johannes M., ICT convergence: challenges and opportunities for regulation and public policy, PURC-World Bank Seminar, University of Florida, Gainesville, January 14, 2020.
  29. Bauer, Johannes M., Overcoming the homework gap, presentation at 9<sup>th</sup> Annual Conference of the Schools, Health, and Libraries Broadband Coalition, October 16 – 18, 2019, Crystal City, VA [reporting on work with Keith Hampton, Laleah Fernandez, and Craig T. Robertson].
  30. Bauer, Johannes M., Trends in communication markets, NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 12, 2019.
  31. Bauer, Johannes M., “ICT convergence: challenges and opportunities for regulation and public policy”, PURC-World Bank Seminar, University of Florida, Gainesville, June 17, 2019.
  32. Bauer, Johannes M. “Use of computational tools to support planning and regulation”, São Paolo, Brazil, April 21, 2019.
  33. Bauer, Johannes M., “ICT convergence: challenges and opportunities for regulation and public policy”, PURC-World Bank Seminar, University of Florida, Gainesville, January 21, 2019.
  34. Bauer, Johannes M., “Trends in communication markets”, NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 13, 2018.
  35. Bauer, Johannes M. “The gig economy and income inequality”, IBEI–cetic.br/nic.br/cbi.br Summer School, Barcelona, Spain, July 2, 2018.
  36. Bauer, Johannes M. “The governance of innovation in the future internet”, IBEI, Barcelona, Spain, July 2, 2018.
  37. Bauer, Johannes M., “ICT convergence”, PURC-World Bank Seminar, University of Florida, Gainesville, June



18, 2018.

38. Bauer, Johannes M. "The digital economy", São Paulo, Brazil, April 24, 2018.
39. Bauer, Johannes M., "ICT convergence", PURC-World Bank Seminar, University of Florida, Gainesville, January 22, 2018.
40. Bauer, Johannes M. "Emerging ICT trends", 15<sup>th</sup> World Telecommunication/ICT Indicator Symposium (WTIS-17), Hammamet, Tunisia, 14-16 November 2017.
41. Bauer, Johannes M., "Communications market and regulatory structures", NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 7, 2017.
42. Bauer, Johannes M. "Trends in telephony and media", NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 7, 2017.
43. Bauer, Johannes M., "Regulation and governance in next generation ICT", PURC-World Bank Seminar, University of Florida, Gainesville, June 19, 2017.
44. Bauer, Johannes M., "ICT convergence", PURC-World Bank Seminar, University of Florida, Gainesville, January 16, 2017.
45. Bauer, Johannes M., "Communications market and regulatory structures", NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 15, 2016.
46. Bauer, Johannes M. "Trends in telephony and media", NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 15, 2016.
47. Bauer, Johannes M., "Regulation and governance in next generation ICT", PURC-World Bank Seminar, University of Florida, Gainesville, June 12, 2016.
48. 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.
49. Bauer, Johannes M., "Communications market and regulatory structures", NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 17, 2015.
50. Bauer, Johannes M. "Trends in telephony and media", NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 17, 2015.
51. Bauer, Johannes M., "Regulation and governance in next generation ICT", PURC-World Bank Seminar, University of Florida, Gainesville, June 16, 2015.
52. Bauer, Johannes M., "Regulation and governance in next generation ICT", PURC-World Bank Seminar, University of Florida, Gainesville, January 20, 2015.
53. Bauer, Johannes M., "Designing adaptive regulation", 5th CAIDA-MIT Workshop on the Economics of the Internet, San Diego, CA, December 10-11, 2014.
54. Bauer, Johannes M., "Communications market and regulatory structures", NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 11, 2014.
55. Bauer, Johannes M. "Trends in telephony and media", NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 11, 2014.
56. Bauer, Johannes M., "Regulating in a dynamic industry environment", ACCC/AER Regulatory Conference, Brisbane, Australia, August 8, 2014.
57. Bauer, Johannes M., "Governing the mobile broadband ecosystem", Korea Association for Telecommunications Policy, 20<sup>th</sup> Global Workshop, Honolulu, Hawaii, June 27, 2014.
58. Bauer, Johannes M., "Network neutrality: The evolving debate", MERIT Member Conference, Ypsilanti, MI, May 22, 2014.
59. Bauer, Johannes M., "Regulation and governance in next generation ICT", PURC-World Bank Seminar, University of Florida, Gainesville, January 21, 2014.

60. Bauer, Johannes M., "Market structure and concentration in ICT markets", NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 13, 2013.
61. Bauer, Johannes M. "Trends in media and information industries", NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 13, 2013
62. Bauer, Johannes M., "Regulation and Governance in Next Generation ICT", PURC-World Bank Seminar, University of Florida, Gainesville, June 18, 2013.
63. Bauer, Johannes M., "Regulatory economics in new telecom markets: US and European perspectives", LSE Network Economy Forum, London, March 25, 2013.
64. Bauer, Johannes M., "The Role of Regulation and Governance in Next Generation ICT", PURC-World Bank Seminar, University of Florida, Gainesville, January 22, 2013.
65. 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.
66. Bauer, Johannes M., "Regulation and innovation in telecommunications," ETNO/Total Telecom Summit, Brussels, Belgium, May 30, 2012.
67. Bauer, Johannes M., "Broadband universal service in the United States," CEPS Digital Forum, Brussels, Belgium, October 25, 2011.
68. Bauer, Johannes M., "Panarchy: the future of Internet governance," Global Economic Symposium, Kiel Germany, October 6-7, 2011.
69. 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.
70. Bauer, Johannes M. "Unbundling in the U.S.: changing rationales and experience", National Telecommunications Commission of Thailand, Bangkok, July 30, 2010.
71. Bauer, Johannes M., "The lowest cost frontier methodology", LIRNEasia@five, Colombo, Sri Lanka, December 10, 2009.
72. Bauer, Johannes M., "Harnessing advanced communications for economic development", Distinguished Lecture, Dubai, October 28, 2009.
73. 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.
74. Bauer, Johannes M., "Balancing markets and regulation," NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 10, 2009.
75. Bauer, Johannes M., "Market, competition, and forbearance," NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 10, 2009.
76. Bauer, Johannes M., "Communications and network neutrality," NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 10, 2009.
77. Bauer, Johannes M. "Balancing competition, investment and innovation in advanced telecommunications," National Telecommunications Commission, Bangkok, April 1-3, 2009.
78. Bauer, Johannes M., "Regulation, public policy and investment in communications infrastructure", Williamsburg, VA, December 11, 2008.
79. Bauer, Johannes M., "Principles of interconnection in next-generation networks," IDATE DigiWorld Conference, Montpellier, France, November 18, 2008.
80. 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
81. 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.
  82. Bauer, Johannes M., "Across the Atlantic: deregulation and industrial policy in the United States," Berlin, Germany, September 2, 2008.
  83. 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
  84. Bauer, Johannes M. "NGN Regulation, investment and innovation," Brussels, May 7, 2008.
  85. Bauer, Johannes M. "Balancing markets and regulation," NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 12, 2008.
  86. Bauer, Johannes M., "Market, competition, and forbearance," NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 12, 2008.
  87. Bauer, Johannes M., "Communications and network neutrality," NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 12, 2008.
  88. Bauer, Johannes M., "Regulierung, Investition und Innovation am Beispiel neuer Kommunikationsnetze," Vienna, Austria, February 7, 2008.
  89. Bauer, Johannes M., "Regulierung von NGN," Vienna, Austria, December 2007.
  90. Bauer, Johannes M., "Network neutrality," Third Transatlantic Telecom Forum, Montpellier, France, November 14, 2007.
  91. Bauer, Johannes M., "Balancing markets and regulation," NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 13, 2007
  92. Bauer, Johannes M., "Communications network neutrality," NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 13, 2007
  93. Bauer, Johannes M., "Convergence, franchising, and network neutrality in telecoms," Michigan Forum, East Lansing, January 26, 2007
  94. Bauer, Johannes M., "Communications and information: technological and regulatory convergence issues," NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 15, 2006
  95. Bauer, Johannes M., "Balancing markets and regulation," NARUC Annual Regulatory Studies Program, Michigan State University, East Lansing, August 14, 2006
  96. Bauer, Johannes M., "Telecommunications network economics," NARUC Advanced Regulatory Studies Program, Michigan State University, East Lansing, June 5, 2006
  97. Bauer, Johannes M., "USA-Deregulierung als Innovationsmotor," Arthur D. Little Conference on the Regulation of Next Generation Networks, Berlin, Germany, May 31, 2006
  98. Bauer, Johannes M., "Telecommunication network economics," Workshop for Mariana Islands Regulators, East Lansing, Michigan, November 11, 2005

99. Bauer, Johannes M., "Balancing markets and regulation," 47<sup>th</sup> NARUC Regulatory Studies Program, East Lansing, Michigan, August 12, 2005
100. Bauer, Johannes M., "Comparative regulatory theory and practice," International Regulatory Studies Workshop, Michigan State University, July 30, 2005
101. Bauer, Johannes M., "Advanced telecommunication network economics," NARUC Advanced Regulatory Studies Program, East Lansing, Michigan, April 25, 2005
102. Bauer, Johannes M., "Frameworks for telecommunications reform," 2005 Michigan Forum, January 21, 2005, East Lansing, Michigan
103. Bauer, Johannes M., "Studies of broadband adoption," Workshop Formulating a Research Agenda for Communications Policy, Federal Communications Commission, Washington, D.C., December 10, 2004
104. Bauer, Johannes M., "Unlicensed wireless services," Workshop Policy Responses to VoIP, Unlicensed Wireless, Powerline and other Competitive Telecommunication Technologies, Charleston, SC, December 5, 2004
105. Bauer, Johannes M., "Telecommunications: economics, structure, regulation," 46<sup>th</sup> NARUC Annual Regulatory Studies Program, East Lansing, Michigan, August 2, 2004
106. Bauer, Johannes M., "Comparative regulatory theory and practice," International Regulatory Studies Workshop, Michigan State University, July 31, 2004
107. 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
108. Bauer, Johannes M., "Competition, next generation networks, and cooperative federalism," Michigan Forum 2004, East Lansing, Michigan, February 6, 2004
109. Bauer, Johannes M., "Emerging alternatives to regulation," 45<sup>th</sup> NARUC Annual Regulatory Studies Program, East Lansing, Michigan, August 15, 2003
110. Bauer, Johannes M., "Unbundling public utility functions and services," 45<sup>th</sup> NARUC Annual Regulatory Studies Program, East Lansing, Michigan, August 12, 2003
111. Bauer, Johannes M., "Telecommunications: economics, structure, regulation," 45<sup>th</sup> NARUC Annual Regulatory Studies Program, East Lansing, Michigan, August 4, 2003
112. 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
113. Bauer, Johannes M., "Alternative methods of public utility regulation," 44<sup>th</sup> NARUC Annual Regulatory Studies Program, East Lansing, Michigan, August 9, 2002
114. Bauer, Johannes M., "Public utility regulation, privatization, and globalization," 44<sup>th</sup> NARUC Annual Regulatory Studies Program, East Lansing, Michigan, August 3, 2002.
115. Bauer, Johannes M., "Telecommunications reform in Europe: lessons for the United States?," 30<sup>th</sup> Annual Conference of the Public Utilities Research Center (PURC), University of Florida, Gainesville, Florida, February 21-22, 2002.
116. Bauer, Johannes M., "Concepts of public utility regulation for developing countries", 41<sup>st</sup> NARUC Annual Regulatory Studies Program, East Lansing, Michigan, August 4, 1999.
117. Bauer, Johannes M., "Principles of performance-based regulation," Ontario Energy Board, Toronto, September 22-23, 1998.
118. Bauer, Johannes M., "Electric utility restructuring in the United States," Jerusalem, Israel, December 15, 1997.
119. Bauer, Johannes M., "Market power and competition in the emerging energy industries," Conference of the Canadian Energy Research Institute, Banff, Canada, October 30, 1997.
120. Bauer, Johannes M., "Energy mergers and restructuring", presented at the Mid-American Regulators Conference, Des Moines, Iowa, June 16, 1997.

121. Bauer, Johannes M., "Incentive regulation for natural gas utilities," Conference of the Ente Nacional Regulador del Gas (ENARGAS), Buenos Aires, Argentina, May 17, 1997.
122. Bauer, Johannes M., "Performance-based regulation," CAMPUT, Niagara-on-the-Lake, Canada, April 22, 1997.
123. 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 contact the author for professional presentations prior to 1996.

### **C. Other public talks**

1. Bauer, Johannes M. "Digital Innovation Ecosystems: Aligning Private and Public Interests," online lecture, Chalmers University, Gothenburg, Sweden, November 29, 2021.
2. Bauer, Johannes M. "Innovation and Creativity in the Digital Economy", online public lecture, May 19, 2021, Jakarta, Indonesia, hosted by the University of Indonesia.
3. Bauer, Johannes M. "Governance der Wissensgesellschaft in den USA und der Europäischen Union", Faculty Colloquium Political Science, University of Constance, Germany, June 16, 2010.
4. 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*

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

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 AND OUTREACH

- |           |  |
|-----------|--|
| 2021-     | Lamore, R. (35 %), Verter, N. V. (10 %), Szymusiak, K. P. (5 %), Melcher, J. E. (35 %), Jezierski, L. A. (5 %), Harrison, R. H. (5 %), Bauer, J. M. (5 %), MSU EDA University Center for Regional Economic Innovation (REI), US Economic Development Administration (total funding over five-year period \$960,000). |
| 2024-2025 | Bauer, J. M. (PI), Mack, L., Hampton, K. (Co-PIs), Assessing the Effects of the Infrastructure Investment and Jobs Act on High-Speed Internet Access, Digital Equity, and Community Development, Phases I + II (\$209,895).  |
| 2022-2024 | Bauer, J. M. (Co-PI), Woo, M. (Co-PI), & Merit Network, Inc. Michigan MOON-Light. Supported by the National Telecommunications and Information Administration under the Broadband Infrastructure Program (BIP) (\$10,500,000).   |
| 2022-2025 | Bauer, J. M. (50 %), Hampton, K. (50 %), Rural Digital Inequities and the COVID-19 Pandemic: Educational Attainment, Student Performance, Psychological Wellbeing, and Post-Secondary  |

- Education Aspirations, Merit Network, Inc. Focus: Research; Total funds requested \$120,000; Amount awarded during report period \$120,000; Amount awarded to-date \$120,000. (February 20, 2022 - February 19, 2028), APP# 00593530-016082-00001.
- 2020-2021 Bauer, J. M. (PI), Wildman, S. S. (Co-PI), & Tiago, T. S. (investigator), Modeling and measuring the economic impacts of digital platform innovation. Research gift by Facebook to Michigan State University (\$99,998).
- 2020-2021 PI, “Political and health information seeking”, Knight Foundation. Focus: Research (\$25,000).
- 2019-2020 Co-principal investigator, “Examining ideologically-motivated cyberattacks to better secure cyber critical infrastructure from compromise”. With Thomas Holt (Criminal Justice) and Arun Ross (CSE), U.S. Department of Homeland Security (\$248,000).
- 2019-2020 Co-principal investigator, “Overcoming Michigan’s homework gap: the role of broadband internet connectivity for student success and career outlooks”. Institute for Public Policy and Social Research (IPPSR) (\$22,500).
- 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 U.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).
- 2001-2002 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. PUBLIC SERVICE**

### **A. Service as referee**

#### 1. Journals

Applied Economics Letters  
 Behaviour & Information Technology  
 Bulletin of Economic Research  
 Cities  
 Communications and Convergence Review  
 Competition and Regulation in Network Industries  
 Governance  
 Information, Communication & Society  
 Information Economics and Policy  
 IEEE Communications Magazine  
 International Journal of Media Management  
 International Review of Administrative Sciences  
 International Telecommunications Policy Review  
 Journal of Computer-Mediated Communication  
 Journal of Cybersecurity  
 Journal of Economics and Management Strategy  
 Journal of Information Policy  
 Journal of Information Technology  
 Journal of Institutional Economics  
 Journal of Management Information Systems  
 Journal of Media Economics  
 Journal of Racial and Ethnic Health Disparities  
 Nordicom Review  
 Palgrave Communications  
 Policy and Internet  
 Research Policy  
 Technological Forecasting and Social Change  
 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. Government agencies

Expertenkommission Forschung und Innovation (EFI) [Expert Commission on Research and Innovation] Germany  
International Telecommunications Union (ITU)

## 5. Conferences (multiple times, 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 Conference on Communications, Information and Internet Policy (TPRC)  
Workshop on the Economics of the Internet (WEIS)

### **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)

Member of the Provost Advisory Committee on Reappointment, Promotion and Tenure (2020-present)  
Member Academic Hearing Board (2020-present)  
Member Provost Return to Campus Task Force (2020)  
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

