

**CURRICULUM VITAE**  
Jonathan C. Coopersmith

Department of History  
Texas A&M University  
College Station, Texas 77843  
(979) 845-7151  
(979) 862-4314 fax  
j-coopersmith@tamu.edu  
people.tamu.edu/~j-coopersmith  
<http://historynewsnetwork.org/blog/author/42>

**Degrees Received**

D.Phil            Modern History, Oxford University, 1985  
  
A.B.              Program in the History and Philosophy of Science, Princeton University, 1978

**Academic Positions**

Associate Professor, History, Texas A&M University, 1995-  
Assistant Professor, History, Texas A&M University, 1988-95  
Fulbright Visiting Lecturer/Researcher, Tokyo Institute of Technology, 2008-09  
Visiting Assistant Professor, Virginia Polytechnic Institute and State University, 1987

**Teaching Fields**

History of Technology, History of Space Exploration, Modern European History, Russian/Soviet History

**Recent Course Program**

		<b>Enrollment</b>
Spring 2015	History 280 The Historian's Craft	14
	History 666 History of Technology	12
Fall 2014	History 481 Seminar in History	11
	History 360 History of Energy in America	40
Spring 2014	History 336 Europe Since 1932	32
	History 280 The Historian's Craft	16
Fall 2013	History 481 Seminar in History	16
	History 361 Technology and Engineering in Western Civilization	27

**Graduate Committee Chair**

PhD	1	In Progress
	3	Completed

**Graduate Committee Member**

PhD	2	In Progress
	9	Completed

## **Graduate Student Placement**

### **Chair**

Dave Snyder, Associate Professor of History, Delaware Valley University, Doylestown, PA  
Mark Janzen, Associate Professor of History and Director, Museum Studies Program,  
University of Central Oklahoma, Edmond, OK

External examiner, McGill University, Montreal, Canada, Ph.D. 2001.

## **Undergraduate Research**

International Studies senior thesis 1  
Academy for Future International Leaders Research Advisor, 2001

E-mail "distance learning" session on Modern Communication Technologies participant, British  
Open University, April 1996.

## **CURRENT HISTORICAL RESEARCH**

Failure and Technology  
Evolution of Emerging Technologies  
Technology Maturity Assessment  
Pornography, Communications Technologies, and Culture  
Energy Transitions

## **PUBLICATIONS**

### **Monographs:**

*FAXED: The Rise and Fall of the Fax Machine* (Baltimore: Johns Hopkins University Press, 2015).

*The Electrification of Russia, 1880-1926* (Ithaca: Cornell University Press, 1992).

### **Edited books:**

With Roger Launius, eds., *Taking Off: A Century of Manned Flight* (Reston, VA: American Institute of Aeronautics and Astronautics, 2003).

### **Refereed Articles:**

(abbreviation: IEEE is the Institute of Electrical and Electronic Engineers)

"Old Technologies Never Die, They Just Never Get Updated," *International Journal for the History of Engineering and Technology* 80:2 (July 2010), 166-82.

"Failure & Technology," *Japan Journal for Science, Technology & Society* 18 (2009), 91-118.

“The Dog That Did Not Bark during the Night: The "Normalcy" of Russian, Soviet, and Post-Soviet Science and Technology Studies,” *Technology & Culture* 47:3 (July 2006), 623-37.

“Does Your Mother Know What You *Really* Do? The Changing Nature and Image of Computer-Based Pornography,” *History and Technology* 22:1 (March 2006), 1-25.

“Pretty Good Technologies and Visible Disasters,” *Technology & Culture* 42:1 (January 2001), 204-07.

"From Lemons to Lemonade: The Development of AP Wirephoto," *American Journalism* 17:4 (Fall 2000), 55-72.

“Pornography, Video, and the Internet,” *IEEE Technology and Society Magazine* 19:1 (Spring 2000), 27-34; reprinted in Alexander Halavais, ed., *Cyberporn and Society* (Dubuque, IA: KendallHunt, 2005).

"Pornography, Technology, and Progress," *ICON* [Journal of the International Committee for the History of Technology] 4 (1998), 94-125.

"Texas Politics and the Fax Revolution," *Information Systems Research* 7:1 (March 1996), 37-51; reprinted with a coda in JoAnne Yates and John Van Maanen, eds., *Information Technology and Organizational Transformation: History, Rhetoric, and Practice* (Thousand Oaks, CA: Sage Publications, 2001), 59-85.

"Soviet Electrification: The Roads Not Taken," *IEEE Technology and Society Magazine* 12:2 (Summer 1993), 13-20.

"Facsimile's False Starts," *IEEE Spectrum* February 1993, 46-49.

"Technology Transfer in Russian Electrification, 1870-1925," *History of Technology* 13 (1991), 214-33.

### **Book Chapters and Essays:**

“Fraud and froth: Free-riding the 3D Printing Wave,” in Bibi van den Berg, ed., *3D printing: destiny, doom or dream?* (Leiden, Netherlands: University of Leiden, 2013), 105-18.

“War, the First Nationalization, Restructuring, and Renewal, 1914-1929,” (with Mira Wilkins, William J. Hausman, Peter Hertner, Pierre Lanthier, and Luciano Segreto) in William Hausman, Peter Hertner, and Mira Wilkins, *Global Electrification: Multinational Enterprise and International Finance in the History of Light and Power, 1878-2007* (Cambridge: Cambridge University Press, 2008), 125-89.

“Great (Unfulfilled) Expectations: To Boldly Go Where No Social Scientist and Historian Have Gone Before,” in Steven J. Dick, ed., *Remembering the Space Age* (Washington, DC: National Aeronautics and Space Administration [NASA], 2008), 135-54.

“The Soviet Union and Nazi Germany,” in W. Bernard Carlson, ed., *Technology in World History* (New York: Oxford University Press, 2005), 7 vols., 6:36-63.

“Anti-ballistic Missile Defense,” in James Bradford, ed., *International Encyclopedia of Military History* (London: Routledge, 2006), 2 vols., 2:74.

"Soviet-American Scientific and Technical Cooperation: Lessons from the Past," (with Paul R. Josephson) in Center for Foreign Policy Development, *Soviet Foreign Economic Policy and International Security* (Boston: M.E. Sharpe, 1991), 185-208.

"The Role of the Military in the Electrification of Russia, 1870-1890," in E. Mendelsohn, M.R. Smith and P. Weingart, eds., *Science, Technology and the Military* 12 (1988): 291-305.

### **Non-Refereed Articles:**

“STARS: Fax machines,” *Proceedings of the IEEE* 102:11 (November 2014), 1858-65. Also as [http://www.ieeeahn.org/wiki/index.php/STARS:Fax\\_Machines](http://www.ieeeahn.org/wiki/index.php/STARS:Fax_Machines)

“Visible and Invisible,” *Journal of the Institute of Image Electronics Engineers of Japan* 42:2 (March 2013), 168-69.

“Affordable Access to Space,” National Academy of Sciences *Issues in Science and Technology* 28:3 (Fall 2012), 57-62 <http://www.issues.org/29.1/jonathan.html>.

“A Florentine in Paris: The Caselli Pantelegraph and Its Successors, 1859-1871,” *The Origins of Electrotechnologies. Third IEEE History of Electro-Technology Conference [HISTELCON], Pavia, Italy, September 5-7, 2012* (Pavia: IEEE Italy Section and University of Pavia, 2012), 1-6.

“The Cost of Reaching Orbit: Ground-Based Launch Systems,” *Space Policy* 27 (2011), 77-80.

“Creating Fax Standards: Technology Red in Tooth and Claw?” *Kagakugijutsushi. The Japanese Journal for the History of Science and Technology* 11 (July 2010), 37-66.

“Historians: Learning from the History of Technical Societies,” *Proceedings of the 2009 IEEE Conference on the History of Technical Societies*  
[ieeexplore.ieee.org/iel5/5337816/5337817/05337825.pdf](http://ieeexplore.ieee.org/iel5/5337816/5337817/05337825.pdf)

“Do-It-Yourself Pornography - The Democratization of Pornography,” in Johannes Gernzfurthner, Gunther Friesinger, and Daniel Fabry, eds., *prOnnovation? Pornography and Technological Innovation* (San Francisco: Re/Search, 2008), 48-55.

“Nuclear Waste Disposal in Space: BEP's Best Hope?” in K. Komurasaki, T. Yabe, S. Uchida, and A. Sasoh, eds., *Beamed Energy Propulsion, Fourth International Symposium*. November 2005, Nara, Japan (Washington, DC: American Institute of Physics, 2006), 600-04.

“The Changing Picture of Fax,” in Bernard Finn, principal editor, *Presenting Pictures: Artefacts* 4 (2004), 116-28.

“The French Roots of the Fax,” *Antenna* [Journal of the Communications Interest Group of the Society for the History of Technology] 16:2 (April 2004), 5-8.

“When Worlds Collide: Government and Electrification, 1892-1939,” *Business and Economic History On-line* 1 (2003)  
[www.h-net.org/~business/bhcweb/publications/BEHonline/2003/Coopersmith.pdf](http://www.h-net.org/~business/bhcweb/publications/BEHonline/2003/Coopersmith.pdf).

“Flying the Unprofitable Skies: Commercial Aviation in America,” in Jonathan Coopersmith and Roger Launius, eds., *Taking Off: A Century of Manned Flight* (Reston, VA: American Institute of Aeronautics and Astronautics, 2003), 93-108.

“Membership Has Its Partisans,” *IEEE Annals of the History of Computing* 24:2 (April-June 2002), 103-04 [www.computer.org/annals/an2002/pdf/a2104.pdf](http://www.computer.org/annals/an2002/pdf/a2104.pdf).

“The Politician as the Patron,” *IEEE Annals of the History of Computing* 22:4 (October-December 2000), 88-89.

“Creating an Infrastructure for Space Exploitation: Space Disposal of High-Level Nuclear Waste,” in Stewart W. Johnson, ed., *Space 2000. The Seventh International Conference and Exposition on Engineering, Construction, Operations, and Business in Space (February 27 - March 2, 2000)* Albuquerque, New Mexico (Reston, VA: American Society for Chemical Engineering, 2000), 624-30.

"Creating the Commons: Establishing a Civic Space for a New Form of Communications," *Business and Economic History* 28:1 (Fall 1999), 115-24.

"The Role of the Pornography Industry in the Development of Videotape and the Internet," in *Women and Technology: Historical, Societal, and Professional Perspectives. IEEE International Symposium on Technology and Society 1999 (ISTAS '99)* (New Brunswick, NJ: Institute of Electrical and Electronic Engineers, 1999), 175-82.

“Taking Up the Garbage: Disposal of Nuclear Waste in Space,” *Space Manufacturing 12: Challenges and Opportunities. Proceedings of the Fourteenth SSI/Princeton Conference on Space Manufacturing May 6-9, 1999* Princeton, NJ (Princeton, NJ: Space Studies Institute, 1999), 111-15.

*Setting the Stage: Government-Industry Creation of the Japanese Fax Industry*, Japan Industry and Management of Technology [JIMT] Series Working Paper 97-03-1, University of Texas, Austin, March 1997.

"Technological Innovation and Failure: The Case of the Fax Machine," *Proceedings of the Conference on Business History* (Rotterdam, Netherlands: Centre of Business History, Erasmus University, 1995), 61-77.

"The Failure of Fax: When a Vision Is Not Enough," *Business and Economic History* 23:1 (Fall 1994), 272-82.

*Just the Fax: How Japanese Manufacturers Came to Dominate a Critical Technology* (Washington, DC: Economic Strategy Institute, 1994).

**Other:**

"Applying the History of Technology in the Teaching of World History," *World History Bulletin* 15:2 (Fall 1999), 16-20.

"History of the Space Program," *Science, Technology & Society* [Curriculum Newsletter of the Lehigh University Science, Technology and Society (STS) Program] 117/118 (Fall/Winter 1998), 14-16.

**Fellowships and Research Grants:**

Texas A&M University

Glasscock Center Faculty Research Fellowship	2014
College of Liberal Arts Common Ground Curriculum Grant	2014
College of Liberal Arts International Travel Grant	1994, 2013
Digital Commons Computer Access Fee/Instructional Enhancement Fee (CAF/IEF) Funding Grant for the Department of History	2003
Faculty Development Leave	1995-96, 2001-02
International Research Travel Grant	1994
Military Studies Institute Research Grant	1993
Honors Curriculum Development Grant (with Chester Dunning and Roger Reese)	1991

Council for the International Exchange of Scholars

Fulbright Lecturer-Researcher Tokyo Institute of Technology	2008-09
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National Science Foundation

Science, Technology, and Society Program	1994-95
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National Museum of American History, Smithsonian Institution

Visiting Fellow	1991-92
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Hoover Institution, Stanford University

Visiting Scholar, Title VIII Program	1987-88
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Institute of Electrical and Electronic Engineers (IEEE)

Postgraduate Fellow in Electrical Engineering History MIT Program in Science, Technology and Society	1986-87
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Russian Research Center, Harvard University

Visiting Scholar	1986-87
International Research and Exchange Board (IREX) Fellowship to Moscow State University, Soviet Union	1985-86

**Honors:**

Institute of Electrical and Electronic Engineers Senior Member for “significant performance”	2015
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American Association for the Advancement of Science Fellow “elected for distinguished contributions to the history and philosophy of science and technology, as well as for dedicated leadership to the AAAS Section on History and Philosophy of Science”	2014
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Society for the History of Technology Sally Hacker Prize for “exceptional scholarship that reaches beyond the academy toward a broad audience” to <i>Technology in World History</i> , editor W. Bernard Carlson.	2009
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**Papers Presented at Professional Meetings:**

“Betting on a Cold Deck: Information Asymmetries and Investment Inequalities in Financial Markets,” Business History Conference Annual Meeting, Miami, FL, June 2015.

“Like Flies to Honey: Fraud and Froth in Emerging Technologies,” Society for Economic Anthropology Annual Meeting, Lexington, KY, April 2015.

“The Success and Failure of US-Soviet Magnetohydrodynamics Cooperation,” Association for Slavic, East European, and Eurasian Studies Annual Meeting, Austin, TX, November 2014.

“Like Flies to Honey: Emerging Technologies and Fraud and Froth,” “Shady Business: White Collar Crime in History,” German Historical Institute, Washington, DC, September 2014.

“Academic Societies and Public Policy: Help or Hindrance?” “Pressing Issues: The History of Technology Meets Public Policy. Goldfarb Center International Conference,” Colby College, Colby, ME, October 9, 2013.

“Fraud and froth: Free-riding the 3D Printing Wave,” “3D printing: destiny, doom or dream?” University of Leiden, Leiden, Holland, September, 2013.

“A Florentine in Paris: The Caselli Pantelegraph and Its Successors, 1859-1871,” Third Institute of Electrical and Electronic Engineers [IEEE] History of Electro-Technology Conference [HISTELCON], Pavia, Italy, September 2012.

“Friend, Foe, or Forgotten? Changing Perceptions of Japanese Technologies,” Prometheans session, Society for the History of Technology Annual Meeting, Cleveland, OH, November 2011.

“The Failure of Fax,” Communications Colloquium, Columbia University, New York City, NY, November 12, 2010.

“Selling the Technology: The Importance of Sales Agents,” Prometheans Special Interest Group session, Society for the History of Technology Annual Meeting, Tacoma, WA, October 2010.

“The Elephant in the Room: The Normality of Failure in the History of Technology,” Business History Conference Annual Meeting, Athens, GA, March 2010.

“Transmission Error: Fax, Failure and the Roads Less Traveled in the History of Technology,” Society for the History of Technology Annual Meeting, Pittsburgh, PA, October 2009.

“You Can’t Get There From Here ... Or Can You? Economical Launch Systems As A Prerequisite For SPS,” Space Canada 2009. International Symposium on Solar Power Satellites, Toronto, Canada, September 2009.

“Historians: Learning from the History of Technical Societies,” Institute of Electrical and Electronic Engineers Conference on the History of Technical Societies,” Philadelphia, PA, August 2009.

“Technology and Failure,” East Asian Science Technology Studies (EASTS) Annual Meeting, Tainan, Taiwan, April 2009.

“The Decline of Fax (and the Rise of *Keitai*, E-mail, and the Web) in the United States and Japan,” Asian-Pacific Business and Economic History Conference Annual Meeting, Tokyo, Japan, February, 2009.

“Forced Faxing: The Japanese Government and the Fax Machine, 1960-1995,” 12<sup>th</sup> International Conference on the History of Science in East Asia, Baltimore, MD, July 2008.

“Lies, Damn Lies, and Predictions: The Role of Market Research in Shaping Technological Expectations,” Society for the History of Technology Annual Meeting, Lisbon, Portugal, October 2008.

“Creating Fax Standards: Technology Red in Tooth and Claw?” Society for the History of Technology Annual Meeting, Washington, DC, October 2007.

“Great (Unfulfilled) Expectations: To Boldly Go Where No Social Scientist and Historian Have Gone Before,” National Aeronautics and Space Administration Conference on Remembering the Space Age, Washington, DC, October 21, 2007.

“Where Do Communications Technologies Go to Die?” Symposium on the History of



Communication Technologies, Washington, DC, October 17, 2007.

“The Democratization of Pornography,” Ars Electronica, San Francisco, CA, October 5, 2007.

“Military Support of the Fax Industry: Opportunity or Obstacle?” “Technological Innovation and the Cold War,” Hagley Museum and Library, Wilmington, DE, March 9, 2007.

“Faxing in Politics: Revolutionary or Reinforcing Technology?” “Inventing America: The Interplay of Technology and Democracy in Shaping American Identity,” University of Virginia, Charlottesville, VA, November 3-4, 2006.

“Looking at The Electrification of Russia, 1880-1926 in Light of Contemporary Russian Electrification,” European University in St. Petersburg, St. Petersburg, Russia, April 14, 2006.

“Old Technologies Never Die, They Just Don’t Get Updated,” “Cross-Connexions: Communications, Society and Change Conference,” Science Museum, London, United Kingdom, November 2005.

“The Dog that Did Not Bark During the Night: The ‘Normalcy’ of Russian, Soviet, and Post-Soviet Science and Technology,” “Intelligentsia: Russian and Soviet Science on the World Stage, 1860-1960,” University of Georgia, Athens, GA, October 29-31, 2004.

“Does Your Mother Know What You Really Do? The Changing Nature and Image of Computer-Based Pornography,” Society for the History of Technology Annual Meeting, Amsterdam, Holland, October 2004.

“When Worlds Collide: Governments and Electrification, 1892-1939,” Business History Conference Annual Meeting, Lowell, MA, July 2003.

“Interwar Central European Electrification,” Global Electrification Working Group, Paris, France, May 2003.

“Russian Science and Technology from the Tsarist to Post-Soviet Era: Interactions with the World,” Kennan Institute, Woodrow Wilson International Center for Scholars, Washington, DC, March 20, 2003.

“Fax Services: Providing Value and Convenience,” Business History Conference Annual Meeting, Miami, FL, April 2001.

“The Blackboxing of a Technology: The Evolution of Facsimile, 1843-2000,” International Committee for the History of Technology Annual Meeting, Prague, Czech Republic, August 2000.

“Building the Blackbox: 150 Years of the Fax Machine,” *ARTEFACTS* conference Paris, France, November 1999.

"RCA and Facsimile: Researching the Image," Society for the History of Technology Annual Meeting, Detroit, MI, October 1999.

"Taking the Garbage Up: Disposal of High-Level Nuclear Waste in Space," 14th Conference on Space Manufacturing, Princeton University, Princeton, NJ, May 1999.

"Disposal of High-Level Nuclear Waste in Space," American Institute of Aeronautics and Astronautics Annual Technical Symposium, Houston, TX, May 1999.

"Creating the Commons: Establishing a Civic Space for a New Form of Communications," Business History Conference Annual Meeting, Durham, NC, March 1999.

"Communications Technology and the Collapse of the Soviet Union," "International Research and Exchange Board (IREX) Conference on Science, Technology, and the Public in Russia," University of Texas, Austin, TX, February 1999.

"Applying the History of Technology to World History," World History Association of Texas Annual Meeting, Houston, TX, 1998.

"Communication Technologies and Pornography," Seminar at the Programme on Information and Communication Technologies, Research Centre for Social Sciences," University of Edinburgh, Scotland, July 1997.

"The Rise of the Fax Machine in Japan," Society for the History of Technology Annual Meeting, Pasadena, CA, October 1997.

"Technology and Pornography," International Committee for the History of Technology Annual Meeting, Budapest, Hungary, August 1996.

"The Japanese Role in the Development and Diffusion of the Fax Machine," Rocky Mountain/Southwest Regional Japan Seminar, Dallas, TX, April 1995.

"Technological Innovation and Failure," Conference on Business History, Erasmus University, Rotterdam, Holland, October 1994.

"Losing the Race: The British Post Office and Wirephotos," Economic and Business History Society Annual Meeting, Santa Fe, NM, April 1994.

"The Failure of Fax: When a Vision Is Not Enough," Business History Conference Annual Meeting, Williamsburg, VA, March 1994.

"The Electrification of Cities in Tsarist Russia," "La ville et ses techniques, approches historiques" Institut d'Histoire Moderne et Contemporaine, Paris, France, January 1994.

"Just the Fax: How Japanese Manufacturers Came to Dominate a Critical Technology," Economic Strategy Institute, Washington, DC, October 1993.

“The Facts on Fax,” Department of Terrestrial Magnetism, Carnegie Institution, Washington, DC, May 20, 1992.

"Electrification as a State Technology: The Politics of Technological Choice," Kennan Institute for Advanced Russian Studies, Woodrow Wilson International Center for Scholars, Washington, DC, April 20, 1992.

“Facts on Fax,” IEEE Society for the Social Implications of Technology and Communications Society, Tysons Corner, VA, April 8, 1992.

“Facts on Fax,” University Seminar on National Security and International Economic Policy, George Washington University, Washington, DC, March 9, 1992.

“History of the Fax Machine,” National Museum of American History Colloquium, Washington, DC, December 1991.

“History of the Fax Machine,” Tokyo Science Museum, Tokyo, Japan, November 1991.

“The History of the Fax Machine,” Scientia Colloquia and Symposium, Rice University, Houston, TX, April 15, 1991.

"Technology Transfer in Russian Electrification, 1870-1925," European History Section of the Southern Historical Association Annual Meeting, New Orleans, LA, November 1990.

"AC-DC in Russia: The Non-Battle of the Systems," Society for the Social Studies of Science Annual Meeting, Irvine, CA, November 1989.

"International Politics and Space," American Association for the Advancement of Slavic Studies Annual Meeting, Chicago, IL, November 1989.

"The Foundation of Russian Electrical Engineering Education," Society for the History of Technology Annual Meeting, Sacramento, CA, October, 1989.

"Electrification and the Military, 1870-1900," British Society for the History of Science conference on Society and War, Imperial College, London, United Kingdom, January 7, 1989.

"The Russian Military and Electrification, 1870-90," American Historical Association Annual Meeting, Cincinnati, OH, December 1988.

### **Book Reviews:**

*SPAM: A Shadow History of the Internet* by Finn Brunton, *Technology and Culture* 55:4 (October 2014), 1034-35.

*Histories of Computing* by Michael Sean Mahoney, *IEEE Annals of the History of Computing* 35:4 (October-December 2013), 86.

*Engineers of Revolutionary Russia: Iurii V. Lomonosov (1876-1952) and the Railways* by Anthony Heywood, *Technology and Culture* 53:3 (July 2012), 707-08.

*The Red Rocket's Glare: Spaceflight and the Soviet Imagination, 1857-1957*, by Asif A. Siddiqi, *Journal of Military History* 74:4 (October 2010), 1325-26.

*Would Trotsky Wear a Bluetooth? Technological Utopianism under Socialism, 1917–1989* by Paul R. Josephson *Russian Review* 69:4 (October 2010), 722-23.

*Red Prometheus: Engineering and Dictatorship in East Germany, 1945-1990* by Dolores E. Augustine, *Enterprise & Society* 12:3 (September 2010), 688-91.

"Rockets and People: Hot Days of the Cold War," by Boris Chertok, *Journal of Military History* 74:3 (July 2010), 973.

*The History of Information Security: A Comprehensive Handbook* by Karl de Leeuw, Jan Bergstra, *Technology & Culture* 50:1 (January 2009), 262-63.

*Dictatorship of the Air: Aviation Culture and the Fate of Modern Russia* by Scott W. Palmer, et al., *Journal of Modern History* 80:4 (December 2008), 966-68.

*Spreading the Word: A History of Information in the California Gold Rush* by Richard T. Stillson, *Enterprise & Society* 9:1 (March 2008), 232-34.

*Residual Media* by C. R. Acland, ed., *IEEE Technology and Society Magazine* 27:4 (Winter 2008), 12-13.

*Farm to Factory: A Reinterpretation of the Soviet Industrial Revolution* by Robert C. Allen, *Canadian American Slavic Studies* 41:3 (September 2007), 351-52.

*Better off: Flipping the Switch on Technology* by Eric Brende, *Technology & Culture* 46:3 (July 2005), 623-24.

"Essay Review: A Machine Named Ginger: Steve Kemper, *Code Name Ginger*," *Technology & Culture* 45:3 (July 2004), 603-07.

*A Computer Called LEO. Lyons Teashop and the World's First Office Computer* by Georgina Ferry, *Enterprise & Society* 5:1 (March 2004), 142-44.

*Inventing Modern America: From the Microwave to the Mouse* by David E. Brown et al., *Isis* 94:4 (December 2003), 777-78.

*Wireless Nation: The Frenzied Launch of the Cellular Revolution in America* by James B. Murray, Jr., *Technology & Culture* 44:3 (July 2003), 631-32.

*Listening In: Radio and the American Imagination, from Amos 'n' Andy and Edward R. Murrow to Wolfman Jack and Howard Stern* by Susan J. Douglas, *Technology & Culture* 43:2 (April 2002), 436-38.

*Modernising Lenin's Russia: Economic Reconstruction, Foreign Trade and the Railways* by Anthony Heywood, *Slavic Review* 60:2 (Summer 2001), 439.

*Americanization and Its Limits: Reworking US Technology and Management in Post-War Europe and Japan* by Jonathan Zeitlin and Gary Herrigel, eds., *Business History* 43:2 (April 2001), 155-56.

*Meaning in Technology* by Arnold Pacey, *Metascience: An International Review Journal for the History, Philosophy and Social Studies of Science* 10:1 (March 2001), 103-04.

*Global Communications since 1844: Geopolitics and Technology* by Peter J. Hugill, *Business History Review* 74:2 (Summer 2000), 307.

*What Have We Learned about Science and Technology from the Russian Experience?* by Loren R. Graham, *Isis* 91:2 (June 2000), 409-10.

*Biographical Dictionary of the History of Technology* by Lance Day and Ian McNeil, eds., *Business History* 41:4 (December 1999), 167-68.

*Technology and European Overseas Enterprise: Diffusion, Adaption, and Adoption* by Michael Adas, *Journal of World History* 10:2 (Fall 1999), 462-63.

*Consuming Power: A Social History of American Energies* by David E. Nye, *Isis* 90:3 (September 1999), 583.

*Diffusion of New Technologies in the Post-Communist World* by Yakov M. Rabkin, ed., *Metascience: An International Review Journal for the History, Philosophy and Social Studies of Science* 8:2 (July 1999), 307-09.

*Industry, State, and Society in Stalin's Russia, 1926-1934* by David R. Shearer, *Technology and Culture* 39:2 (April 1998): 346-48.

*Science on the Run. Information Management and Industrial Geophysics at Schlumberger, 1920-1940* by Geoffrey C. Bowker, *Science* November 15, 1996, 1148.

*Energy Choices in Russia* by Robert E. Ebel, *Russian Review* 55:3 (June 1996), 522-23.

*Stalin and the Bomb. The Soviet Union and Atomic Energy, 1939-1956* by David Holloway, *American Journal of Physics* 63:6 (July 1995), 669-70.

*Science and the Soviet Social Order* by Loren R. Graham, ed., *Canadian American Slavic Studies* 29:3-4 (1995), 418.

*Social Dimensions of Soviet Industrialization* by William G. Rosenberg, Lewis H. Siegelbaum, *Journal of Social History* 28:2 (Winter 1994), 390-92.

*Science in Russia and the Soviet Union: A Short History* by Loren R. Graham, *Russian Review* 53:4 (October 1994), 594.

*Electrifying Finland: The Transfer of a New Technology into a Late Industrialising Economy* by Timo Myllyntaus, *Isis* 85:3 (September 1994), 547.

*Modernization and Revolution: Dilemmas of Progress in Late Imperial Russia in Honor of Arthur P. Mendel* by Edward H. Judge et al., eds., *Canadian American Slavic Studies* 28:3 (1994), 323-24.

*The Ghost of the Executed Engineer: Technology and the Fall of the Soviet Union* by Loren R. Graham, *Isis* 85:4 (December 1994): 735.

*Questions of Power: Electricity and Environment in Inter-War Britain* by Bill Luckin, *Technology and Culture* 33:2 (April 1992), 393-95.

*Soviet Science on the Edge of Reform* by Harley D. Balzer, *Isis*, 82:2 (June 1991), 394.

*From the Titanic to the Challenger: An Annotated Bibliography on Technological Failures of the Twentieth Century* by Susan Davis Herring, *Technology and Culture* 3:1 (January 1991), 150.

*Krzhizhanovsky* by Vladimir Kartsev, trans. by Oleg Glebov, *Isis* 79:3 (September 1988), 365-66.

*The Politics of Industrial Mobilization in Russia, 1914-17: A Study of the War-Industries Committees* by Lewis H. Siegelbaum, *Technology and Culture* 27:2 (April 1986), 311-13.

## **SELECTIVE INTRAMURAL PROFESSIONAL AND SERVICE ACTIVITY**

### **Departmental:**

Diversity Committee, Member, 2013-14.

20<sup>th</sup> Century American Search Committee,  
Member, 2010-11  
Acting Chair, 2011.

European War and Society Search Committee, Member, 2004-05.

Faculty Awards Committee, Member, 2002-05.

Strategic Plan Committee, Member, 1997.

Executive Committee, Member, 1993-94.

**College:**

Promotion & Tenure Committee for Dale Rice, Department of Communication, Member, 2014.

Ad Hoc College Committee to Review Department Head Requests for One-Time Merit Payment, Member, February 2014.

Strategic Advisory Committee, Member, 2013-14.

Program to Enhance Scholarly and Creative Activities, Reviewer, 2008.

Liberal Arts Council,  
Chair, 2007-08  
Secretary, 2006-07  
History Department Representative, 2005-08.

Digital Humanities Working Group (née Humanities Informatics Working Group),  
Member, 2005-15  
Glasscock Stipendiary Faculty Fellowship Program, Reviewer, 2007.

Ad Hoc Committee to Evaluate Faculty Development, Member, 2003.

Ad Hoc Committee on Tenure & Promotion Standards, Member, 2000.

Strategic Plan Focus Group, Member, March 25, 1997.

Center for Biotechnology Policy and Ethics,  
Steering Committee Member, 1993-95.

**University:**

Energy Institute, Member, 2015.

Faculty Senate,  
Member 2009-15; 1996-2001  
Executive Committee, Member, 2012-15  
Legislative Affairs and Outreach Committee, Chair, 2013-15  
Budget Information Committee, Chair, 2011-13  
Personnel & Welfare Committee, Chair, 2000.

Transportation Services Advisory Committee, Faculty Senate representative, 2011-12, 2013-14.

Program to Enhance Scholarly and Creative Activities Reviewer, 2008.

Bicycle Committee, Member, 2007.

Bicycle System Task Force, Member, 2005.

International Research Travel Assistance Grant Reviewer, 2005.

Texas A&M University Press Faculty Advisory Committee Member, 2002-08.

TEAM Blinn committee, Faculty Senate Representative, 2000.

Texas A&M University Chapter, American Association of University Professors (AAUP)

President and co-founder, 1997-98

President, 1999-2000

Secretary-Treasurer, 2001-08

Vice-President, 2014-15

Moderator, Campus Conference on Plagiarism, April 2002

Member, delegation that visited Blinn College as part of its de-censuring process, 2001.

Co-organizer, forum on distance learning, November 2000.

Texas Conference, Treasurer, 2002-08.

Student Conference on National Affairs (SCONA) Roundtable Host, “Caught in the Sandstorm,” February 2014.

Student Conference on National Affairs (SCONA) Roundtable Host, “Fifth Dimension Warfare: The Future of Cyber Conflict” February 2013.

**Qatar presentation:**

“Riding the Roller Coaster: Oil in American History,” Initiative in Technology, Culture and Society, February 18, 2013.

**Campus Presentations:**

“Space History,” Exploration Series, University Honors Program, April 13, 2015.

“The Future is Farther Than You Think: The *Longue Durée* of Energy Transitions,” “Climate Change Forum,” Environmental Programs in Geosciences, February 13, 2015.

“Why Aren’t We All in Space?” Students for the Exploration and Development of Space (SEDS), A&M chapter, February 3, 2015.

“History of Technology,” National Scholar Invitational – Honors Experience Lectures, July 9, 2012.

“Failure and Technology,” Engineering Living Learning Community (ELLC), February 3, 2010.



“Space History,” student chapter of American Institute of Aeronautics and Astronautics, March 2010.

"From Fax to *Keitai* in Japan: Changing communications and their significance in the United States and Japan," Asian Studies Forum, October 2010.

“Pornography and technology,” student chapter of Institute of Electrical and Electronic Engineers, April 2011.

“Failure in technology,” student chapter of Institute of Electrical and Electronic Engineers, November 2011.

“Technology,” Academy for Future International Leaders, February 2001-05.

“The Chinese Space Program: The Next Space Race?” Memorial Student Union E.L. Miller Science & Technology, November 5, 2003.

“Technology Prediction,” YOUth Symposium, March 1, 2003.

“Technology and Film,” Film Society, April 18, 2001.

“Fax: The Evolution of a Technology,” seminar, Department of Geography, September 22, 2000.

“Technology and Identity,” Summer Honors Invitational Program, University Honors Program, June 6, 2000.

"Boom and Bust in the Petroleum World," Petroleum Engineering Department, November 19, 1998.

"Pornography and Progress," Interdisciplinary Group for Humanistic Studies, Texas A&M University, September 1998.

## **EXTRAMURAL PROFESSIONAL AND SERVICE ACTIVITY**

### **Conference Chair, Commenting, and Organizing Activity**

#### **Chair:**

“Criminality and Technology,” Society for the History of Technology Annual Meeting, Dearborn, MI, November 2014.

“Into the Real World: Historians and Public Policy. President's Roundtable,” Society for the History of Technology Annual Meeting, Portland, ME, October 2013.

“Mobilizing Media,” Society for the History of Technology Annual Meeting, Cleveland, OH, October 2011.

“Innovation and Standardization,” Business History Conference Annual Meeting, St. Louis, MO, April 2011.

“Geek Worlds,” Society for the History of Technology Annual Meeting, Tacoma, WA, October 2010.

“Forcing the Future: Shaping the Trajectory of Technologies,” Society for the History of Technology Annual Meeting, Lisbon, Portugal, October 2011.

“Creating Social Networks,” Business History Conference Annual Meeting, Cleveland, OH, June 2007.

“What Causes Accidents? The Use and Misuse of Narratives about Inherently Risky Technologies,” Society for the History of Technology Annual Meeting, Las Vegas, NV, October 2006.

“Human Mediation in Networks of Communication,” Society for the History of Technology Annual Meeting, Las Vegas, NV, October 2006.

“Russian Intelligentsia and Science,” History of Science Society Annual Meeting, Austin, TX, November 2004.

“Engineering a Civil Society?” Society for the History of Technology Annual Meeting, Toronto, Canada, October 2002.

“Regulation of the Texas Oil Industry,” Texas State Historical Association Annual Meeting, Houston, TX, March 2001.

“NASA Cultures,” “National Aeronautics and Space Administration/National Air & Space Museum (NASA/NASM) Critical Issues in the History of Spaceflight Conference,” Washington, DC, April 2005.

“Controlling Risks/Risking Control,” Society for the History of Technology Annual Meeting, Baltimore, MD, October 1998.

“Tools in Service to the Lord,” Society for the History of Technology Annual Meeting, Charlottesville, VA, October 1995.

“Technological Innovations in Context,” Society for the Social Studies of Science Annual Meeting, Irvine, CA, November 1989.

**Commentator:**

“Managing the Periphery Across the 1917 Divide,” Association for Slavic, East European, and Eurasian Studies Annual Meeting, Austin, TX, November 2014.

“Criminality and Technology,” Society for the History of Technology Annual Meeting, Dearborn, MI, November 2014.

“Irrational Attachments to Technology: The Irony of Military Innovation,” Society for the History of Technology Annual Meeting, Dearborn, MI, November 2014.

“Cold War and its Discontents,” 5<sup>th</sup> Annual TAMU History Conference, Texas A&M University, College Station, TX, March 2014.

“Fight, Flight and Soldiers in War,” 4<sup>th</sup> Annual TAMU History Conference, Texas A&M University, College Station, TX, March 2013.

“State, Market, and the IT Sector,” Business History Conference Annual Meeting, Columbus, OH, March 2013.

“Mobilizing Media,” Society for the History of Technology Annual Meeting, Cleveland, OH, October 2011.

“Geek Worlds,” Society for the History of Technology Annual Meeting, Tacoma, WA, October 2010.

“What Causes Accidents? The Use and Misuse of Narratives about Inherently Risky Technologies,” Society for the History of Technology Annual Meeting, Las Vegas, NV, October 2006.

“Human Mediation in Networks of Communication,” Society for the History of Technology Annual Meeting, Las Vegas, NV, October 2006.

“‘The Far Away Near By’: Remote Sensing,” Society for the History of Technology Annual Meeting, Minneapolis, MN, October 2005.

“Mirror Image Twins? Constructing Spaceflight in the Soviet Union and the United States,” American Historical Association Annual Meeting, Washington, DC, January 2004.

“Inside Aviation,” Society for the History of Technology Annual Meeting, Toronto, Canada, August 2002.

“What Makes a Revolution? Technological Change in the 18<sup>th</sup> Century,” Society for the History of Technology Annual Meeting, San Jose, CA, October 2001.

“Post-Transition Science and Technology,” American Association for the Advancement of Slavic Studies Annual Meeting, Denver, CO, November 2000.

“Government Policy and the Shaping of British High Technology Industries after World War II,” Business History Conference Annual Meeting, Glasgow, Scotland, July 1997.

"Technology Transfer in the Twentieth Century," Society for the History of Technology Annual Meeting, London, England, July 1996.

"The Transfer of German Technology to Soviet Aviation after the Second World War," International Committee for the History of Technology Annual Meeting, Budapest, Hungary, 1996.

"Democracy and the Culture of Communications," symposium, Case Western Reserve University, Cleveland, OH, April 1995.

"American Technology Transfers to the Soviet Union between the World Wars: Economic Opportunities Transcend Ideology," American Historical Association Annual Meeting, Washington, DC, December 1992.

"Inside Aviation," Society for the History of Technology Annual Meeting, Uppsala, Sweden, July 1992.

"Emerging Information Societies in the Soviet Union and Eastern Europe," American Association for the Advancement of Slavic Studies Annual Meeting, Chicago, IL, November 1989.

**Organizer:**

"Into the Real World: Historians and Public Policy. President's Roundtable," Society for the History of Technology Annual Meeting, Portland, ME, October 2013.

"Forcing the Future: Shaping the Trajectory of Technologies," Society for the History of Technology Annual Meeting, Lisbon, Portugal, October 2011.

"Taking Off: A Century of Human Flight," American Association for the Advancement of Science Annual Meeting, Washington, DC, February 2003.

"The Business of Pleasure, Pornography, and Technology," Society for the History of Technology Annual Meeting, Amsterdam, Holland, October 2004.

"Politics of Utopian Technologies," American Association for the Advancement of Slavic Studies Annual Meeting, Washington, DC, November 1990.

"European-American Technology Transfer: The Three-Way Street," Southern Historical Association Annual Meeting, New Orleans, LA, October 1990.

**Co-organizer:**

With W. Bernard Carlson (University of Virginia), "Roundtable on the History of Capitalism," Society for the History of Technology Annual Meeting, Albuquerque, NM, October 2015.

With Matthew Hollow (York University, United Kingdom), "Betting on a Cold Deck: Information Asymmetries and Investment Inequalities in Financial Markets," Business History Conference Annual Meeting, Miami, FL, June 2015.

With Yuzo Takahashi (Tokyo University of Agriculture and Technology), “Electrotechnology in Japan,” Society for the History of Technology Annual Meeting, Pasadena, CA, October 1997.

**Professional Organization Memberships:**

American Association for the Advancement of Science  
American Association of University Professors  
American Historical Association  
Association for Slavic, East European, and Eurasian Studies  
Business History Conference  
Economic History Association  
Fulbright Association  
History of Science Society  
Institute of Electrical and Electronic Engineers  
International Committee for the History of Technology  
Society for the History of Technology  
Society for Military History  
Society for the Social Studies of Science

**Professional Organization Service:**

Society for the History of Technology  
    Member, Executive Council, 2013-15  
    Nominating Committee, 2009-11  
    Editorial Committee, 2000-05  
    Program Committee, 1994-96  
    Institute of Electrical and Electronic Engineers Prize Committee, 1991-93  
    Robinson Prize Committee, 1990-1992  
    Interest Groups  
        Mercurians (communications), Pam Graduate Student Research Grant  
            Committee, Member, 2011, 2013, 2015.  
            Book Review Editor for *Antenna*, 1994-2001.  
        WITH (women and technology) Treasurer, 2005-08.  
        SIGCIS (Computing and Information Science)/Computer History Museum Book  
            Prize, Member, 2011-13; Chair, 2013.  
        Jovians (electrical technology), Chair, 1994+.

American Association for the Advancement of Science Section on History and Philosophy of Science,

    Secretary, 2004-2012  
    Member-at-Large, 2000-2004  
    Representative of History of Science Society to Section, 2005-10.

Institute of Electrical and Electronic Engineers

    History Committee, Member, 2008-12, 1993-95  
    Region 5 History Committee Chair, 2010-11  
    With Eta Kappa Nu, Vladimir Karapetoff Eminent Members' Award for Career

Accomplishment, Juror, 1999, 2000.

Workshop on future cooperation, Center for the History of Electrical Engineering and the Institute for Electrical Engineering of Japan, Maui, Hawaii, December 1995.

Urban History Association Prize Committee for Best Non-North American Book, Member, 1991.

**Editorial Service:**

Editorial Board, *International Journal for the History of Engineering and Technology*, 2008+.

Manuscript reviewer for Cambridge University Press, IEEE Press, Johns Hopkins University Press, NASA History Office, MIT Press, Oxford University Press, Pearson Prentice Hall (chapter only), Routledge, Rutgers University Press, Smithsonian Institution Press, Texas A&M University Press, and University of Pittsburgh Press.

Article reviewer for *American Review of Canadian Studies*, *Comparative Technology Transfer and Society*, *Enterprise & Society*, *ICON*, *IEEE Annals in the History of Computing*, *IEEE Spectrum*, *Information & Culture*, *Information Society*, *Journal of American History*, *Journal of Information Technology*, *Journal of Porn Studies*, *Metascience*, *Problems of Post-Communism*, *Research Policy*, *Science in Context*, *Shashi: the Journal of Japanese Business and Company History*, *Slavic Review*, *Social Problems*, *Space Policy*, *Technology & Culture*, *WIREs Climate Change*.

Reviewer of grant proposals for the National Science Foundation Science, Technology, and Society Program, Estonian Science Foundation, and the University of Victoria Centre for Studies in Religion and Society (British Columbia, Canada).

**Extramural Service:**

Government Accountability Office Technology Readiness Assessment Guide, Expert, Washington, DC, 2013-15.

Member, National Aeronautics and Space Administration (NASA) History of the Scientific Exploration of Earth and Space (HSEES) Peer Review Panel, Washington, DC, June 2007.

National Aeronautics and Space Administration (NASA) Historical Advisory Committee Member, Washington, DC and Field Centers, 1993-2006.

National Science Foundation Advisory Panel for Science, Technology and Society Studies Member, Washington, DC, Fall 2001.

Participant, National Science Foundation (NSF) Workshop on the Human Dimension of Knowledge Networking, Santa Barbara, CA, June 1997.

**External scholarly evaluation:**

National Museum of American History, Smithsonian Institution, Washington, DC, research evaluation of curator, 2015.

National Air & Space Museum, Smithsonian Institution, Washington, DC, research evaluation of curator, 2004, 2006, and 2014.

University of Aberdeen, Scotland, evaluation for promotion to a chair, 2012.

University of South Carolina, Columbia, SC, research evaluation for tenure, 2011.

University of Central Florida, Orlando, FL, evaluation for tenure and promotion, 2010.

Fordham University, New York, evaluation for tenure and promotion, 2009.

### **Presentations**

#### **Professional organizations:**

“Low-Cost Access to Space,” Houston Chapter, Power Engineering Society, Institute of Electrical and Electronic Engineers, Houston, TX, February 2013.

“Why Is Spaceflight So Expensive?” Summer Honors Invitational Program – Honors Experience Lecture, Summer Science Program, Westmont College, Santa Barbara, CA, July 12, 2011.

“Pornography and the Internet,” Houston Chapter, Institute of Electrical and Electronic Engineers, Houston, TX, April 26, 2001.

"History of Japanese Technology," 1997 International Study Mission of the National Technological University Masters of Technology class, Orlando, FL, March 1997.

“History of the Fax Machine," Houston Chapter, Institute of Electrical and Electronic Engineers, Houston, TX, March 24, 1994.

#### **Civic organizations:**

“Texas A&M Today,” Abilene Texas A&M Club, Abilene, TX, May 6, 2015.

“Where do we go from here? A historical perspective on global environmentalism,” Eco-Vision, Washington, DC, April 16-18, 2007.

James Beniger *festschrift* invited speaker, Annenberg School of Communications, University of Southern California, Los Angeles, CA, April 2005.

“Technology Developments That Drive Advancements of the Internet,” Bryan Rotary Club, Bryan, TX, May 8, 2002.

“The History of Technology,” Brazos Valley Technology Alliance, Bryan, TX, November 21, 1995.

"What's the Next Stage in Space Exploration?" Princeton University Reunion Alumni/Faculty Forums, Panelist, Princeton, NJ, June 1993.

## **MEDIA AND PUBLIC OUTREACH**

### **Articles and historical commentaries on space:**

"NASA pact is a hopeful sign for space flight," *Houston Chronicle* September 29, 2014  
<http://www.chron.com/opinion/outlook/article/NASA-pact-is-a-hopeful-sign-for-space-flight-5785965.php>

"U.S. must take an honest look at cost of spaceflight," *Houston Chronicle* July 24, 2014  
<http://www.chron.com/default/article/Coopersmith-U-S-most-take-honest-look-at-costs-5642237.php>

"Space in the Lone Star State," *SpaceReview.com* November 18, 2013  
<http://www.thespacereview.com/article/2403/1>

"Gingrich and Romney: Right and Wrong on Space Travel," History News Service February 12, 2012  
[historynewsservice.org/2012/02/gingrich-and-romney-right-and-wrong-on-space-travel/](http://historynewsservice.org/2012/02/gingrich-and-romney-right-and-wrong-on-space-travel/)

"Reaching for the Stars – Affordably," *Space News* February 6, 2012, 19.  
[http://advertise.spacenews.com/sn\\_pdfs/SPN\\_20120206\\_Feb\\_2012.PDF](http://advertise.spacenews.com/sn_pdfs/SPN_20120206_Feb_2012.PDF)

"Human Spaceflight Began Fifty Years Ago This Month, But Not Much Has Happened Lately," History News Service April 4, 2011  
[www.historynewsservice.org/2011/04/human-spaceflight-began-fifty-years-ago-this-month-but-not-much-has-happened-lately/](http://www.historynewsservice.org/2011/04/human-spaceflight-began-fifty-years-ago-this-month-but-not-much-has-happened-lately/)

"(Anti-)socialism in space," *SpaceReview.com* September 27, 2010  
<http://www.thespacereview.com/article/1701/1>

"Obama in space: bold but not bold enough," *SpaceReview.com* April 12, 2010  
<http://www.thespacereview.com/article/1603/1>

"Facing Opportunities and Obstacles in Space," History News Service April 26, 2010  
<http://hnn.us/articles/125661.html>

"The view from Austin on commercial space," *SpaceReview.com* May 24, 2010  
<http://www.thespacereview.com/article/1630/1>

"Nuclear Waste in Space," *SpaceReview.com* August 22, 2005 [thespacereview.com/article/437/1](http://thespacereview.com/article/437/1)

"Bush Space: Misfocus on Ends, Not Means," *American Astronomical Society Space Times* March/April, 2004, 20-21.



“No Cheap Ticket to Outer Space,” History News Service, February 1, 2004 [www.h-net.org/~hns/articles/2004/020104a.html](http://www.h-net.org/~hns/articles/2004/020104a.html).

“China's Manned Space Program: an Opportunity for Cooperation,” History News Service, October 13, 2003 [www.h-net.org/~hns/articles/2003/101403a.html](http://www.h-net.org/~hns/articles/2003/101403a.html).

“Can We Boldly Go There Anymore,” History News Service, February 7, 2003 <http://www.h-net.org/~hns/articles/2003/020703a.html>.

“Humans in Space: Is the Cost Too High?” *American Astronomical Society Space Times* July-August, 2002, 3.

“Taking Up the Garbage,” National Space Society *Ad Astra* 14:4 (July-August 2002), 36-39.

“Humans in Space: Is the Cost Too High?” *American Institute of Aeronautics and Astronautics Horizons Newsletter* February 2002, 3-4 [www.jsc.nasa.gov/aiaa/horizons/feb02/feb02.pdf](http://www.jsc.nasa.gov/aiaa/horizons/feb02/feb02.pdf).

"Thirty Years since Apollo 11," History News Service July 14, 1999 [www.h-net.org/~hns/articles/1999/071499a.html](http://www.h-net.org/~hns/articles/1999/071499a.html).

“Disposal of Nuclear Waste in Space,” *Space News* February 13, 1995, 15.

"Space: The Russian Frontier," *The Wall Street Journal* April 25, 1988.

"Spring Thaw in Space," *Aerospace America*, May, 1989, 56-58.

### **Historical Commentary:**

“Obamacare Was a Mess at the Start: Here’s Why That’s Not Shocking,” History News Network May 11, 2014 <http://hnn.us/article/155592>

“Who Will Pay for the War in Iraq and When?” History News Service, November 2, 2006 <http://www.h-net.org/~hns/articles/2006/110206a.html>

“In What One Way Is Ralph Nader Like Lenin?” History News Network September 15, 2004 [hnn.us/articles/7297.htm](http://hnn.us/articles/7297.htm)

“Investing in Efficiency,” *Dallas Morning News* June 25, 2001, PG.

“But Al Gore Did Help Invent the Internet,” History News Service, October 24, 2000 [www.h-net.org/~hns/articles/2000/102400a.html](http://www.h-net.org/~hns/articles/2000/102400a.html).

When Sex Drives Technological Innovation,” *American Heritage* September 2000, 19-20 (interview).

"Who Should be the President's Next Science Advisor? Not a Physicist," *The Scientist* April 3, 1989, 11.

"Setting a Science Agenda for the Presidential Candidates," *The Scientist* July 25, 1988, PG.

**Interviews about my research and the history of technology:**

**Print:**

*Boston Herald, Bryan-College Station Eagle, Chief Information Officer, Dallas Morning News, Esquire, HigherEdTechDecisions, Macleans, New York Times, Ny Tid of Norway, Newsweek, San Antonio Express, Technology Review, Time, USA Today, Waco Tribune Herald, Washington Post, Washington Times*

**Radio and Television:**

Australian Broadcasting Corporation, Science Unit; BBC; Betterhumans, a German radio station; Canadian Broadcasting Corporation, "World Tonight"; China Radio International; CNN; KTRH; KXYL; National Public Radio, "All Things Considered" and "Marketplace"; TAZ, a German radio station; WOAI; WOW; WOWF.

**Blog:**

Creator, "Infinity Limited" history of technology blog on History News Network ([historynewsnetwork.org](http://historynewsnetwork.org)), 2015.