

Audra J. Wolfe

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EDUCATION

University of Pennsylvania

Ph. D. History and Sociology of Science, August 2002

Dissertation: Speaking for Nature and Nation: Biologists as Public Intellectuals in Cold War Culture

Fields completed May 2000 in History of American Medicine, Biology and Society, and American Social History

M. A., History and Sociology of Science, August 1999

Purdue University

B. S., Biochemistry and Chemistry with honors, 1997

Minors in French and History.

TEACHING EXPERIENCE

Science, Medicine, and the Media, University of Pennsylvania (Seminar, Fall 2008 and 2009)

Cold War Science and Medicine, University of Pennsylvania (Research Seminar, Spring 2010)

EMPLOYMENT

The Outside Reader (www.theoutsidereader.com)

Editorial and Publishing Consulting

Principal, founded March 2009

Chemical Heritage Foundation

Associate Director, Roy Eddleman Institute for Outreach and Interpretation, August 2008 to May 2009

Executive Producer, *Distillations* (podcast), November 2007 to May 2009

Editor in Chief, *Chemical Heritage* magazine, April 2006 to May 2009

Rutgers University Press

Senior Editor, September 2005–February 2006

Editor for the Sciences, January 2003–August 2005

Associate Editor for the Sciences, January 2002–January 2003

University of Pennsylvania Press

Editorial Assistant, July 2001–December 2001

FELLOWSHIPS, GRANTS, AND AWARDS

National Science Foundation, Scholar's Grant, Program in Science, Technology and Society (\$135,000), 2010–2012

Lounsbury Foundation Program Grant, (*Distillations*, \$62,000), 2007–2008

National Science Foundation Graduate Fellowship, 1997–1999, 2000–2001

Othmer Student, Chemical Heritage Foundation, Summer 2000.

William Penn Graduate Fellowship, University of Pennsylvania, 1999–2000

Honorary Mellon Fellow in the Humanistic Studies, 1997–1998

BOOKS

Competing with the Soviets: Science, Technology, and the State in Cold War America (Johns Hopkins University Press, February 2013); winner of the Forum for the History of Science in America's Philip Pauly Prize, 2014

PEER REVIEWED ARTICLES

“The Cold War Context of the Golden Jubilee, Or, Why We Think of Mendel as the Farther of Genetics.” *Journal of the History of Biology* 45 (2012): 389–14.

“What It Means To Go Public: The American Response to Lysenkoism, Reconsidered.” *HSNS* 40 (2010): 48–78.

“Germs in Space: Joshua Lederberg, Exobiology, and the Public Imagination, 1958-1964,” *Isis* 91 (2002): 183–205.

“How Not to Electrocute the Farmer: Assessing Attitudes Toward Electrification on American Farms, 1920-1940.” *Agricultural History* 74 (2000): 515–29.

ESSAYS IN LARGER WORKS

“The Military-Academic-Industrial Complex and the Path Not Taken,” in *The National Security Establishment and the Legacy of Harry S. Truman*, ed. by Ann Heiss and Michael Hogan (Truman State University Press, forthcoming).

“Nylon 6,6.” In *Molecules That Matter*, edited by Raymond J. Giguere. Saratoga Springs: The France Young Tang Teaching Museum and Art Gallery at Skidmore College, 2008.

Entries on six African American chemists and health scientists for the *African American National Biography*, edited by Henry Louis Gates, Jr., and Evelyn Brooks Higginbotham. New York: Oxford University Press, 2008.

Individual entries on James F. Crow; James E. Darnell, Jr.; Rollins A. Emerson; G. D. Karpetchenko; Phoebus Levene; J. Heinrich Matthaei; Franz Moewus; Arthur Pardee; George Harrison Shull; Tracy Sonneborn, and Social Implications of the Human Genome

Project. *World of Genetics*, edited by K. L. Lerner and B. W. Lerner. New York: Gale Cengage, 2001.

“Federal Policy for Biotechnology: Executive Branch: ELSI.” *Encyclopedia of Ethical, Legal, and Policy Issues in Biotechnology*, edited by Thomas J. Murray and Maxwell J. Mehlman, 234-240. New York: Wiley, 2000.

NON-ACADEMIC MEDIA (PRINTED, ONLINE, AND SOUND)

[“Why Cosmos Can’t Save Public Support for Science.”](#) *Atlantic*, March 11, 2014.

[“Monkeys and moon rovers and Mars, oh my?”](#) *The Guardian’s* Political Science blog, December 23, 2013.

[“Defending Cold War Science.”](#) *Berfrois*, August 28, 2013.

[“Science Diplomacy Works, But Only When It’s Genuine.”](#) *The Guardian’s* Political Science blog, August 23, 2013.

[“1955 Map Shows No-Go Zones for Soviet Travelers.”](#) Slate.com’s Vault blog, May 15, 2013.

[“When Agriculture Was a State Secret.”](#) *Modern Farmer* blog, April 28, 2013.

Founder and Executive Producer, *Distillations*, a biweekly podcast of the Chemical Heritage Foundation, 2007–2009. <http://chemheritage.org/distillations>.

Frequent short articles and book reviews for *Chemical Heritage* magazine, Fall 2006–Fall 2009.

“The Gene Cure.” *Lawrentian*, Spring 2005. (Feature article on five alumni of the Lawrenceville School.)

“Bentley Glass, Century’s Son,” *Mendel Newsletter*, n.s. 12 (2003). Available online at <http://www.amphilsoc.org/mendel/2003.htm#wolfe>.

REVIEWS

[“The Partnership Behind the Pill.”](#) Review of Jonathan Eig, *The Birth of the Pill: How Four Crusaders Reinvented Sex and Launched a Revolution* (W. W. Norton, 2014). *C&EN* 92 (September 22, 2014), pp. 32–33.

“Giving Philanthropy a New History.” Review of Nick Cullather, *The Hungry World: America’s Cold War Battle Against Hunger in Asia* (Harvard University Press, 2010); Inderjeet Parmar, *Foundations of the American Century: The Ford, Carnegie, and Rockefeller Foundations in the Rise of American Power* (Columbia University Press, 2012); Brent Ruswick, *Almost Worthy: The Poor, Paupers, and the Science of Charity in America*,

1877–1917 (Indiana University Press, 2013); and Olivier Zunz, *Philanthropy in America: A History* (Princeton University Press, 2012). *HSNS* 43 (2013): 619–630.

[“The Unloved Naturalist.”](#) Review of Christoph Irscher, *Louis Agassiz: Creator of American Science* (Houghton Mifflin Harcourt, 2013). *C&EN* 91 (May 20, 2013): 35–36.

“The Price of Objectivity.” Review of Mark Solovey, *Shaky Foundations: The Politics–Patronage–Social Science Nexus in Cold War America* (New Brunswick: Rutgers University Press, 2013). *Science* 339 (29 March 2013): 1524–25.

“The Organization Man and the Archive: A Look at the Bentley Glass Papers.” *Journal of the History of Biology* 44 (2011): 147–51.

Review of Hugh Richard Slotten, *Radio’s Hidden Voice: The Origins of Public Broadcasting in the United States* (Urbana: University of Illinois Press, 2009). *Technology and Culture* 51 (2010): 1050–51.

“It’s a Small World After All.” Review of Idan Ben-Barak, *The Invisible Kingdom: From the Tips of Our Fingers to the Top of Our Trash, The Hidden World of Microbes* (New York: Basic Books, 2008). *C&EN* 87 (12 October 2009): 57–58.

“The Unbearable Lightness of Genius.” Review of Steven Johnson, *The Invention of Air: A Story of Science, Faith, Revolution, and the Birth of America* (New York: Riverhead Books, 2008). *Endeavor* 33, 3 (2009): 81.

“Unsafe at any Speed.” Review of Nicolas Rasmussen, *On Speed: The Many Lives of Amphetamines* (New York: New York University Press, 2009). *C&EN* 87 (29 June 2009): 34–35.

“Faulty Transmission.” Review of Marcel C. LaFollette, *Science on the Air: Popularizers and Personalities on Radio and Early Television* (Chicago: University of Chicago Press, 2008). *Science* 323(2009): 584–85.

“Innovators and Iconoclasts.” Review of Oren Harman and Michael R. Dietrich, *Rebels, Mavericks, and Heretics in Biology* (New Haven: Yale University Press, 2008). *American Scientist* 97 (January/February 2009): 77–78.

“The Organisms That Made It All Possible.” Review of Jim Endersby, *A Guinea Pig’s History of Biology* (Cambridge: Harvard University Press, 2007). *American Scientist* 96 (September/October 2008): 423–24.

“Protesting Scientists.” Review of Kelly Moore, *Disrupting Science: Social Movements, American Scientists, and the Politics of the Military, 1945–1975* (Princeton: Princeton University Press, 2008). *Science* 320 (2008): 747.

- Review of John Rudolph, *Scientists in the Classroom: The Cold War Reconstruction of American Science Education* (New York: Palgrave, 2002). *Isis* 94 (2003): 767–68.
- Review of Franklin W. Stahl, ed., *We Can Sleep Later: Alfred D. Hershey and the Origins of Molecular Biology* (Cold Spring Harbor: Cold Spring Harbor Laboratory Press, 2000). *Isis* 93 (2002): 133.
- Review of Shane Crotty, *Ahead of the Curve: David Baltimore's Life in Science* (Berkeley: University of California Press, 2001). *Journal of the History of Biology* 34 (2001): 615–16.
- Review of Allan A. Needell, *Science, Cold War, and the American State: Lloyd V. Berkner and the Balance of Professional Ideals* (Amsterdam: Harwood Academic Publishers, 2000). *History and Technology* 17 (2001): 389–92.
- “Physics, Meet Fiction.” Review of John Canaday, *The Nuclear Muse: Literature, Physics, and the First Atomic Bomb* (Madison: University of Wisconsin Press, 2000). *Metascience* 2002.
- Microreview of Edward Teller, *Memoirs: A Twentieth-Century Journey in Science and Politics* (New York: Perseus, 2001). *Boston Review*, December 2001/January 2002.
- “ELSI's Revenge.” Essay review of Lily Kay, *Who Wrote the Book of Life? A History of the Genetic Code*; Celeste Michelle Condit, *The Meanings of the Gene: Public Debates About Human Heredity*; Phillip R. Sloan et. al., *Controlling Our Destinies: Historical, Philosophical, Ethical, and Theological Perspectives on the Human Genome Project*; and James D. Watson, *A Passion for DNA: Genes, Genomes, and Society*. *Journal of the History of Biology* 34 (2001): 183-93.
- “Culturing American Life.” Review of Philip J. Pauly, *Biologists and the Promise of American Life* (Princeton: Princeton University Press, 2000). *Science* 291 (2001): 1907-1908. Review of Herbert Gottweis, *Governing Molecules: The Discursive Politics of Genetic Engineering in Europe and the United States* (Cambridge: MIT Press, 1998). *Journal of the History of Biology* 33 (2000): 189-91.
- Review of Ulf Lagerkvist, *DNA Pioneers and Their Legacy* (New Haven: Yale University Press, 1998). *Science Education* (Summer 2000): 682-84.

INVITED PRESENTATIONS

- “Hearts, Minds, and Labs: Science as Cold War Cultural Diplomacy.” Invited talk at the Center for the History of Force and Diplomacy (CENFAD), Temple University, September 30, 2014.

“The Freedom to Live a Scientific Life: Anticommunism and the Shaping of American Scientific Identity.” Invited talk at the Bowdoin College “Social Politics and the Cold War” Symposium, May 1–2, 2014.

“The Military-Industrial-Complex.” Invited talk at the Truman Legacy Symposium, Key West, Florida, May 18, 2013.

“Science and Presidential Elections.” Invited public lecture sponsored by the Philadelphia Area Center for the History of Science, Philadelphia, Pennsylvania, October 23, 2012.

Invited Panel Speaker, “The Whys of Publishing.” History of Science Society Meeting, Cleveland, Ohio, November 4, 2011.

Invited Panel Speaker, “Careers in Chemistry Symposium,” Rider University, May 2, 2009.

Invited Panel Speaker, Roundtable/Workshop on “Electronic Scholarship and the History of Science, Technology, and Medicine,” History of Science Society, Pittsburgh, Pennsylvania, November 2008.

Invited Panel Speaker on Publishing, Rochester Institute of Technology, 2002.

Invited Panel Speaker, Session on “Editorial Firefighting,” Association of American University Presses, Tampa, Florida, June 2002.

“Biology and Liberty for All: The Biological Sciences Curriculum Study.” Invited talk at the University of Delaware Brown Bag Lunch Seminar, April 9, 2002.

CONFERENCE SESSIONS

“What’s in a Zone? Biological Order versus National Identity in the Biological Sciences Curriculum Study.” “The Life Sciences after World War II” Symposium, University of Pittsburgh, May 16–17, 2014.

“Textbook Diplomacy: The Biological Sciences Curriculum Study Abroad.” History of Science Society Meeting, Boston, Massachusetts, November 22, 2013.

“Private to Public: The Apollo-Soyuz Test Project and the Changing Character of American Scientific Diplomacy.” Three Societies Meeting, Philadelphia, Pennsylvania, July 13, 2012.

“Science, Freedom, and the American Way.” Forth Annual U. S. Intellectual History Conference, New York, November 2011; and the International Congress for the History of Science, Medicine, and Technology, Manchester, UK, July 2013.

“The Geneticist and the Archive: Bentley Glass and the Crafting of the Legacy of American Eugenics.” The Study of Eugenics Workshop, Upsalla, Sweden, November 11, 2011.

“The Public Biologist: Media, Politics, and Policy in the Cold War.” International Society for the History, Philosophy, and Social Studies of Biology, Salt Lake City, Utah, July 14, 2011.

“Between Popularization and Policy: Biological Scientists as Public Intellectuals, 1945-1972.” Third Annual U. S. Intellectual History Conference, New York, October 2010.

“Commemoration as Political Weapon, Or, Why We Think of Mendel as the Father of Genetics,” International Workshop on Lysenkoism, CUNY Graduate Center, December 4–5, 2009.

Session Organizer, “From Drake’s Wells to Solar Cells,” American Association for the Advancement of Science, Chicago, Illinois, February 2009.

“Learning from Lysenko.” Chemical Heritage Foundation Brown Bag Lunch Series, September 25, 2007.

“Biology and Liberty for All: The Biological Sciences Curriculum Study.” Presented at the History of Science Society Meeting, Denver, Colorado, November 9, 2001.

“Ensuring Scientific Validity: American Life Scientists in National Space Policy, 1958-1962.” Presented at the Cold War Science, Technology and Medicine: Global Perspectives Conference, Philadelphia, November 2000.

“Protecting Turf (Literally): Negotiating the Meanings of Exobiology at the Dawn of the Space Age.” Presented at the History of Science Society Meeting, Vancouver, November 2000.

“Exobiology, Space Science, and American National Prestige, 1957-1962.” Invited talk at the Chemical Heritage Foundation Brown Bag Lunch Series, September 25, 2000.

“It Came From Mars: The Rhetorical Construction of Exobiology as the Life Science of Space.” Presented at the Joint Atlantic Seminar for the History of Biology, Princeton, New Jersey, April 2000.

Commentary on Daniel Kevles, “Patenting Human Genes: The Advent of Ethics in the Political Economy of Patent Law.” Delivered at the Max-Planck-Institut für Wissenschaftsgeschichte Summer Academy on Science, Technology and the Law, Berlin, August 1999.

“‘How Not to Electrocute the Farmer’: Assessing Attitudes Towards Electrification on American Farms, 1920-1940.” Presented at the 80th Annual Agricultural History Society Meeting, Mississippi State, Mississippi, June 1999.

“Of Body Fluids and Biotechnology: Control of Human Cells and the Law.” Presented at the Joint Atlantic Seminar in the History of Biology, Philadelphia, Pennsylvania, April 1999.

“The Human Genome Diversity Project and Traditions of Salvage Anthropology.” Presented at the 30th Annual CHEIRON Society for the History of the Social Sciences Meeting, San Diego, California, June 1998.

OTHER PROFESSIONAL ACTIVITIES

Council, History of Science Society (2015–2017)

Editorial Board, *Synthesis*, University of Chicago Press and the Chemical Heritage Foundation, 2007–present.

Reviewer, National Science Foundation, Program in Science, Technology, and Society.

Program Committee, Society for the History of Technology, 2012–2014 (Chair, 2013).

Committee on Research and the Profession, History of Science Society, 2009–2014 (Chair, 2013).

Council, Forum for the History of Science in America (2012–2014).

Nominating Committee, Section L (History of Science), American Association for the Advancement of Science, 2008–2011.

Committee on Honors and Prizes, History of Science Society, 2006–2009 (Chair, 2008–2009).

Conference Coordinator, *Cold War Science, Technology, and Medicine: Global Perspectives*, November 2000.

Co-organizer, Second Annual Mid-Atlantic Graduate Conference in the History of Science, Medicine, and Technology, University of Pennsylvania, August 6-8, 1999.

PROFESSIONAL MEMBERSHIPS

History of Science Society

National Association of Science Writers

National Book Critics' Circle

Organization of American Historians

Society for the History of American Foreign Relations