

ANDREW L. RUSSELL, PH.D.

College of Arts & Letters
Stevens Institute of Technology
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CURRENT POSITION

2008-present **Stevens Institute of Technology** Hoboken, New Jersey
Assistant Professor, Program in History, College of Arts & Letters
Teaching Expertise: United States History, History of Science and Technology,
Business and Economic History, History of Computing and Communications

EDUCATION

2003-2007 **The Johns Hopkins University** Baltimore, Maryland
Ph.D., Program in the History of Science, Medicine, and Technology
Dissertation: “‘Industrial Legislatures’: Consensus Standardization in the
Second and Third Industrial Revolutions”

1999-2003 **University of Colorado at Boulder** Boulder, Colorado
M.A. History
Fields of Specialization: Intellectual History, American Political History,
Telecommunications Law and Policy

1992-1996 **Vassar College** Poughkeepsie, New York
B.A. History

FELLOWSHIPS AND AWARDS

2009 Finalist, Herman E. Krooss Prize for the Best Dissertation in Business History
2008-2009 IEEE Life Members’ Fellowship in Electrical History
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 Graduate Research Grant, Department of History,
University of Colorado at Boulder
1992-1996 Vassar Scholarship, Vassar College

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PUBLICATIONS

Review of Christopher Kelty, *Two Bits: The Cultural Significance of Free Software* [forthcoming in *Technology & Culture*, 2009].

“‘Industrial Legislatures’: Consensus Standardization in the Second and Third Industrial Revolutions,” *Enterprise and Society* (2009). [**Invited dissertation summary**]

“Standardization Across the Boundaries of the Bell System, 1920-1938,” *History of Technology* Volume 28, 2008.

“Tim Berners-Lee and the Weaving of a Web of Trust,” *Enterprises et Histoire* No. 51, June, 2008.

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

“Industrial Legislatures: The American System of Standardization,” *Standards Engineering: The Journal of the Standards Engineering Society* Volume 58, Number 5, 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* Volume 28, Issue 3, July-September 2006, 48-61.

“Telecommunications Standards in the Second and Third Industrial Revolutions,” *The Journal of the Communications Network* Volume 5, Part 1, January-March 2006, 100-106.

“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), 247-260.

WORKS IN PROGRESS

An Open World: The History and Ideology of Network Standards [book manuscript in preparation]

The Architecture of Modernity: Modularity, Technology, and Ordering in the Twentieth Century [book project in research phase]

The Evolution of Information and Communication Technology Standardization: Lessons Learned (with Andreas Fickers and Kai Jakobs)

“Consensus, Dissensus, and the Internet Engineering Task Force” (with Natalie Nelson Marsh)

“History of Computer Communications, 1968-1988” (with James Pelkey)

“An Alternative History of Networking, 1970-2000” (with John Day)

“Selling the Kool Aid: Scient Corp, Open Source History, and the Rise and Fall of Internet Consulting” (with David Kirsch)

“Colonoscopy: On the Use and Abuse of a Punctuation Mark in Academic Paper Titles” (with Nick Smith)

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TEACHING EXPERIENCE

Assistant Professor, Stevens Institute of Technology

Computers & Society (Fall 2009)
United States History until 1865 (Fall 2009)
Science and Technology in World History (Fall 2008 and Spring 2009)
Technology & Society in America (Spring 2009)

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)

ADDITIONAL SYLLABI PREPARED TO TEACH

American Power in the Twentieth Century
Technology, Innovation, and American Capitalism
The Political Economy of Networks
Authority and the Internet

CONFERENCES AND PANELS ORGANIZED

Panel Co-organizer (with Hyungsub Choi), “Technological History of the ‘Third Industrial Revolution,’” Society for the History of Technology, Pittsburgh, Pennsylvania, October 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 Co-organizer and Webmaster, Rocky Mountain Interdisciplinary History Conference, Boulder, Colorado, 2000, 2001, and 2002.

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ACADEMIC PRESENTATIONS

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

“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.

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

“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.

“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.

“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.

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ACADEMIC PRESENTATIONS (CONTINUED)

“The W3C and its Patent Policy Controversy: A Case Study of Authority and Legitimacy in Internet Governance,” TPRC 2003: 31st 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.

“Authority, Legitimacy, and Effectiveness in Internet Standards,” invited class lecture for “Telecommunications Standards: Current Issues,” Department of Interdisciplinary Telecommunications, University of Colorado at Boulder, May 2, 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.

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

“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.

“Ideological and Policy Origins of the Internet, 1957-1969,” TPRC 2001: 29th 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.

PROFESSIONAL MEMBERSHIPS

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

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SELECTED WORK EXPERIENCE IN HIGHER EDUCATION

The Johns Hopkins University

2004-2007 Webmaster, Program in the History of Science, Medicine, and Technology
2004-2007 Webmaster, Joint Atlantic Seminar on the History of Medicine
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
2000-2001 WebCT Support Staff, Information Technology Services
2000 Faculty Tutor, Faculty Teaching Excellence Program

Harvard University, John F. Kennedy School of Government

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

SERVICE

2009-2011 Joan Cahalin Robinson Prize Committee, Society for the History of Technology
2008-present Various Committees, Stevens Institute of Technology
2007-2008 Advisor, University Scholars Program, Duke University
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
2003-present Assistant Coach, Boys Soccer, Clinton High School, Clinton, New York
2003-present Advisor, Grassroot Soccer and Grassroot Soccer United

Ad hoc peer reviewer for the Netherlands Organisation for Scientific Research, *Enterprise and Society*, and *Technology and Culture*

SOFTWARE

Proficient

Dreamweaver
Photoshop
HTML

Experienced

Final Cut Pro
Flash