

Edmund Paul Russell III

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Education

University of Michigan, Ann Arbor, Michigan. Ph.D., Biology, 1993.
Stanford University, Stanford, California. B.A., English with distinction and highest honors, 1980.

Employment

Boston University, Boston, Massachusetts. Professor, Department of History, 2016-present.
University of Kansas, Lawrence, Kansas. Joyce and Elizabeth Hall Distinguished Professor of United States History, Department of History, 2013-2016.
University of Virginia, Charlottesville, Virginia. Professor, Department of Science, Technology, and Society and Department of History, 2011-2012. Associate Professor, 2000–2011. Assistant Professor, 1994-2000.
American University, Washington, D.C. Professorial Lecturer, Department of History, 1994.
University of Michigan, Ann Arbor, Michigan. Ph. D. Student, 1986-1993.
Stanford University, Stanford, California. Lou Henry Hoover House Manager, 1984-1986.
Duchesne Academy, Omaha, Nebraska. Teacher, American Literature, 1982-1983.
International Institute of Rural Reconstruction, Silang, Cavite, Philippines. Writer, Editor, and Appropriate Technology Project Leader with Volunteers in Asia, 1980-1982.

Honors and Awards

Distinguished Lecturer, Organization of American Historians, 2008-2017.
Leopold-Hidy Prize (for the best article published in *Environmental History* in 2003), awarded by the American Society for Environmental History and the Forest History Society for “Evolutionary History: Prospectus for a New Field,” *Environmental History* 8 (April 2003): 204-228.
Edelstein Prize (for an outstanding book in the history of technology published in the preceding three years), awarded by the Society for the History of Technology for *War and Nature: Fighting Humans and Insects with Chemicals from World War I to Silent Spring* (New York: Cambridge University Press, 2001), 2003.
Forum for the History of Science in America Prize (for the best article on the history of science in America published in the previous three years by a scholar within ten years of the Ph.D.) awarded by the Forum for the History of Science in America for “The Strange Career of DDT: Experts, Federal Capacity, and

‘Environmentalism’ in World War II,” *Technology and Culture* 40 (1999): 770-796, 2001.

State Council of Higher Education for Virginia Outstanding Faculty Award (awarded to eleven faculty members statewide), 1999.

Alumni Board of Trustees Teaching Award, University of Virginia (awarded to one assistant professor university-wide), 1998.

National Science Foundation CAREER Award, 1995-1999.

Teaching Fellows Award, University of Virginia (awarded to six faculty members), 1995-1996.

Rachel Carson Prize (for the best Ph.D. dissertation in environmental history completed in the previous two years), American Society for Environmental History, 1994.

Distinguished Dissertation Award, University of Michigan (awarded to four of 600 dissertations), 1994.

Prize for outstanding undergraduate honors thesis, Stanford University, 1980.

Visiting Positions and Fellowships

Extraordinary Member, Human Sciences Center, Ludwig Maximilians University, Munich, Germany, 2012-present.

Fellow, Institute of the Humanities and Global Cultures, University of Virginia, 2012-2013.

Rachel Carson Fellow, Rachel Carson Center of the Ludwig Maximilians University and Deutsches Museum, Munich, Germany, 2010-2011, 2012.

Life Member, Clare Hall, Cambridge University, Cambridge, England, 2003-present.

Visiting Scholar, Department of History and Philosophy of Science; Visiting Fellow, Clare Hall; Visiting Research Fellow, Centre for History and Economics, King’s College, Cambridge University, Cambridge, England, August 2002-July 2003.

American Association for the Advancement of Science-Environmental Protection Agency Science and Engineering Fellow, 1993.

Predocorial Fellow, National Museum of American History, Smithsonian Institution, 1991-1994.

Fulbright Fellow to Philippines, 1990 (declined).

Foreign Language and Area Studies Fellow, University of Michigan, 1989-1990.

University of Michigan Regents Fellow, 1986-1989.

Naturalist-Ecologist Training Program Fellow, University of Michigan Biological Station, 1987.

Refereed Books

Edmund Russell, *Greyhound Nation: A Coevolutionary History of England, 1200-1900* (under contract to Cambridge University Press; manuscript submitted).

Edmund Russell, *Evolutionary History: Uniting History and Biology to Understand Life on Earth* (New York, Cambridge University Press, 2011). Issued simultaneously in hardback, paperback, and ebook. Chinese translation in process (Beijing: Commercial Press, publication expected March 2017).

Richard P. Tucker and Edmund Russell (editors), *Natural Enemy, Natural Ally: Toward an Environmental History of War* (Corvallis: Oregon State University Press, 2004).

Edmund Russell, *War and Nature: Fighting Humans and Insects with Chemicals from World War I to Silent Spring* (New York: Cambridge University Press, 2001).
Issued simultaneously in hardback and paperback.

Other Books

Sally K. Fairfax and Edmund Russell (editors), *CQ Guide to U. S. Environmental Policy* (Washington, DC: CQ Press, 2014).

Refereed Journal Articles and Book Chapters

Aline Vedder, Lukasz Smigielski, Evgeny Gutyrchik, Yan Bao, Janusch Blautzik, Ernst Poeppel, Yuliya Zaytseva, and Edmund Russell, "Neurofunctional Correlates of Environmental Cognition: An fMRI Study with Images from Episodic Memory," *PLOS One* 10 (no. 4, 2015), e0122470, doi: 10.1371/journal.pone.0122470.

Edmund Russell, "Coevolutionary History," *American Historical Review* 119 (Dec. 2014): 1514-1528.

Edmund Russell, ["Evolutionary History: Prospectus for a New Field,"] *Global History Review* 4 (Dec. 2011): 150-177 (Chinese translation of "Evolutionary History" article published in 2003).

Edmund Russell, James Allison, Thomas Finger, John K. Brown, Brian Balogh, and W. Bernard Carlson, "The Nature of Power: Synthesizing the History of Technology and Environmental History," *Technology and Culture* 52 (April 2011): 246-259.

Edmund Russell, "Can Organisms Be Technology?" in Stephen Cutcliffe and Martin Reuss (editors), *The Illusory Boundary* (Charlottesville: University of Virginia Press, 2010), 249-262.

Edmund Russell and Jennifer Kane, "The Missing Link: Assessing the Reliability of Internet Citations in History Journals," *Technology and Culture* 49 (April 2008): 410-420.

Edmund Russell and Richard P. Tucker, "Introduction," in Richard P. Tucker and Edmund Russell (editors), *Natural Enemy, Natural Ally: Toward an Environmental History of War* (Corvallis: Oregon State University Press, 2004).

Edmund Russell, "'Speaking of Annihilation': Mobilizing for War against Human and Insect Enemies, 1914-1945," in Richard P. Tucker and Edmund Russell (editors), *Natural Enemy, Natural Ally: Toward an Environmental History of War* (Corvallis: Oregon State University Press, 2004).

Edmund Russell, "Introduction: The Garden in the Machine: Toward an Evolutionary History of Technology," in Susan R. Schrepfer and Philip Scranton (editors), *Industrializing Organisms: Introducing Evolutionary History* (New York: Routledge, 2004), 1-16.

Edmund Russell, "Evolutionary History: Prospectus for a New Field," *Environmental History* 8 (April 2003): 204-228.

Edmund Russell, "The Strange Career of DDT: Experts, Federal Capacity, and 'Environmentalism' in World War II," *Technology and Culture* 40 (1999): 770-796.

Edmund Russell, "L. O. Howard Promoted War Metaphors as a Rallying Cry for Economic Entomology," *American Entomologist* 45 (Summer 1999): 74-78.

Edmund Russell, "‘Lost Among the Parts Per Billion’: Ecological Protection at the United States Environmental Protection Agency, 1970-1993," *Environmental History* 2 (January 1997): 29-51.

Edmund Russell, "'Speaking of Annihilation': Mobilizing for War against Human and Insect Enemies, 1914-1945," *Journal of American History* 82 (March 1996): 1505-1529.

Edmund Russell, "Enemies Hypothesis: A Review of the Effect of Vegetational Diversity on Insect Predators and Parasitoids," *Environmental Entomology* 18 (1989): 590-599.

Law Review Article

Edmund Russell, "Nicking the Thin Edge of the Wedge: What History Suggests about the Environmental Law of War," *Virginia Environmental Law Journal* 24 (no. 3, 2005): 377-388.

Publications Related to Teaching

Edmund Russell and the Orbit Book Team, *War and Pieces: How Orbit Gum Conquered the World* (Lulu.com, 2009). Book of 382 pages written by students in STS 4010: Western Technology and Culture, Fall 2009.

Edmund Russell and the Cup Noodles Team, *Noodling around the World: Nissin's Instant Success in a Cup* (Lulu.com, 2009). Book of 320 pages written by students in STS 4010: Western Technology and Culture, Fall 2009.

Edmund Russell and the Red Bull Team, *Charging a Generation: Red Bull Revealed* (Lulu.com, 2008). Book of 202 pages written by students in STS 401: Western Technology and Culture, Fall 2008.

Edmund Russell, "Rethinking Discussion Leadership," *Teaching Concerns* (Charlottesville: University of Virginia Teaching Resource Center, Spring 2008), 1-2.

Edmund P. Russell III, "Environmental Regulation," in Carolyn Merchant (editor), *Major Problems in American Environmental History*, 2nd edition (Boston: Houghton Mifflin, 2005), 494-500.

Kathryn A. Neeley, Edmund P. Russell III, Donald E. Brown, Michael E. Gorman, and William T. Scherer, "Getting Real: The Challenges of Using Written Products of Undergraduate Research to Achieve Multiple Educational Goals," *2001 ASEE Annual Conference & Exposition Proceedings* (Washington: American Society for Engineering Education, 2001), session 3261 on CD-ROM.

Edmund Russell, reflection on teaching in J. Jenry Morsman IV, William B. McAllister, and Marva A. Barnett (editors), *Reflections on Teaching: Personal Essays on the Scholarship of Teaching* (Charlottesville: University of Virginia Teaching Resource Center, 1999), 111-113.

Edmund Russell, "Testing Insecticides and Repellents in World War II," in Merritt Roe Smith and Gregory Clancey (eds.), *Major Problems in the History of American Technology* (Boston: Houghton Mifflin, 1998), 399-409.

Edmund Russell, "The Committee on the History of Technology and Environment at the University of Virginia," *1998 ASEE Annual Conference Proceedings*

- (Washington: American Society for Engineering Education, 1998), Session 2461 on CD-ROM.
- Matthew M. Mehalik and Edmund Russell, "DesignTex, Incorporated (A) and (B) Teaching Note, UVA-E-0099TN" (Charlottesville, Virginia: Darden Graduate School of Business Administration, University of Virginia, 1996).
- Edmund Russell and Julie M. Stocker, "Hands-On Ethics: Experiences with Cases in the Classroom," *1996 ASEE Annual Conference Proceedings* (Washington: American Society for Engineering Education, 1996), Session 1661 on CD-ROM.
- Edmund Russell, "Science and the Environment," in Henry Steffens (editor), *Topical Essays for Teachers* (Seattle: History of Science Society, 1995), 111-134.
- Estrella Fernandez, John Batten, and Edmund Russell. "Radio Support for the People's School," *Rural Reconstruction Review* 4 (1982): 45-46.

Other Publications

- Sally Fairfax and Edmund Russell, "Introduction," in Sally K. Fairfax and Edmund Russell (editors), *CQ Guide to U. S. Environmental Policy* (Washington, DC: CQ Press, 2014), 1-5
- Ernst Pöppel, Mihai Avram, Yan Bao, Verena Graupmann, Evgeny Gutyrchik, Aline Lutz, Mona Park, Maximilian Reiser, Edmund Russell, Sarita Silveira, Lukasz Smigielski, Caroline Szymanski, and Yuliya Zaytseva, "Sensory Processing of Art as a Unique Window into Cognitive Mechanisms: Evidence from Behavioral Experiments and fMRI Studies," *Procedia—Social and Behavioral Sciences* 86 (2013): 10-17.
- Edmund Russell, "Evolutionary History: Prospectus for a New Field," in J. R. McNeill and Alan Roe, *Global Environmental History: An Introductory Reader* (London: Routledge, 2013), 139-165 (reprint of 2003 article in *Environmental History*).
- Edmund Russell, "Evolution and the Environment," in J. R. McNeill and Erin Stewart Mauldin (editors), *A Companion to Global Environmental History* (Malden, MA: Wiley-Blackwell, 2012), 377-393.
- Edmund Russell (editor), *Environment, Culture, and the Brain: New Explorations in Neurohistory* (Munich, Germany: Rachel Carson Center, 2012).
- Edmund Russell, "How Can Neurohistory Help Us Understand the Past?" in Edmund Russell (editor), *Environment, Culture, and the Brain: New Explorations in Neurohistory* (Munich, Germany: Rachel Carson Center, 2012), 9-13.
- Edmund Russell, reply to reviewers in roundtable on *Evolutionary History*, H-Environment Review Roundtable 2 (no. 3, 2012), <https://www.h-net.org/~environ/roundtables/env-roundtable-2-3.pdf>.
- Edmund Russell, "What is Environmental History?" in Kathleen A. Brosnan (editor), *Encyclopedia of American Environmental History* (New York: Facts on File, 2011), 7-14.
- Edmund Russell, "Afterword - Militarized Landscapes: Concluding Reflections," in Chris Pearson, Peter Coates, and Tim Cole (editors), *Militarized Landscapes: From Gettysburg to Salisbury Plain* (New York: Continuum, 2010), 229-237.
- Edmund Russell, "Fauna: A Prospectus for Evolutionary History," in Douglas Cazaux Sackman (editor), *A Companion to American Environmental History* (Malden, MA: Wiley-Blackwell, 2010), 345-374.

- Edmund Russell, "Everyday Evolution," in Jessica R. Feldman and Robert Stilling (editors), *What Should I Read Next?* (Charlottesville: University of Virginia Press, 2008), 89-91.
- Review of Richard W. Bulliet, *Hunters, Herders, and Hamburgers: The Past and Future of Human-Animal Relationships* (New York: Columbia University Press, 2005), *Technology and Culture* 48 (2007): 182-184.
- Review of Lorraine Dunston and Fernando Vidal (editors), *The Moral Authority of Nature* (Chicago: University of Chicago Press, 2004), *European History Quarterly* 37 (no. 1, 2007): 12-14.
- Edmund Russell, "The Michael Vicks of Yore," *Washington Post*, 2 September 2007, B2.
- Edmund Russell, "Blame 19th-Century Britons for Dogfights," *Atlanta Journal-Constitution*, 7 September 2007, A13.
- Review of Shepard Krech, III, J. R. McNeill, and Carolyn Merchant (editors), *Encyclopedia of World Environmental History* (New York: Routledge, 2004), *Environmental History* 10 (January 2005): 119-121.
- Review of Mary J. Henninger-Voss (editor), *Animals in Human Histories: The Mirror of Nature and Culture* (Rochester, New York: University of Rochester Press, 2002), and of Angela N. H. Creager and William Chester Jordan, *The Animal/Human Boundary: Historical Perspectives* (Rochester, New York: University of Rochester Press, 2002), *History* 90 (January 2005): 115-116.
- Edmund Russell, "Science and Environmental History," *Environmental History* 10 (January 2005): 80-82.
- Edmund Russell, "Chemicals in the Field: Author's Response" (part of review symposium on *War and Nature*), *Metascience* 12 (March 2003): 21-23.
- Edmund Russell, "Declare Peace in the War on the West Nile Virus," Opinion-Editorial piece under various titles in *Atlanta Constitution*, 8 November 2000; *Hartford Courant*, 12 November 2000; *Fredericksburg Free Lance-Star*, 12 November 2000; *Northern New Jersey Record*, 7 November 2000.
- Review of Jessica Wang, *American Science in an Age of Anxiety: Scientists, Anticommunism, and the Cold War*, *Technology and Culture* (Chapel Hill: University of North Carolina Press, 1999), *Technology and Culture* 41 (January 2000): 161-162.
- Review of Richard C. Sawyer, *To Make a Spotless Orange: Biological Control in California*, (Ames: Iowa State University Press, 1996), *Journal of the History of Biology* 31 (Spring 1998): 147-149.
- Review of Barton Hacker, *Elements of Controversy: The Atomic Energy Commission and Radiation Safety in Nuclear Weapons Testing 1947-1974* (Berkeley: University of California Press, 1994), *Environmental History Review* 19 (Winter 1995): 83-84.
- Review of Sheldon H. Harris, *Factories of Death: Japanese Biological Warfare 1932-45 and the American Cover-Up* (New York: Routledge, 1994), *Journal of American History* 82 (June 1995): 322-323.
- Review of Barend ter Haar, *The Future of Biological Weapons* (New York: Praeger, 1991), *Environmental History Review* 16 (Summer 1992): 102-103.
- Norma Callanta and Edmund Russell, "Learning the Needs of the Landless," *Rural Reconstruction Review* 4 (1982): 12-13.
- Edmund Russell, "Stoves for Adlas," *AT/80* 1 (1982): 14-15.

- Edmund Russell and Lyn N. Capistrano, *Lorena: Ang Kalang Matipid sa Gatong* (Silang, Cavite, Philippines: International Institute of Rural Reconstruction, 1982).
- Edmund Russell and Jackie Sadler, *Mabuhay: A Guide for Volunteers at IIRR* (Silang, Cavite, Philippines: International Institute of Rural Reconstruction, 1982).
- Edmund Russell, "Evaluating a Program Based on People's Needs," *Rural Reconstruction Review* 4 (1982): 7-9.
- Edmund Russell, "The Colombian Rural Reconstruction Movement," *Rural Reconstruction Review* 3 (1981): 70-72.

Research Funding

- Buckner W. Clay Award in the Humanities, University of Virginia, \$8000, 2012.
- National Science Foundation, "Planning Committee: Transformation of Undergraduate Curricula in Energy" (DUE-1226492), \$24,980, 2012. Principal investigator: John Perkins. Co-principal investigators: Edmund Russell, Catherine Middlecamp, David Blockstein.
- Rachel Carson Center of the Ludwig Maximilians University and Deutsches Museum, Munich, Germany, fellowship of 35,000 euro, 2010-2011.
- National Science Foundation. "Rethinking Technology, Nature, and Society: A Research and Training Program" (SES-0241889), \$282,819, 2004-2007. Principal investigator: W. Bernard Carlson. Co-principal investigators: John K. Brown and Edmund Russell.
- National Science Foundation. "The Garden in the Machine: The Adaptation of Canine Biotechnology and Human Society" (SES-0220764), \$110,000, 2002-2005. Principal investigator.
- National Science Foundation CAREER Award. "War and Nature: Science, Technology and Metaphor" (SBER95-11726), \$45,000, 1995-1999. Principal investigator.
- University of Michigan. Block Grants, 1988, 1989, and 1992.
- University of Michigan. Dissertation Enhancement Grant. 1990.
- University of Michigan. Dean of Graduate Studies Discretionary Funds, 1989, 1993.
- University of Michigan. Population and Environmental Dynamics Project Grant, 1989.
- University of Michigan. Matthaei Botanical Garden Grant, 1988.

Invited Lectures and Seminars

- "Spinning their Way into History: Silkworms, Mulberries, and Manufacturing Landscapes," Keynote address, conference on "Manufacturing Landscapes: Nature and Technology in Environmental History," Renmin University and Rachel Carson Center, Beijing, China, May, 2015.
- "Coevolutionary History," Hobart and William Smith Colleges, Geneva, New York, April 2015 (as the Melvyn Hill Fellow).
- "Coevolutionary History," SUNY-Cortland, Cortland, New York, February 2015 (Organization of American Historians Distinguished Lectureship)
- "Coevolutionary History," Science, Technology, and Society Colloquium, University of Michigan, Ann Arbor, Michigan, November 2014.
- "Coevolutionary History," Science, Technology, and Society Colloquium, Virginia Commonwealth University, Richmond, Virginia, October 2014.

- “Fast Dogs and Englishmen: The Coevolution of Greyhounds, Lurcher, and Whippets with Aristocrats, Middle Classes, and Workers in England, 1500-1900,” Department of Science, Technology, and Environment Colloquium, Royal Institute of Technology, Stockholm, January 2104.
- “Coevolutionary History,” Agrarian Studies Colloquium, Yale University, New Haven, Connecticut, October 2013.
- “Evolutionary History: The Industrial Revolution, Tuskless Elephants, and How Biology Can Help Us Understand Our Past,” Allman Family Lecture, Southern Methodist University, Dallas, Texas, February 2013.
- “The Impact of *Silent Spring*,” Rachel Carson Council and American Bird Conservancy Conference on “50 Years after *Silent Spring*,” Patuxent, Maryland, September 2012.
- “Weapons of Warfare: World War I,” American history teachers, Rockford Public Schools, Rockford, Illinois, March 2012 (Organization of American Historians Distinguished Lectureship)
- “An Explorer’s Notebook: Evolution, Cognition, and the Use of Science in History,” Yale University, New Haven, Connecticut, February 2012
- “Drawing on Darwin: *Evolutionary History* and the Use of Science in History,” Carnegie Mellon University, Pittsburgh, February 2012
- “Neurohistory: A New Field for Historians?” Social Psychology Colloquium, Ludwig Maximilians University, Munich, Germany, May 2011
- “Evolution of the Industrial Revolution: Amerindians, New World Cottons, and Mechanization of the English Cotton Industry.” Alpen Adria Universität, Vienna, Austria, May 2011.
- “Neurohistory: A New Field for Historians?” Deutsches Museum, Munich, Germany, May 2011.
- “Neurohistory: A New Field for Historians?” Rachel Carson Center, Munich, Germany, April 2011.
- “Evolution of the Industrial Revolution: Amerindians, New World Cottons, and Mechanization of the English Cotton Industry.” Royal Institute of Technology, Stockholm, Sweden, March 2011.
- “War and Nature: Parallels between Fighting Humans and Fighting Insects.” DARPA Defense Science Office Speaker Series on Bioterrorism, Arlington, Virginia, July 2010.
- “The Evolution of the Industrial Revolution: New World Cottons and Mechanization of the English Cotton Industry.” École des Hautes Études en Sciences Sociales, Paris, France, June 2009.
- “The History of American Conservation.” Featured Speaker for conference on “Conservation 2.0: Conservation in the Greater Yellowstone: Past, Present, and Future,” Jackson, Wyoming, May 2008.
- “The Fierce, the Fleet, and the Fancy: How Gambling Shaped the Evolution of dogs in Nineteenth-Century Britain.” Delbert McQuaide Distinguished Lecture, Juniata College, Huntingdon, Pennsylvania, April 2007.
- “The Fierce, the Fleet, and the Fancy: How Gambling, Society, and Dogs Coevolved in Nineteenth Century Britain.” President’s Lecture, University of British Columbia, March 2007.

- “The Fierce, the Fleet, and the Fancy: How Gambling, Class Relations, and Dogs Coevolved in Nineteenth Century Britain.” Virginia Tech, April 2006.
- “The Fierce, the Fleet, and the Fancy: How Gambling, Class Relations, and Dogs Coevolved in Nineteenth Century Britain.” University of Kansas, February 2006.
- “The Fierce, the Fleet, and the Fancy: How Gambling, Class Relations, and Dogs Coevolved in Nineteenth Century Britain.” University of Oklahoma, February 2006.
- “Blood, Sweat, and Tears: Dogs as Gambling Technology in Nineteenth-Century Britain.” Massachusetts Institute of Technology, 2005.
- “War and Nature: Fighting Humans and Insects from World War I to Silent Spring.” University of Connecticut, 2003.
- “War and Nature: Fighting Humans and Insects from World War I to Silent Spring.” University of Utrecht, Netherlands, 2003.
- “Let Slip the Dogs of Yore: Key Words and Canine Breeding in 19th Century Britain.” University of Utrecht, Netherlands, 2003.
- “Blood, Sweat, and Tears: Dog Fighting, Baiting, and Working Class Culture since 1800.” Cambridge University, England, 2003.
- “Let Slip the Dogs of Yore: Key Words and Canine Breeding in 19th Century Britain.” Cambridge University, England, 2003.
- “Evolutionary History: Prospectus for a New Field.” Cambridge University, England, 2002.
- “An Anatomy of Organismal Technology.” Rutgers University, New Brunswick New Jersey, 2002.
- “Dog Breeding and the Role of Evolution in History,” Virginia Tech, Blacksburg, Virginia, 2001.
- “A History of DDT—A War on Insects.” Household Hazardous Waste Conference sponsored by Kansas Department of Health and Environment, Wichita, Kansas, 2000.
- “Already Homeward Bound: The Enduring Legacy of World War II.” Carnegie Mellon University, Pittsburgh, Pennsylvania, 1999.
- “‘Speaking of Annihilation’: Mobilizing for War against Human and Insect Enemies, 1914-1945.” University of North Carolina-Wilmington, Wilmington, North Carolina, 1996.
- “‘Speaking of Annihilation’: Mobilizing for War against Human and Insect Enemies, 1914-1945.” Virginia Tech, Blacksburg, Virginia, 1995.
- “From Pollution to Risk: Ecological Protection and Regulatory Paradigms at the Environmental Protection Agency.” United States Environmental Protection Agency, Washington, DC, 1995.
- “From Pollution to Risk: American Culture and Regulatory Philosophies at the United States Environmental Protection Agency, 1970-1990.” Stanford University, Stanford, California, 1994.
- “Swords and Ploughshares: Chemical Weapons, Insecticides, and Technological Change, 1914-1945.” Johns Hopkins University, Baltimore, Maryland, 1993.
- “Swords and Ploughshares: Chemical Weapons, Insecticides, and Technological Change, 1914-1945.” National Air and Space Museum, Washington, DC, 1993.

- “The Miracle of DDT in World War II.” University of Pennsylvania, Philadelphia, Pennsylvania, 1992.
- “What Made DDT Miraculous in World War II?” National Museum of American History, Washington, DC, 1991.
- “Tritrophic Interactions in Rice.” University of the Philippines-Los Baños, Los Baños, Philippines, 1990.
- “Perils of Pesticides.” Michigan State University, East Lansing, Michigan, 1988.

Conference Presentations

- “Capitalism, Environment, and Technology,” Science with Passion and a Moral Compass: Symposium Honoring John Vandermeer, Ann Arbor, Michigan, May 2016.
- “History in a Brain Scanner: How a Historian and Neuroscientists Studied the Impact of Environments on Brains Using Functional Magnetic Resonance Imaging,” American Society for Environmental History, Seattle, April 2016.
- “Evolutionary Fine Tuning: Adapting Greyhounds to Hunting, Gambling, and Private Coursing,” American Society for Environmental History, Washington, DC, March 2015.
- “Neurohistory of Environments: Synthesizing History and Neuroscience to Understand the Past and Present,” European Society for Environmental History, Munich, Germany, August 2013.
- Roundtable participant, “Edmund Russell’s *Evolutionary History*: A Critical Appraisal,” American Society for Environmental History, Toronto, April 2013.
- “A Taste of Combat: How the Coevolution of Grapes and Yeast with Bacteria, Fungi, Insects, and Mammals Shaped the Traits of Wine,” American Historical Association, New Orleans, January 2013
- “Paradigms of Change: Why Some Concepts are More Useful than Others,” American Society for Environmental History, Madison, Wisconsin, March 2012.
- “Concluding Remarks,” Neurohistory: How Can Neuroscience Help Us Understand the Past? Rachel Carson Center, Munich, Germany, June 2011.
- “Neurohistory: A New Field for Historians?” New Approaches in Environmental History, Rachel Carson Center, Munich, Germany, April 2011.
- “The Evolution of the Industrial Revolution: New World Cottons, Amerindians, and Mechanization of the English Cotton Industry.” American Society for Environmental History, Portland, Oregon, March 2010.
- “Dissecting the Life of an Everyday Consumer Product: *Charging a Generation: Red Bull Revealed*.” Humanities and Technology Association, Charlottesville, September 2009.
- “When Elections Go to the Dogs: How Parliamentary Politics Drove Canine Evolution in England in the Nineteenth Century.” World Congress of Environmental History, Copenhagen, Denmark, August 2009.
- “Concluding Remarks,” Militarized Landscapes conference, University of Bristol, September 2008.
- “Urban Evolution: Dogs in English Cities in the 19th Century.” American Society for Environmental History, Boise, Idaho, March 2008.
- “Organisms and the History of Technology.” Society for the History of Technology, Washington, DC, October 2007.

- “From Genesis to Genetics: The Evolution of Ideas about Origins of Dogs and Dog Breeds in Britain and the USA.” European Society for Environmental History, Amsterdam, June 2007.
- Presenter (representing *Environmental History*), “ESEH Posthumus Publishing Workshop.” European Society for Environmental History, Amsterdam, June 2007.
- “The Incredible Evolving Dog: Making an Animal Modern.” Society for the History of Technology, Las Vegas, October 2006.
- “Natural Knowledge: Roundtable on the Histories of Science and the Environment.” American Society for Environmental History, St. Paul, MN, March 2006.
- “Nicking the Thin Edge of the Wedge: What History Suggests about the Environmental Law of War.” Environmental Letters/Environmental Law Conference, University of Virginia Law School, 2005.
- Presenter, “Roundtable: At the Intersection of Environmental History and the History of Technology: Themes, Methods, and Directions.” Society for the History of Technology, Minneapolis, MN, November 2005.
- “Working Like a Dog: Harnessing Canine Energy in Nineteenth-Century Britain.” American Society for Environmental History, Houston, 2005.
- “Illegal Biotechnology: Lurchers and Poachers in Nineteenth-Century Britain.” Society for the History of Technology, Amsterdam, 2004.
- “Blood, Sweat, and Tears: Dogs as Gambling Technology in Nineteenth Century Britain.” American Society for Environmental History, Victoria, British Columbia, 2004.
- “From Tools to Toys: Dog Breeding in Victorian England and United States.” American Society for Environmental History, Denver, Colorado, 2002.
- “Waging War on the West Nile Virus: What the Past Tells Us about the Potential of History to Inform Present Policy.” European Society for Environmental History, St. Andrews, Scotland, 2001.
- “Getting Real: The Challenges of Using Written Products of Undergraduate Research to Achieve Multiple Educational Goals” (with Kathryn Neeley, Donald E. Brown, Michael E. Gorman, and William T. Scherer). American Society for Engineering Education, Albuquerque, New Mexico, 2001.
- “Genes and Machines (Or, Why We Need to Think about Evolution and Technology).” American Society for Environmental History, Durham, North Carolina, 2001.
- “Environmental History at the University of Virginia.” American Society for Engineering Education, Charlotte, North Carolina, 1999.
- “Prevention and Escalation: Chemical Arms Races against Communists and Insects during the Cold War.” Society for the History of Technology, Baltimore, 1998.
- “University-Wide Collaboration: The Committee on the History of Technology and Environment at the University of Virginia.” American Society for Engineering Education, Seattle, Washington, 1998.
- “From Front Halls to Front Pages: Rhetoric of Insecticides in the United States, 1920-1929.” International Congress of History of Science, Liege, Belgium, 1997.
- “Hot War in the Cold War: Mobilizing for Chemical Warfare on Human and Insect Enemies in the 1950s.” Organization of American Historians, San Francisco, California, 1997 (session organizer).

- “Continued Battle of the Home Front: Total War and Pest Control in the United States, 1945-1949.” American Society for Environmental History, Baltimore, Maryland, 1997 (session organizer).
- “Hands-On Ethics: Experiences with Cases in the Classroom” (with Julie M. Stocker). American Society for Engineering Education, Washington, DC, 1996 (session organizer).
- “Pollution to Risk: Regulatory Philosophies at the United States Environmental Protection Agency, 1970-1990.” American Society for Environmental History, Las Vegas, Nevada, 1995.
- “Food or Foe: Drawing Cultural Boundaries Around Locusts of the Great Plains.” American Studies Association, Nashville, Tennessee, 1994.
- “Swords and Plowshares: Chemical Weapons, Insecticides, and Environmental Change.” Society for the History of Technology, Washington, DC, 1993 (session organizer).
- “Atomic Bomb of the Insect World: Rachel Carson, Insecticides, and the Rhetoric of Risk.” Conference on “Danger, Risk, and Safety,” Hagley Museum, Wilmington, Delaware, 1993.
- “Safe for Whom? Safe for What? Testing Insecticides and Repellents in World War II,” American Society for Environmental History. Pittsburgh, Pennsylvania, 1993.
- “Warfare against the Insects’: Economic Entomology in the United States Department of Agriculture before World War II.” Society for Agriculture and Human Values, East Lansing, Michigan, 1992.

Conference Posters

- E. Gutyrchik, L. Smigielski, J. Blautzik, M. Reiser, E. Pöppel, and E. Russell, “What Does ‘Well-Making’ Environment Mean for the Brain? An fMRI Study.” European Brain and Behavior Society Meeting, Seville, Spain, September 2011.

Conference Sessions Chaired or Commented Upon

- Chair, “History and Biology: Doing History with Biology,” American Historical Association, New York, January 2015.
- Chair, “Pivots of History? Narratives of Change and Continuity in Disaster History,” American Society for Environmental History, San Francisco, March 2014.
- Chair, “The Differentiation between Useful and Companion Animals in Modern Germany,” European Society for Environmental History, Munich, Germany, August 2013.
- Chair, “Greening the Grim Fields: Land Restoration and the Environmental Legacies of War,” European Society for Environmental History, Munich, Germany, August 2013.
- Roundtable moderator, “Thinking Outside the Box: Interdisciplinary Approaches to Graduate School,” American Society for Environmental History, Toronto, April 2013.
- Chair, “Insects in Environmental History II: Pests and the Role of the State,” American Society for Environmental History, Madison, Wisconsin, March 2012.
- Chair, “Environmental Dreams,” Society for the History of Technology, Cleveland, Ohio, November 2011.
- Chair and Commenter, “The Instability of Technological Identities,” Society for the History of Technology, Pittsburgh, October 2009.

- Chair, "World War II and the Cold War in the US, Britain, and Czechoslovakia," World Congress of Environmental History, Copenhagen, Denmark, August 2009.
- Chair, "Engineering Nature," Society for the History of Technology, Lisbon, Portugal, October 2008.
- Chair, "Jumbo Crosses the Pond: The Multiple Meanings of Zoos in Europe and North America in the Late Nineteenth Century and Beyond." American Society for Environmental History, Boise, Idaho, March 2008.
- Chair, "Technology and the Environment" (workshop sponsored by National Science Foundation). Society for the History of Technology." Washington, DC, October 2007.
- Chair, "Blurring the Boundaries between the Natural and Unnatural (II): Designing Ecosystems." Society for the History of Technology, Washington, DC, October 2007.
- Chair, "Making a Knowledge Professional?" Society for the History of Technology, Las Vegas, October 2006.
- Commenter, "Compromise in Comparative Perspective: The Environment and Labor." Miller Center Fellows Conference, University of Virginia, May 2006.
- Chair, "Under the Microscope: Biology, Technology, and Society." Virginia Festival of the Book, Charlottesville, VA, March 2006.
- Chair and Commenter, "Environmental Policy." Society for the History of Technology, Atlanta, Georgia, 2003.
- Chair, "Postwar Development and Environmental History: The Overlapping Politics of Conservation and Preservation." Organization of American Historians, Washington, DC, 2002.
- Commenter, "Ecology and Technology." Society for the History of Technology, San Jose, California, 2001.
- Chair, "Teaching Environmental History: A Roundtable Discussion of Practical and Conceptual Issues." American Society for Environmental History, Durham, North Carolina, 2001.
- Chair, "Pioneering or Paying: Choices in Research and Development." Society for the History of Technology, Munich, Germany, 2000.
- Commenter, "Creating Technological Landscapes." Society for the History of Technology, Munich, Germany, 2000.
- Chair, "Biomedical Technology and Ethics I: Philosophical Perspectives on Choosing and Regulating Technology." Humanities and Technology Association, Charlottesville, Virginia, 2000.
- Commenter, "The Price of Commodification." University of Delaware Hagley Fellows Conference on Consumption and the Environment, Hagley Museum, Wilmington, Delaware, 2001.
- Chair, "Technology, Culture, and the Environment." Society for the History of Technology, Pasadena, California, 1997.
- Commenter, "Environmental Policy after Earth Day." American Society for Environmental History, Baltimore, Maryland, 1997.
- Moderator, "Ethics and Design: A Case Study Approach." American Society for Engineering Education, Washington, DC, 1996.

Chair, "Envisioning Nature: The Politics of Observation." American Society for Environmental History, Las Vegas, Nevada, 1995.

Commenter, "Environment." Society for Social Studies of Science, Charlottesville, Virginia, 1995.

Service to Department and School

Member, Faculty Executive Committee, Department of History, 2015-2017.

Member, Development Committee, Department of History, 2013-2014.

Chair, Tenure and Promotion Review Committee, Department of History, 2013-2014.

Director, University of Virginia Science and Technology Policy Internship Program, 2004-2009.

Coordinator, Science and Technology Policy Minor, University of Virginia, 2005-2010.

Member, Committee on Academic Standards, SEAS, University of Virginia, 2009-2011.

Chair, Graduate Committee, Department of Science, Technology, and Society, University of Virginia, 2006.

Coordinator, Senior Thesis Course Sequence (STS 401-402), School of Engineering and Applied Science, University of Virginia, 2003-2004.

Chair, Senior Thesis Course Sequence (TCC 401-402) Advisory Committee, School of Engineering and Applied Science, University of Virginia, 2003-2004.

Member, Graduate Affairs Committee, School of Engineering and Applied Science, University of Virginia, 2003-2004.

Member then Chair, Engineering Business and Public Policy Minors Committee, School of Engineering and Applied Science, University of Virginia, 2003-2004

Member, Search Committee for Olsson Chair in Ethics, University of Virginia, 2000-2001.

Member, Search Committee for Chair of Division of Technology, Culture, and Communication, University of Virginia, 1999-2000.

Chair, SEAS Common Reading Experience Committee, University of Virginia, 1999-2000; member, 1995-2001.

Member, Teaching Effectiveness Committee, School of Engineering and Applied Science, University of Virginia, 1997-2001.

Member, Outstanding Graduate Teaching Assistant Award Selection Committee, School of Engineering and Applied Science, University of Virginia, 1999, 2005.

Service to University

Chair, Honorary Degrees Committee, University of Kansas, 2015-present (member, 2013-2014).

Chair, Five Year Review Committee, Institute for Policy and Social Research, 2014.

Member, Steering Committee, Council of Distinguished Professors, University of Kansas, 2013-2016.

Member, Faculty Implementation Committee for the University of Virginia Batten School for Leadership and Public Policy, 2007-2010.

Member, Selection Committee, Miller Center Fellows, University of Virginia, 2004-2005.

Member, Advisory Committee, Forum for Contemporary Thought, University of Virginia, 2001-2004.

Co-director, Forum for Contemporary Thought, University of Virginia, 2000-2001.
Member, Advisory Committee, Program in Environmental Thought and Practice
(previously Environmental Literacy Initiative), University of Virginia, 1999-
present.
Member, Search Committee, Postdoctoral Fellow in the History of Technology and
Environment, University of Virginia, 1997, 2001, 2004.
Member, Committee on the History of Technology and Environment, University of
Virginia, 1997-present.
Member, Selection Committee, University of Virginia Teaching Fellows Award, 1997.
Member, Selection Committee, Phi Beta Kappa Book Award, University of Virginia,
1995.

Service to Profession

Vice President, American Historical Association, with responsibility for the Research
Division, 2015-2017.
Co-chair, search committee, editor of *American Historical Review*, 2014-2015.
Member, Editorial Board, *Environmental History* (2013-2017)
Co-editor, Studies in Environment and History book series, Cambridge University Press
(2012-present).
Member, Executive Council, Society for the History of Technology, 2006-2009.
Chair, Search Committee for Secretary, Society for the History of Technology, 2007.
Chair and member, Edelstein Prize Committee, Society for the History of Technology,
2006-2008 (chair 2007).
Member, Da Vinci Prize Committee, Society for the History of Technology, 2007.
Member, Board of Editors, *Encyclopedia of American Environmental History*, 2005-
2011.
Member, Advisory Board, *Technology and Culture*, 2001-2006.
Editor, Book Reviews, *Environmental History*, 2001- 2005.
Member, United States National Committee for the International Union for the History
and Philosophy of Science, 2001-2003.
Chair, Program Committee, American Society for Environmental History Meeting,
Tucson, 1999.
Member, Local Arrangements Committee, Society for the History of Technology
Meeting, 1995.

Referee

Ambix

American Studies

Cambridge University Press

Council for the Humanities of Netherlands, Organization for Scientific Research

Environment and History

Environmental History

Environmental Entomology

German Historical Institute

Harvard University Press

International Information and Library Review

Isis

Journal of American History

Mosaic

National Institutes of Health

National Science Foundation

Oxford University Press

Revue d'Histoire de l'Amérique Française

Social Sciences and Humanities Research Council of Canada

Technology and Culture

University of Virginia Press

University of Washington Press

University of Wisconsin Press

Mass Media Appearances

Interview on *Evolutionary History* with Robert M. Wilson for New Books in Geography and New Books in History, 11 March 2015, <http://newbooksingeography.com/> and <http://newbooksinhistory.com/>

Brian McNeill, "U.S. Dogfighting Rooted in English Tradition," *Charlottesville VA Daily Progress*, 29 August 2007, A1, A9.

Interview on Dog Fighting, "Charlottesville—Right Now," WINA, Charlottesville VA, 21 September 2007.

Interview on Dog Fighting, "RadioTimes with Marty Moss-Coane," WHYY, Philadelphia, 22 August 2007 (available at WHYY.org).

Interview, "'Russell on War and Nature,'" Talking History, 13 May 2004, <http://www.albany.edu/talkinghistory/>

Interview on Boll Weevil Eradication, Morning Edition, National Public Radio, broadcast 7 July 2003.

Interview on History of Pest Control, *With Good Reason*, broadcast 5-11 May 2001 on public radio stations throughout Virginia and Washington, DC.

Interview on *War and Nature*, *Charlottesville Live*, broadcast 17 April 2001 on WINA radio, Charlottesville, Virginia.

Quoted in "Chemical Reaction," *Charlottesville Daily Progress*, 5 December 2000.

Quoted in "Tech Boom Gives MIT New Cachet," *Boston Globe*, 13 March 2000.

Interview on DDT,"Morning Edition, National Public Radio, 16 September 1999.

Professional Societies

American Historical Association

American Society for Environmental History

European Society for Environmental History

Organization of American Historians

Society for the History of Technology

Courses Taught

HIEU 2559-502: Evolutionary History of Mediterranean Foods (undergraduate)

HIST/EVRN 103: Environment and History (undergraduate)

HIST 301: The Historian's Craft (undergraduate)

HIST/EVEN 347: North American Environmental History (undergraduate)
HIST 407: History of Science in the United States (undergraduate)
HIST 696: Food in History (undergraduate)
HIST 720: History of Environment and Technology (graduate)
HIST 720: Environmental History of the United States and Britain (graduate)
HIST 723: Global Environmental History (graduate)
HIST 2559: Global Environmental History (undergraduate)
HIST 802: Research Seminar in History (graduate)
HIUS 702: Introductory Colloquium in American History (graduate)
STS 200: Nature and Technology in British History (undergraduate)
STS 206/HIUS 271: American Environmental History (undergraduate)
STS 101: Language Communication in the Technological Society (undergraduate)
STS 300/500: Science and Technology Policy for Interns (undergraduate/graduate)
STS 401: Western Technology and Culture (undergraduate)
STS 402/4600: The Engineer, Ethics, and Society (undergraduate)
STS 2500: Global Environmental History (undergraduate)
STS 4500: STS and Engineering Practice with global environmental history emphasis (undergraduate)
TCC 799: American Environmental History (graduate)

Graduate Students

Major Professor

Brandon Leudtke, History, University of Kansas, dissertation on whale oil in the U. S., Ph.D. student.

Steven Davis, History, University of Kansas, co-chair with Jennifer Weber, dissertation on environmental history of U. S. Civil War, Ph.D. student.

Amber Roberts Graham, University of Kansas, dissertation on links between ideas of horsemanship and leadership in early modern Britain, Ph.D. student.

Leif Fredrickson, History, University of Virginia, co-chair with Brian Balogh, dissertation on environmental history of Baltimore, Ph.D. student.

Thomas Finger, History, University of Virginia, co-chair with Mark Thomas, "The Engines of Environmental Change: American Agriculture and British Industry, 1800-1900," Ph.D. completed 2015. Assistant professor, Department of History, Northern Arizona University.

Jaime Allison, History, University of Virginia, co-chair with Christian McMillen, "Sovereignty for Survival: American Energy Development and Indian Self-Determination," Ph.D. completed 2013. Assistant professor, Christopher Newport University, Newport News, Virginia.

Bartow Elmore, History, University of Virginia, co-chair with Grace Hale, "Citizen Coke: An Environmental and Political History of the Coca-Cola Company," Ph.D. completed 2012. Assistant professor, Department of History, Ohio State University.

Laura Kolar, History, University of Virginia, co-chair with Brian Balogh, "Conserving the Country in Postwar America: Federal Conservation Policy from Eisenhower to Nixon," Ph.D. completed 2011. Historian, U. S. Department of State.

Eric Stoykovich, History, University of Virginia, co-chair with Peter Onuf, "In the National Interest: Improving Domestic Animals and the Making of the United States, 1815-1870," completed Ph.D. 2009. Historical Manuscript Project Archivist, Special Collections and University Archives, University of Maryland.

Committee member

Brian Rumsey, History, University of Kansas, dissertation on flooding and flood insurance, Ph.D. student.

Angela Lindsey-Nunn, American Studies, University of Kansas, dissertation on epigenetics of trauma, Ph.D. student.

Adam Sundberg, History, University of Kansas, "Floods, Worms, and Cattle Plague: Nature-induced Disaster at the Closing of the Dutch Golden Age, 1672-1764," Ph.D. completed 2015 (will begin tenure track assistant professorship at Creighton University in fall 2015).

Alex Boynton, History, University of Kansas, "Freedom, Tradition, Environmentalism?: Anti-Environmentalism and the Transformation of Conservative Thought in the 1970s," Ph.D. completed 2015.

Joshua Nygren, History, University of Kansas, "Soil, Water, and the State: The Conservation-Industrial Complex and American Agriculture Since 1920," Ph.D. completed 2014 (will begin tenure track assistant professorship at Central Missouri State University in fall 2015).

Stephen Macekura, History, University of Virginia, "Of Limits and Growth: Global Environmentalism and the Rise of "Sustainable Development" in the Twentieth Century," Ph.D. completed 2013 (will begin tenure track assistant professorship at Indiana University in fall 2015).

Evelyn Krache Morris, History, Georgetown University, "Into the Wind: The Kennedy Administration and the Use of Chemicals in Vietnam," Ph.D. completed 2012 (now a postdoctoral fellow at Harvard).

Katherine Tully, Environmental Sciences, University of Virginia, "The Effects of Management and Canopy Tree Functional Type on Nutrient Pools, Retention, and Loss from Coffee Agroforestry Systems in Costa Rica," Ph.D. completed 2011

Philip Herrington, History, University of Virginia, "The Exceptional Plantation: Slavery, Agricultural Reform, and the Creation of an American Landscape, 1837-1864," Ph.D. completed 2012 (now assistant professor of history at James Madison University).

Kathryn Shively Meier, History, University of Virginia, "No Place for the Sick": Nature's War on Civil War Soldier Health in 1862 Virginia," completed Ph.D. 2010 (now assistant professor of history at Virginia Commonwealth University).

Adam Dean, History, University of Virginia, "An Agrarian Republic: How Conflict over Land Use Shaped the Civil War and Reconstruction," Ph.D. completed 2010 (now assistant professor of history, Lynchburg College).

Dolores Jorgensen, History, University of Virginia, "Private Need, Public Order: Urban Sanitation in Late Medieval England and Scandinavia," Ph.D. completed 2008 (now Project Coordinator/Researcher, Department of Ecology & Environmental Science, Umeå University, Sweden).

Patrick Roberts, Politics, University of Virginia, “Crises as Opportunity: Innovation in Federal Homeland Security Agencies, 1946-2004,” Ph.D. completed 2006 (now associate professor in the Center for Public Administration and Policy at Virginia Tech).

Peter Norton, History, University of Virginia, “Fighting Traffic: The Dawn of the Motor Age in the American City,” Ph.D. completed 2002 (now associate professor of Science, Technology, and Society at the University of Virginia).

Paul Milazzo, History, University of Virginia, “Legislating the Solution to Pollution: Congress and the Development of Water Pollution Control Policy, 1945-1972,” Ph.D. completed 2001 (now associate professor of history at Ohio University).

Advisor for University of Virginia Miller Center Dissertation Fellows

Francesca Russello Ammon, Yale (now assistant professor of city planning, University of Pennsylvania), 2010-2011.

Shane Hamilton, MIT (now associate professor of history, University of Georgia), 2004-2005.

Sarah Phillips, Boston University (now associate professor of history, Boston University), 2000-2001.