

# ANDREW L. RUSSELL, PH.D.

## NAME AND CONTACT

### **Andrew L. Russell, Ph.D.**

Dean, College of Arts & Sciences  
SUNY Polytechnic Institute  
100 Seymour Road  
Utica, New York, 13502  
315-792-7317 (office)  
andrew.russell@sunypoly.edu || arussell@arussell.org  
<http://www.arussell.org>

## EMPLOYMENT

- 2016-present    **SUNY Polytechnic Institute**    Utica and Albany, New York  
Professor of History and Dean, College of Arts & Sciences
- 2008-2016    **Stevens Institute of Technology**    Hoboken, New Jersey  
College of Arts & Letters  
2015-2016: Interim Dean  
2014-2016: Associate Professor of History  
2012-2016: Director, Program in Science and Technology Studies  
2008-2014: Assistant Professor of History

## EDUCATION

- 2003-2007    **The Johns Hopkins University**    Baltimore, Maryland  
Ph.D., Program in the History of Science, Medicine, and Technology  
*Fields:* Business and Economic History, History of Communications
- 1999-2003    **University of Colorado at Boulder**    Boulder, Colorado  
M.A. History  
*Fields:* American Political and Diplomatic History,  
Cultural and Intellectual History, Telecommunications Law and Policy
- 1992-1996    **Vassar College**    Poughkeepsie, New York  
B.A. History

## FELLOWSHIPS, GRANTS, AND AWARDS

- 2020    Alfred P. Sloan Foundation for “The Maintainers: Building the Movement for Maintenance Thinking and Action”
- 2018    Alfred P. Sloan Foundation for “The Maintainers: Building and Sustaining Maintenance Communities”
- 2016    Mahoney Prize, SIGCIS (with Valérie Schafer)
- 2010 & 2014    Arthur L. Norberg Travel Grant, Charles Babbage Institute, University of Minnesota
- 2013    Curriculum Development Grant, National Institute for Standards and Technology
- 2011 & 2013    History Fellowship, Association for Computing Machinery
- 2011    Research Grant, IEEE Computer Society History Committee
- 2010    History Fund Grant Award, American Society for Information Science and Technology
- 2009    Finalist, Herman E. Krooss Prize for the Best Dissertation in Business History
- 2008-2009    IEEE Life Members’ Fellowship in Electrical History

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- 2007-2008 Post Doctoral Fellowship, John Hope Franklin Humanities Institute, Duke University  
2006-2007 The Adelle and Erwin Tomash Fellowship in the History of Information Processing,  
Charles Babbage Institute, University of Minnesota  
2006 Commended Paper, International Electrotechnical Commission Centenary Challenge  
2006 First place, World Standards Day Paper Competition  
2006 Business History Conference Newcomen Dissertation Colloquium  
2006 Newcomen Society Travel Grant, Business History Conference  
2005 SHOT Travel Grant, Society for the History of Technology  
2002 Department of Interdisciplinary Telecommunications Graduate Fellowship,  
University of Colorado at Boulder  
2002 ICOHTEC Travel Award, Society for the History of Technology  
2002 Graduate Student Travel Award, Dean's Fund for Excellence, College of Arts and Sciences,  
University of Colorado at Boulder  
2001 Pile and Lefforge Research Grant, Department of History,  
University of Colorado at Boulder

### PUBLICATIONS: BOOKS

*The Innovation Delusion* (Currency, 2020) – co-author with Lee Vinsel

*The Emergence of Internetworking* (ACM Press, Forthcoming 2019) – co-author with James Pelkey

*Ada's Legacy: Cultures of Computing from the Victorian to the Digital Age* (ACM Press, 2015)  
– co-editor with Robin Hammerman

*Open Standards and the Digital Age: History, Ideology, and Networks* (Cambridge University Press,  
Cambridge Series in the Emergence of Global Enterprise, 2014)

Reviewed in *American Historical Review*; *Business History Review*; *IEEE Annals of the History  
of Computing*; *Information & Culture*; *IEEE Micro*; *Isis*; *Les Temps des Medias*; *Afterimage*

### PUBLICATIONS: JOURNAL ARTICLES

“Das Modulare und das Digitale,” *Arch+* 233 (2018), 118-123.

“After Innovation, Turn to Maintenance,” *Technology & Culture* Vol 29, no. 1 (January 2018), pp. 1-  
25 –co-authored with Lee Vinsel

“Financial and Administrative Infrastructure for the Early Internet: Network Maintenance at the  
Defense Information Systems Agency,” *Technology & Culture* 59 (October 2018): 899-924 – co-  
authored with Bradley Fidler.

“Hagiography, Revisionism & Blasphemy in Internet Histories,” *Internet Histories: Digital  
Technology, Culture and Society* 1 (2017): 15-25.

“Modular Design and Standardization: Past, Present, and Future,” *The ITEA Journal of Test and  
Evaluation* 38 (March 2017).

“Standardization, the Humanities, and Design: Strategies for Student Engagement,” *Standards  
Engineering: The Journal of the Standards Engineering Society* 67 (May/June, 2015): 11-13 – co-  
authored with Lee Jared Vinsel.

## ANDREW L. RUSSELL, PH.D.

“Histories of the Internet: Introducing the Special Issue,” *Information & Culture: A Journal of History* 50 (May-June 2015) – co-authored with Thomas Haigh and William H. Dutton.

“In the Shadow of Arpanet and Internet: Louis Pouzin and the Cyclades Network in the 1970s,” *Technology & Culture* 55 (2014): 880-907 – co-authored with Valérie Schafer.

“Using Ethical Reasoning to Amplify the Reach and Resonance of Professional Codes of Conduct in Training Big Data Scientists,” *Science and Engineering Ethics* (November 2014) – co-authored with Rochelle E. Trachtenberg, Gregory J. Morgan, Kevin T. FitzGerald, Jeff Collman, Lee Vinsel, Michael Steinmann, and Lisa M. Dolling.

“The Internet That Wasn’t,” *IEEE Spectrum* 50 (August 2013): 38-43.

Reprinted in Valérie Schafer & Alexandre Serres, *Histories of the Internet and the Web*, Living Books about History, 2017. <https://dx.doi.org/10.13098/infoclio.ch-lb-0006>.

“Modularity: An Interdisciplinary History of an Ordering Concept,” *Information & Culture: A Journal of History* 47 (2012): 257-287.

“Standards, Networks, and Critique,” *IEEE Annals of the History of Computing* 34 (2012): 78-80.

“‘Industrial Legislatures’: Consensus Standardization in the Second and Third Industrial Revolutions,” *Enterprise and Society* 10 (2009): 661-674.

“Standardization Across the Boundaries of the Bell System, 1920-1938,” *History of Technology* 28 (2008): 37-52.

“Dot-Org Entrepreneurship: Weaving a Web of Trust,” *Enterprises et Histoire* 51 (June 2008): 44-56.

“Industrial Legislatures: The American System of Standardization,” *Standards Engineering: The Journal of the Standards Engineering Society* 58 (September/October 2006): 1-10.  
[First Prize, 2006 World Standards Day Paper Competition]

“‘Rough Consensus and Running Code’ and the Internet-OSI Standards War,” *IEEE Annals of the History of Computing* 28 (July-September 2006): 48-61.

“Telecommunications Standards in the Second and Third Industrial Revolutions,” *The Journal of the Communications Network* 5 (January-March 2006): 100-106.

### **PUBLICATIONS: CHAPTERS IN EDITED VOLUMES**

“Make Maintainers: Engineering Education and an Ethics of Care,” in *Does America Need More Innovators?* in Matthew Wisnioski, Eric S. Hintz, and Marie Stettler Kleine, eds. (Cambridge, MA: The MIT Press, 2019).

“Bancroft Gherardi and the Monopoly Bell System: Pioneers in Information Technology Standardization,” in Toni Carbo and Trudi Bellardo Hahn, eds., *International Perspectives on the History of Information Science and Technology* (Medford, New Jersey: American Society for Information Science & Technology, 2012).

“Constructing Legitimacy: the W3C’s Patent Policy,” in Laura DeNardis, ed., *Opening Standards: The Global Politics of Interoperability* (Cambridge: MIT Press, 2011).

## ANDREW L. RUSSELL, PH.D.

“Industrial Legislatures: The American System of Standardization,” in *International Standardization as a Strategic Tool* (Geneva: International Electrotechnical Commission, 2006).  
[Commended Paper, IEC Centenary Challenge]

“Standardization in History: A Review Essay with an Eye to the Future,” in Sherrie Bolin, ed., *The Standards Edge: Future Generations* (Ann Arbor, Michigan: Sheridan Books, 2005).

### **PUBLICATIONS: BOOK REVIEWS**

Review of *All the Facts: A History of Information in the United States Since 1870*, by James W. Cortada, *Reviews in American History* (2017).

Review of *Faxed: The Rise and Fall of the Fax Machine*, by Jonathan Coopersmith, *Economic History Review* 69:2 (2016), 740-742.

Review of *Arguments that Count: Physics, Computing, and Missile Defense, 1949-2012*, by Rebecca Slayton, *Journal of American History* 101:2 (2014), 657-658.

Review of *Instrumental Community: Probe Microscopy and the Path to Nanotechnology*, by Cyrus C. M. Mody, *Enterprise & Society* 15:2 (2014), 403-405.

Review of *The HP Phenomenon: Innovation and Business Transformation*, by Charles House and Raymond Price, *The Business History Review* 85:4 (2011): 813-815.

Review of *Sustainable Prosperity in the New Economy? Business Organization and High-Tech Employment in the United States*, by William Lazonick, *Enterprise & Society* 11:4 (2010): 848-851.

Review of *Two Bits: The Cultural Significance of Free Software*, by Christopher Kelty, *Technology & Culture* 50:4 (2009): 964-966.

### **PUBLICATIONS: ORAL HISTORIES**

Oral History Interviews at the Charles Babbage Institute, University of Minnesota, Minneapolis.

- Andre Danthine, April 6, 2012, Liege, Belgium.
- Gérard Le Lann, April 3, 2012, Paris, France.
- Jean-Louis Grangé, April 3, 2012, Paris, France.
- Michel Gien, April 3, 2012, Paris, France.
- Louis Pouzin, April 2, 2012, Paris, France.
- Najah Naffah, April 2, 2012, Paris, France.
- Marc Levilion, April 2, 2012, Paris, France.
- Tilly Bayard-Richard, April 1, 2012, Paris, France.
- David L. Mills, February 26, 2004, Newark, Delaware.

Oral History Interview with Charles Bachman, April 9, 2011, Boston, Massachusetts. IEEE Computer Society History Committee.

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## PUBLICATIONS: POPULAR AND/OR ONLINE PUBLICATIONS

“The Social Aesthetics of Maintenance” (with Jessica Meyerson and Lee Vinsel), American Sociological Association Culture Section Newsletter, November 2019.

“The Joy of Standards” (with Lee Vinsel), *The New York Times*, February 16, 2019.

“How to Turn Maintenance into a Mindset” (with Lee Vinsel), *Education Week*, January 8, 2019.

“Silicon Valley, From ‘Heart’s Delight’ to Toxic Wasteland,” *The Conversation*, July 11, 2018.

“Let’s Get Excited About Maintenance!” (with Lee Vinsel), *The New York Times*, July 22, 2017.

“Whitey on Mars” (with Lee Vinsel), *Aeon*, February 1, 2017.

“Silicon Folly: The Pitfalls of Innovation Policy” (with Lee Vinsel), *The Saturday Paper (Australia)*, Ed. No. 123, August 27 – September 2, 2016.

“Five Myths About the Web,” *Washington Post*, August 19, 2016.

“Hail the Maintainers” (with Lee Vinsel), *Aeon*, April 7, 2016.

“Nothing Special: Standards, Infrastructure, and Maintenance in the Great Age of American Innovation,” April 28, 2015. Committee on the Anthropology of Science, Technology, and Computing (CASTAC). Available from <http://blog.castac.org/2015/04/nothing-special/>.

“The Open Internet: An Interview with Andrew L. Russell,” May 12, 2015. Digital Culture and Media Initiative, Pennsylvania State University. Available from <http://dcmi.la.psu.edu/andrew-russell-speaker-interview/>.

“Lessons and Cautionary Tales from the History of Standardization,” *IEEE Standards Education e-Magazine*, Vol. 2 No. 4, December 2014. Available from <https://iee-elearning.org/outreach/mod/book/view.php?id=4556&chapterid=536>.

“The Internet’s History Isn’t As ‘Open’ As You Think,” May 21, 2014. Slate.com Future Tense. Available from <http://tinyurl.com/q9vfxa7>.

“The Betrayal of the Internet Imaginaire,” September 12, 2013. American Science – A Team Blog. Available from <http://americanscience.blogspot.com/>.

“Five Perspectives on Interviewing: A Roundtable Discussion” (with Matthias Bärwolff, Andreu Veà, David Walden, and Jeffrey Yost), April 11, 2011. IEEE Computer Society History Committee. Available from <http://www.computer.org/portal/web/volunteercenter/history>.

“March Away From Google: An Experiment in Choice.” Available from <http://marchawayfromgoogle.wordpress.com>.

## SELECTED MEDIA COVERAGE

CNN.com, History News Network (hnn.us), *Motherboard*, *Scientific American*, *Tech Republic*, the *Baltimore Sun*, NBC, Fox News, Salon.com, *Wired*, CBC Radio, Freakonomics, *The Guardian*, *Le Monde*, *American Conservative*, *The Atlantic*.

# ANDREW L. RUSSELL, PH.D.

## TEACHING EXPERIENCE

### **Stevens Institute of Technology – Undergraduate Teaching**

United States History to 1865 (Fall 2009, 2010, 2011, 2012, 2013, 2014, 2015)  
United States History since 1865 (Spring 2010, 2011, 2012, 2013, 2014, 2015)  
Introduction to Science & Technology Studies (Fall 2013)  
Science and Technology in World History (Fall 2008 and Spring 2009)  
Computers & Society (Fall 2009, Fall 2010, Fall 2011)  
Studies in the History of Technology (Spring 2010)  
Technology & Society in America (Spring 2009 and Spring 2011)  
Industrial America (Spring 2012)  
Research and Innovation Policy (Spring 2013, 2014, 2015)  
Standardization and Society (Fall 2014)

### **Stevens Institute of Technology – Graduate Teaching**

Research and Innovation Policy (Spring 2013, Spring 2014, Fall 2014)  
History of Modern Science & Technology (Spring 2015)  
MA Thesis (Spring 2015)

### **Teaching Assistant, The Johns Hopkins University**

The Rise of Modern Science (Spring 2006)  
The City: A Multidisciplinary Perspective (Fall 2005)  
Science and Utopia (Spring 2005)  
The Natural and the Artificial (Fall 2004)

### **Instructor, University of Colorado at Boulder**

Images of Culture: Technology, Media, and American Memory (Summer 2003)  
The Meaning of Information Technology (Fall 2002 and Spring 2003)

### **Teaching Assistant, University of Colorado at Boulder**

Economic and Policy Aspects of Telecommunications (Fall 2002)  
The Future of Technology, Arts, and Media (Spring 2002)  
United States History until 1865 (Fall 2001)  
United States, 1865-present (Fall 1999)

## SELECTED WORK EXPERIENCE IN HIGHER EDUCATION

### **The Johns Hopkins University**

2004-2007      Webmaster, Program in the History of Science, Medicine, and Technology  
2005            Multimedia Specialist, Center for Educational Resources

### **University of Colorado at Boulder**

2000-2003      Program Assistant, Silicon Flatirons Telecommunications Program  
1999-2002      Assistant Technology Coordinator, Arts and Humanities  
2000            Faculty Tutor, Faculty Teaching Excellence Program

### **Harvard University, John F. Kennedy School of Government**

1997-1999      Staff Assistant, Harvard Information Infrastructure Project and  
Faculty Assistant for Professors Lewis Branscomb and Harvey Brooks

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## PROFESSIONAL SERVICE

### Stevens Institute of Technology

2016	Steering Committee, NSF ADVANCE Grant at Stevens
2015-2016	Academic Planning and Resources Committee
2015	Search Committee for Dean, College of Arts & Letters
2012-2016	Curriculum Committee, College of Arts & Letters
2011-2016	Student-Faculty Alliance
2008-2016	Various Faculty Search Committees, College of Arts & Letters
2008-2016	Advisor and Reader for Senior Thesis projects, College of Arts & Letters
2013-2015	Institute Curriculum Committee
2013-2015	Undergraduate Studies Committee
2010-2014	Academic Appeals Committee
2011-2012	Graduate Curriculum Committee
2008-2010	Curriculum Committee, College of Arts & Letters

### Editorial Boards

2016-present	Editorial Board Member, <i>Internet Histories: Digital Technology, Culture &amp; Society</i>
2015-present	Contributing Editor, <i>Technology &amp; Culture</i>
2015-present	Editorial Review Board, International Journal of Standardization Research
2014-present	Editorial Board Member, <i>Information &amp; Culture: A Journal of History</i>
2011-2016	Reviews Editor, <i>IEEE Annals of the History of Computing</i>
2010-present	Editorial Board Member, <i>IEEE Annals of the History of Computing</i>
2010-2011	Associate Editor, <i>IEEE Annals of the History of Computing</i>

### Other Professional Service

2016-present	Member, Nominations Committee, Society for the History of Technology
2014-present	Chair, Special Interest Group on Computers, Information, and Society (SIGCIS)
2013-present	Member, American National Standards Institute Committee on Education
2012-present	Member, Executive Board, Special Interest Group on Computers, Information, and Society (SIGCIS)
2012-present	Corresponding Member, IEEE History Committee
2010-present	Member, IEEE Computer Society History Committee
2012	Member, Leonardo da Vinci Prize Committee, Society for the History of Technology
2009-2012	Joan Cahalin Robinson Prize Committee, Society for the History of Technology (Committee Chair, 2012)
2005	Graduate Student Representative, Faculty Advisory Board for Teaching Assistant Training, The Johns Hopkins University
2003-2005	Member, Graduate Representative Organization, The Johns Hopkins University

Peer reviewer for the National Science Foundation, Netherlands Organisation for Scientific Research, The MIT Press, *Business and Politics*, *Enterprise and Society*, *Technology and Culture*, *Business History Review*, *Engineering Studies*, *Information and Culture*, and *IEEE Annals for the History of Computing*.

## PROFESSIONAL MEMBERSHIPS

American Historical Association  
Business History Conference  
Organization of American Historians  
Society for the History of Technology

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## ACADEMIC PRESENTATIONS: INVITED LECTURES

“The Maintenance Mindset,” After Design: Monitoring and Managing the Texas Landscape, Texas Tech University Department of Landscape Architecture, Lubbock, Texas, April 5, 2019.

“Digital Maintenance,” APIdays, Paris, France, December 11, 2018.

“After Innovation,” Department of Science & Technology Studies, Rensselaer Polytechnic Institute, Troy, New York, November 14, 2018

Panel Commentary, “Digital History and History of Technology: A Critical Dialogue,” Society for the History of Technology, October 12, 2018.

“The Innovation Delusion,” Decay, Maintenance, and Repair Symposium, Georgia Tech School of Architecture, Atlanta, Georgia, April 13, 2018.

“Innovation vs. Maintenance in the Drive Toward ‘Hybrid’ Infrastructure,” Russell Senate Office Building, Washington, DC, November 9, 2017.

“The Maintainers: From Joke to Movement,” Department of Science & Technology Studies, Rensselaer Polytechnic Institute, Troy, New York, November 29, 2017

“Hail the Maintainers: What Happens After Innovation” (with Lee Vinsel), Mainstream Conference, Nashville, Tennessee, May 23, 2017.

“Maintainers and Disruptors: Is Our Age Any Different?” (with Lee Vinsel), Johns Hopkins School of Medicine, Division of Health Science Informatics Grand Rounds, Baltimore, Maryland, May 12, 2017.

“Stories About Maintenance: Recasting the Histories of Technology, Business, Labor, and Organizations,” (with Lee Vinsel), University of Pennsylvania Wharton School of Business, Philadelphia, Pennsylvania, April 12, 2017.

“Standards and Modularity: A Scalable, Multi-Use History,” Lunchtime Keynote Address, Annual SERC Sponsor Review, Washington, DC, November 17, 2016.

“Maintaining the Internet: Information Labor and the Dangers of Net Neutrality,” Humanities Forum, Stevens Institute of Technology, March 2, 2016.

“Open Standards and the Digital Age,” IEEE Standards Association Board of Governors, New Brunswick, New Jersey, December 7, 2015.

“The Open Internet: An Exploration in Network Archaeology,” Center for Digital Culture and Media, Pennsylvania State University, January 29, 2015.

“Design for Standardization” (with Lee Vinsel), National Institute of Standards and Technology, Gaithersburg, Maryland, November 14, 2014.

“The Triumph of the Internet and the Failures of Democratic Systems,” Center for Science Writing, Stevens Institute of Technology, October 22, 2014.

Conference on *Open Standards and the Digital Age*, New York University Law School, September 15, 2014.



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Panel Commentary, “Epistemologies of Information Management,” Annual Meeting of the Society for the History of Technology, Portland, Maine, October 12, 2013.

“A Non-Linear History of Computer Networks,” Humanities Forum, Stevens Institute of Technology, October 10, 2012.

“Histories of Computer Networking: Autocracy, Democracy, and Critique,” Institute of Communication Sciences of the National Center for Scientific Research (CNRS-ISCC), Paris, France, April 3, 2012.

Plenary Speaker, “Community and Culture in the History of Computing,” Workshop for the Special Interest Group for Computers, Information, and Society (SIGCIS), Cleveland, Ohio, November 6, 2011.

Panel Commentary, “Regulation and Knowledge: Better Knowing Through Science,” Business History Conference, St. Louis, Missouri, April 1, 2011.

Panel Commentary, “Computers as Scientific Instruments: Technologies, Scientific Practices, and Social Structures,” History of Science Society, Montreal, November 7, 2010.

Commentary on Sarah Bridger, “Scientists and the Ethics of Atomic Weapons Research in the Vietnam War Era,” New York University Center for the United States and the Cold War, November 12, 2009.

“The Bell System and the Significance of the Mundane,” Workshop on Instruments in Manufacturing, Rice University, June 16-17, 2009.

“‘Industrial Legislatures’: Consensus Standardization in the Second and Third Industrial Revolutions,” Krooss Prize Plenary Session, Business History Conference, Milan, Italy, June 12, 2009.

“Are Modular Systems Postmodern?” Humanities Forum, Stevens Institute of Technology, April 29, 2009.

“The Elsewhere Museum as a Modular System,” Recycle: Cultural Appropriation of Everyday Objects, John Hope Franklin Humanities Institute, Duke University, April 16, 2008.

“The Evolution of Communication Networks: Technologies, Organizations, and Standards,” Humanities Forum, Stevens Institute of Technology, March 12, 2008.

“Modularity: The Modern Architecture of Postmodern Technologies,” John Hope Franklin Humanities Institute, Duke University, March 4, 2008.

“Under the Hood: Standards and Standard-Setting,” The Internet in a Changing World, Department of International Affairs, Georgetown University, September 13, 2006.

“The Politics of Standards: Ideology and Innovation in Cellular Networks,” Colloquium in the History of Science, Medicine, and Technology, The Johns Hopkins University, Baltimore, Maryland, March 31, 2005.

“Authority, Legitimacy, and Effectiveness in Internet Standards,” Department of Interdisciplinary Telecommunications, University of Colorado at Boulder, May 2, 2003.

“Rough Consensus and Running Code: Lessons from Cultural and Historical Research,” Telecommunications Research Group, University of Colorado at Boulder, October 18, 2002.

## ANDREW L. RUSSELL, PH.D.

### ACADEMIC PRESENTATIONS: CONFERENCE PRESENTATIONS

“Operations and Maintenance in the Bell System, 1917-1939,” Society for the History of Technology, St. Louis, Missouri, October 13, 2018.

“Maintaining Capitalism: Labor History Meets the History of Technology, Again,” (with Lee Vinsel) Histories of Capitalism 2.0, Cornell University, Ithaca, New York, September 30, 2016.

“Maintaining the Internet,” The Maintainers, Stevens Institute of Technology, April 7, 2016.

“The Entrepreneurs Take Command: Commercial Foundations of Computer Networking, 1968-1988,” Business History Conference, Portland, Oregon, April 2, 2016.

“Modular Design: Project Tinkertoy and the Building Materials of the Information Age,” Society for the History of Technology, Albuquerque, New Mexico, October 10, 2015.

“The Ideological Origins of Open Standards: Industrial Legislatures and Digital Networks,” Law and Society Association, Seattle, Washington, May 29, 2015.

“Standardization, Diversity, and the Digital Age,” American Historical Association, New York, New York, January 3, 2015.

“The ARPANET, the Internet, and the Defense Communication Agency” (with Bradley Fidler), Society for the History of Technology, Dearborn, Michigan, November 8, 2014.

“Standardization, the Humanities, and Design: Strategies for Student Engagement,” International Cooperation for Education about Standardization, Ottawa, Canada, August 14, 2014.

“Accreditation and the Boundaries of Computer Science, 1984-1999,” Business History Conference, Frankfurt, Germany, March 15, 2014.

“Open Systems and the Critique of the Closed World,” New Technologies and Cultures of Communication in the 19<sup>th</sup> and 20<sup>th</sup> Centuries, German Historical Institute, Washington, DC, May 11, 2013.

“The Dynamic Interplay Between Standards and Routines: AT&T in the 1920s and Auto Emissions in the 1970s” (with Lee Vinsel), Getting it Organized: Routines in Business History, Wharton School, University of Pennsylvania, April 20, 2013.

“The Dynamic Interplay Between Standards and Routines: Lessons from Government and Industry” (with Lee Vinsel), Getting it Organized: Routines in Business History, Wharton School, University of Pennsylvania, November 10, 2012.

“Bancroft Gherardi and the Monopoly Bell System: Pioneers in Information Technology Standardization,” History of ASIS&T and Information Science and Technology Worldwide, Baltimore, Maryland, October 27, 2012.

“Histories of Networking and the History of the Internet,” Workshop for the Special Interest Group for Computers, Information, and Society (SIGCIS), Copenhagen, Denmark, October 7, 2012.

“Graybeards versus Sock-Puppets: Mistrust and Consensus in a Community of Internet Engineers,” Organization of American Historians, Milwaukee, Wisconsin, April 20, 2012.

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“An Interdisciplinary History of Open Systems,” Annual Meeting of the Society for the History of Technology, Cleveland, Ohio, November 5, 2011.

“Trust, Mistrust, and the Internet’s Constitution,” American Studies Association, San Antonio, Texas, November 19, 2010.

“Notes on ‘Computers & Society’ at Stevens Tech,” Workshop for the Special Interest Group for Computers, Information, and Society (SIGCIS), Tacoma, Washington, October 3, 2010.

“Modularity Reformed: From Building Blocks to Business Schools,” Annual Meeting of the Society for the History of Technology, Pittsburgh, Pennsylvania, October 18, 2009.

“Standardization Across the Boundaries of the Bell System, 1920-1938,” Annual Meeting of the Society for the History of Technology, Washington, DC, October 20, 2007.

“Dot-org Entrepreneurship: Sir Tim Berners-Lee and the World Wide Web Consortium,” Business History Conference, Cleveland, Ohio, June 1, 2007.

“P.G. Agnew and the Consensus Principle for American Industrial Standards,” Business History Conference, Toronto, June 9, 2006.

“Telecommunications Standards in the Second and Third Industrial Revolutions,” Cross-connexions: Communications, Society, and Change, London, November 12, 2005.

“‘Market incentives may already be sufficient’: Coordination Mechanisms for Cellular Standards,” Annual Meeting of the Society for the History of Technology, Minneapolis, Minnesota, November 4, 2005.

“Technology and Hierarchy in Europe and the United States: Standardization in Digital Mobile Networks,” The Fifth Annual Harvard Graduate Student Conference on International History, Cambridge, Massachusetts, March 18, 2005.

“The W3C and its Patent Policy Controversy: A Case Study of Authority and Legitimacy in Internet Governance,” TPRC 2003: 31<sup>st</sup> Conference on Communication, Information, and Internet Policy, Alexandria, Virginia, September 20, 2003.

“Medium and Message: Balancing Hands-on Technology and Academic Inquiry in the Classroom” (with Diane Sieber, Andrew Cowell, Mark Winokur, and Mark Werner), University of Colorado Teaching with Technology Conference, Denver, Colorado, August 13, 2003.

“The ARPANET as an Artifact of Cold War Consensus: 1957-1969,” Society for the History of American Foreign Relations, Washington, DC, June 7, 2003.

“Ethical and Political Dimensions of the World Wide Web Consortium” Science and Technology Studies Workshop on Technology and Ethics, Virginia Tech, March 28, 2003.

“From ‘Kitchen Cabinet’ to ‘Constitutional Crisis’: the Politics of Internet Standards, 1973-1992,” International Committee on the History of Technology (ICOHTEC), Granada, Spain, June 27, 2002.

“J. C. R. Licklider and the ‘Consensus’ Roots of the Internet, 1957-1965,” Rocky Mountain Interdisciplinary History Conference, January 25, 2002.

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“Ideological and Policy Origins of the Internet, 1957-1969,” TPRC 2001: 29<sup>th</sup> Conference on Communication, Information, and Internet Policy, Alexandria, Virginia, October 28, 2001.

“Is the Internet Different? Some Reflections on History and the Governance of Technology,” Rocky Mountain Interdisciplinary History Conference, Boulder, Colorado, September 23, 2000.

### CONFERENCES ORGANIZED

Conference Co-organizer, “Exception Error: Fatal, Illegal, Unknown,” SIGCIS Annual Conference, Milan, Italy, October 27, 2019.

Conference Co-organizer, “Maintainers III: Practice, Policy & Care,” Gallaudet University, Washington, DC, October 6-9, 2019.

Conference Co-organizer, “Stored in Memory: 10<sup>th</sup> Annual SIGCIS Conference,” St. Louis, Missouri, October 14, 2018.

Conference Co-organizer, “Command Lines: Software, Power, and Performance” Computer History Museum, Mountain View, California, March 18-19, 2017.

Conference Co-organizer, “The Maintainers II: Labor, Technology & Social Orders,” Stevens Institute of Technology, April 6-9, 2017.

Conference Co-organizer, “The Maintainers,” Stevens Institute of Technology, April 7-9, 2016.

Workshop Chair, “Infrastructures: SIGCIS 2015 Workshop,” Albuquerque, New Mexico, October 11, 2015.

Workshop Chair, “Computing the Big Picture: Situating Information Technology in Broader Historical Perspectives,” Dearborn, Michigan, November 9, 2014.

Workshop Chair, “Information Identities: Historical Perspectives on Technological and Social Change,” Copenhagen, Denmark, October 7, 2012.

Conference Co-organizer and Webmaster, Rocky Mountain Interdisciplinary History Conference, Boulder, Colorado, 2000, 2001, and 2002.

### CONFERENCE PANELS ORGANIZED AND/OR CHAIRED

Panel Chair, “Data Standardization: Portability and Interoperability in an Interconnected World?” Data Law in a Global Economy, Guarini Institute for Global Legal Studies, NYU Law School, November 9, 2018.

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Panel Chair, “Computers and Futures: Expectations of a Future with Computers in Eight Countries, 1945-75 II,” Society for the History of Technology, Philadelphia, Pennsylvania, October 28, 2017.

Panel Chair, “Computers and Futures: Expectations of a Future with Computers in Eight Countries 1945-75,” Society for the History of Technology, Philadelphia, Pennsylvania, October 27, 2017.

Panel Chair, “Grassroots Motorsports,” Society for the History of Technology, Philadelphia, Pennsylvania, October 27, 2017.

Panel Organizer, “Ordering Concepts of Information Technologies,” Society for the History of Technology, Albuquerque, New Mexico, October 10, 2015.

Panel Organizer, “Computer Networks in Africa and Latin America,” Society for the History of Technology, Albuquerque, New Mexico, October 10, 2015.

Panel Organizer, “Computer Users, Experts, and Citizens,” Society for the History of Technology, Albuquerque, New Mexico, October 10, 2015.

Panel Organizer, “The History of Engineering and the Engineering of History,” American Historical Association, New York, New York, January 3, 2015.

Panel Organizer, “Stories about Computers and Networks,” Society for the History of Technology, Dearborn, Michigan, November 8, 2014.

Panel Organizer, “Beyond the Machine: Applications of Information Technologies,” Society for the History of Technology, Dearborn, Michigan, November 8, 2014.

Panel Chair, “Steampunk Literature,” Ada Lovelace: An Interdisciplinary Conference Celebrating Her Achievements and Legacy, Stevens Institute of Technology, October 18, 2013.

Co-Organizer (with Society of Women Engineers) and Chair, “The Journey of Women in the Fields of Science & Technology,” Stevens Institute of Technology, April 22, 2013.

Co-Organizer (with Lee Vinsel) and Chair, “Learning from Sandy: Science, Politics, and Social Justice,” Stevens Institute of Technology, April 3, 2013.

Panel Organizer, “‘Terms of Service’: Limitations on Individual Choice in a Networked World,” Stevens Institute of Technology, January 30, 2013.

Co-Organizer (with Lee Vinsel) and Chair, “Hurricane Sandy in Perspective: Reflections from Science and Technology Studies,” Stevens Institute of Technology, November 28, 2012.

Panel Organizer, “Computers, Information, and Society in the Classroom,” Workshop for the Special Interest Group for Computers, Information, and Society, Tacoma, Washington, October 3, 2010.

## ANDREW L. RUSSELL, PH.D.

Panel Chair, “The Computings of Science,” Mike Mahoney and the Histories of Computing(s), Pittsburgh, Pennsylvania, October 18, 2009.

Co-organizer (with Hyungsub Choi), “Technological History of the ‘Third Industrial Revolution,’” Society for the History of Technology, Pittsburgh, Pennsylvania, October 17, 2009.

Panel Chair, “Advanced Technologies and Their Impact,” Science, Technology, and the Humanities: A New Synthesis, Stevens Institute of Technology, April 25, 2009.

Panel Organizer, “Standardizing Technology: Lessons Learned,” Society for the History of Technology, Lisbon, Portugal, October 2008.

Panel Organizer, “Setting Standards for Communication Technologies,” Society for the History of Technology, Washington, DC, October 2007.

Panel Organizer, “Standardization as Entrepreneurship,” Business History Conference, Cleveland, Ohio, June 2007.

Panel Organizer, “Setting American and International Standards, 1900-1950,” Business History Conference, Toronto, Canada, June 2006.

### CONFERENCE PROGRAM COMMITTEES

ITU Kaleidoscope, Santa Fé de la Vera Cruz, Argentina, November 26-28, 2018.

fPET 2018, Forum on Philosophy, Engineering & Technology, College Park, Maryland, May 20-June 1, 2018.

IEEE-SIIT 2017, The 10th International Conference on Standardization and Innovation in Information Technology, Beijing, China, October 25-27, 2017.

ITU Kaleidoscope, Barcelona, Spain, December 9-11, 2015.

IEEE-SIIT 2015, The 9<sup>th</sup> International Conference on Standardization and Innovation in Information Technologies, Sunnyvale, California, October 6-8, 2015.

Time(s) and Temporalities of the Web, Paris, France, December 1-3, 2015.