

History of American Science – Prelim Reading List

Yellow: both read

Green: Amrys

Red: Megan

Classics, overviews, and syntheses

1. Bruce, Robert. *The Launching of Modern American Science* (New York: Knopf, 1987) [SHS: Q127 U6 B78]
2. Daniels, George. *American Science in the Age of Jackson* (New York: Columbia University Press, 1968) [Q127 U6 D3]
3. Kohlstedt, Sally Gregory, and Margaret Rossiter, eds. *Historical Writing on American Science*. (Baltimore: Johns Hopkins University Press, 1985) [Q127 U6 H54]
4. Numbers & Rosenberg, eds. *The Scientific Enterprise in America: Readings from Isis*. (Chicago: University of Chicago Press, 1996) [Q127 U6 S34; COLL, H-SCI]
5. Reingold, Nathan. *Science, American Style*. (New Brunswick: Rutgers University Press, 1991) [Q127 U6 R397]
6. Rosenberg, Charles. *No Other Gods: On Science and American Social Thought* (Baltimore: Johns Hopkins University Press, 1976).

Science in the Colonies

7. Chaplin, Joyce. *Subject Matter: Technology, the Body, and Science on the Anglo-American Frontier, 1500-1676* (Cambridge: Harvard University Press, 2001).
8. Chaplin, Joyce. *The First Scientific American: Benjamin Franklin and the Pursuit of Genius* (New York: Perseus, 2006).
9. Greene, John. *American Science in the Age of Jefferson* (Ames: Iowa State University Press, 1984).
10. Hindle, Brooke. *The Pursuit of Science in Revolutionary America, 1735-1789*. (Chapel Hill: University of North Carolina Press, 1956) [Q127 U6 H5]
11. McGaw, Judith, ed. *Early American Technology: Making and Doing Things from the Colonial Era to 1850* (Chapel Hill: University of North Carolina Press for the Institute of Early American History and Culture, 1994).
12. Stearns, Raymond. *Science in the British Colonies of America*. (Urbana, University of Illinois Press, 1970).
13. Struik, Dirk Jan. *Yankee Science in the Making: Science and Engineering in New England from Colonial Times to the Civil War* (New York: Dover Publications, 1991).

Nature's Nation

14. Bartlett, Richard A. *Great Surveys of the American West*. Norman, Oklahoma: University of Oklahoma Press, 1962. [CUT??]
15. Blum, Ann Shelby. *Picturing Nature: American Nineteenth-Century Zoological Illustration*. (Princeton: Princeton University Press, 1993) [QL46.5 B58]
16. Burnett, D. Graham. *Trying Leviathan: The Nineteenth-Century New York Court Case That Put the Whale on Trial and Challenged the Order of Nature*: Princeton University Press, 2007.
17. Campbell, Robert Bruce. *In Darkest Alaska: Travels and Empire Along the Inside Passage*. University of Pennsylvania Press, 2007.
18. Cutright, Paul Russell, and Michael J. Brodhead. *Elliott Coues: Naturalist and Frontier Historian*. Urbana, Ill.: University of Illinois Press, 1981.
19. Cutright, Paul Russell. *Lewis and Clark, Pioneering Naturalists*. Urbana: University of Illinois Press, 1969.
20. Goetzmann, William H. *Army Exploration in the American West, 1803-1863*, Yale Publications in American Studies ; 4;. New Haven: Yale University Press, 1959.
21. Goetzmann, William. *Exploration and Empire: The Explorer and the Scientist in the Winning of the American West* (New York: Knopf, 1966).
22. Kastner, Joseph. *A Species of Eternity*. New York: Knopf, 1977.
23. Keeney, Elizabeth. *The Botanizers: Amateur Scientists in Nineteenth-Century America*. (Chapel Hill: University of North Carolina Press, 1985) [QK46.5 B66 K44; BIO]
24. Kohler, Robert E. *All Creatures: Naturalists, Collectors, and Biodiversity, 1850-1950*. Princeton, N.J.: Princeton University Press, 2006.
25. Marx, Leo. *The Machine in the Garden: Technology and the Pastoral Ideal in America* (New York: Oxford University Press, 2000).
26. Novak, Barbara. *Nature and Culture: American Landscape and Painting, 1825-1875*. (New York: Oxford University Press, 1996).
27. Orosz, Joel. *Curators and Culture: The Museum Movement in America, 1740-1870*. (Tuscaloosa: University of Alabama Press, 1990) [SHS: AM11 O76]
28. Porter, Charlotte M. *The Eagle's Nest: Natural History and American Idea, 1812-1842* (Tuscaloosa: University of Alabama Press, 1986).
29. Sachs, Aaron. *The Humboldt Current: Nineteenth-Century Exploration and the Roots of American Environmentalism*. New York: Viking, 2006.
30. Sloten, Hugh Richard. *Patronage, Practice, and the Culture of American Science: Alexander Dallas Bache and the U.S. Coast Survey*. (New York: Cambridge University Press, 1994) [Q172.52 U5 S57]
31. Stegner, Wallace. *Beyond the Hundredth Meridian: John Wesley Powell and the Second Opening of the American West*

32. Tinling, Marion. *With Women's Eyes: Visitors to the New World, 1775-1918*. Hamden, Conn.: Archon Books, 1993.
33. Walls, Laura. *Seeing New Worlds: Henry David Thoreau and Nineteenth-Century Natural Science*. (Madison: University of Wisconsin Press, 1995).
34. Welch, Margaret. *The Book of Nature: Natural History in the United States 1825-1875* (Boston: Northeastern University Press, 1998).
35. Worster, Donald. *A River Running West: The Life of John Wesley Powell*. (New York: Oxford University Press, 2001).

The Professionalization of American Science

36. Barrow, Mark. *A passion for birds : American ornithology after Audubon* (Princeton: Princeton University Press, 1998).
37. Dupree, A. Hunter. *Science in the Federal Government: A History of Policies and Activities to 1940* (Cambridge: Harvard University Press, 1957, 1986).
38. Fleming, James R. *Meteorology in America, 1800-1870* (Baltimore: Johns Hopkins University Press, 1990). [GEO: QC857 U6 F54]
39. Jonas, Gerald. *The Circuit Riders: Rockefeller Money and the Rise of Modern Science* (New York: Norton, 1989).
40. Kevles, Daniel. *The Physicists: The History of a Scientific Community in Modern America* (New York: Knopf, 1977).
41. Kohler, Robert. *Partners in Science: Foundations and the Natural Sciences, 1900-1945* (Chicago: University of Chicago Press, 1991).
42. Kohlstedt, Sally Gregory. *The Formation of the American Scientific Community: The American Association for the Advancement of Science, 1848-1860*. (Urbana: University of Illinois Press, 1976) [Q11 A53 K63]
43. Richard A. Overfield, *Science with Practice: Charles E. Bessey and the Maturing of American Botany* (Ames: Iowa State University Press, 1993).
44. Lankford, John. *American Astronomy: Community, Careers, and Power, 1859-1940* (Chicago: University of Chicago Press, 1997).
45. Margaret Rossiter, *The Emergence of Agricultural Science: Justus Liebig and the Americans* (New Haven: Yale University Press, 1975).
46. Rossiter, Margaret. *Women Scientists in America: Struggles and Strategies to 1940* (Baltimore: Johns Hopkins University Press, 1995).
47. Veysey, Laurence R. *The Emergence of the American University* (Chicago: University of Chicago Press, 1965).

American Biology

48. Appel, Toby. *Shaping Biology: The National Science Foundation and American Biological Research, 1945-1975* (Baltimore: Johns Hopkins University Press, 2000). LEAST IMPORTANT OF WEEK
49. Benson, Keith, Jane Maienschein, and Ronald Rainger. *The Expansion of American Biology* (New Brunswick & London: Rutgers University Press, 1991).
50. Fitzgerald, Deborah. *The Business of Breeding: Hybrid Corn in Illinois, 1890-1940* (Ithaca: Cornell University Press, 1990).
51. Kay, Lily. *The Molecular Vision of Life: Caltech, the Rockefeller Institution, and the Rise of the New Biology* (Oxford: Oxford University Press, 1993).
52. Kenneth Manning, *Black Apollo of Science: The Life of Ernest Everett Just* (New York: Oxford University Press, 1983).
53. Maienschein, Jane. *Transforming Traditions in American Biology, 1880-1915* (Baltimore: Johns Hopkins University Press, 1991).
54. Pauly, Philip. *Controlling Life: Jacques Loeb and the Engineering Ideal in Biology* (New York: Oxford University Press, 1987).
55. Pauly, Philip. *Biologists and the Promise of American Life: From Meriweather Lewis to Kinsey* (Princeton: Princeton University Press, 2000).
56. Philip J. Pauly, *Fruits and Plains: The Horticultural Transformation of America* (Cambridge: Harvard University Press, 2007). SKIM
57. Rainger, Ronald. *An Agenda for Antiquity: Henry Fairfield Osborn and Vertebrate Paleontology at the American Museum of Natural History, 1890-1935* (Tuscaloosa: University of Alabama Press, 1991).
58. Rainger, Ronald, Keith Benson, and Jane Maienschein. *The American Development of Biology* (Philadelphia: University of Pennsylvania Press, 1988).
59. Rasmussen, Nicolas. *Picture Control: The Electron Microscope and the Transformation of Biology in America, 1940-1960* (Stanford: Stanford University Press, 1997).
60. Winsor, Mary P. *Reading the Shape of Nature: Comparative Zoology at the Agassiz Museum* (Chicago: University of Chicago Press, 1991).

Ecology and Environmentalism

61. Beeman, Randal S. and James A. Pritchard. *A Green and Permanent Land: Ecology and Agriculture in the Twentieth Century* (Lawrence: University of Kansas Press, 2001).
62. Bocking, Stephen. *Ecologists and Environmental Politics: A History of Contemporary Ecology* (New Haven: Yale University Press, 1997).
63. Dann, Kevin. *Across the Great Border Fault: the Naturalist Myth in America* (New Brunswick: Rutgers University Press, 2000).
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64. Dunlap, Thomas R. *DDT: Scientists, Citizens, and Public Policy* (Princeton: Princeton University Press, 1981).
65. Dunlap, Thomas. *Saving America's Wildlife: Ecology and the American Mind, 1850-1990* (Princeton: Princeton University Press, 1997).
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67. Kingsland, Sharon. *The Evolution of American Ecology, 1890-2000*. Baltimore: Johns Hopkins University Press, 2005.
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69. Kroll, Gary. *America's Ocean Wilderness: A Cultural History of Twentieth-Century Exploration* (Lawrence: University of Kansas Press, 2008)
70. Meine, Curt. *Aldo Leopold: His Life and His Work* (UW Ph.D. Thesis, 1988).
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71. Mitman, Gregg. *The State of Nature: Ecology, Community, and American Social Thought, 1900-1950* (Chicago: Chicago University Press, 1992).
72. Russell, Edmund. *War and Nature: Fighting Humans and Insects with Chemicals from World War I to Silent Spring* (Cambridge: Cambridge University Press, 2001).
73. Smith, Michael. *Pacific Visions: California Scientists and the Environment, 1850-1915* (New Haven: Yale University Press, 1987).
74. Tobey, *Saving the Prairies: The Life Cycle of the Founding School of American Plant Ecology, 1895-1955* (Berkeley: University of California Press, 1981).
75. Worster, Donald. *Nature's Economy: A History of Ecological Ideas* (Cambridge: University of Cambridge Press, 1994).

Social Science, Race, and Eugenics

76. Bannister, Robert C. *Social Darwinism and Myth in Anglo-American Social Thought* (Temple University Press, 1979).
77. Barkan, Elazar. *The Retreat of Scientific Racism: Changing Concepts of Race in Britain and the United States between the World Wars* (New York: Cambridge University Press, 1992).
78. Buckley, Kerry. *Mechanical Man: John Broadus Watson and the Beginnings of Behaviorism* (New York: Guilford Books, 1989).
79. Cravens, Hamilton. *The Triumph of Evolution: American Scientists and the Heredity-Environment Controversy, 1900-1941* (Philadelphia: University of Pennsylvania Press, 1978). [QH438.5 C7]
80. Haraway, Donna. *Primate Visions: Gender, Race, and Nature in the World of Modern Science* (New York: Routledge, 1989).

81. Hinsley, Curtis M., Jr. *Savages and Scientists: The Smithsonian Institution and the Development of American Anthropology, 1846-1910* (Washington: Smithsonian Institution Press, 1981).
82. Hofstadter, Richard. *Social Darwinism in American Thought*, revised ed. (New York: G. Braziller, 1959). [HM22 U5 H6].
83. Igo, Sarah. *The Averaged American: Surveys, Citizens, and the Making of a Mass Public* (Cambridge: Harvard University Press, 2006).
84. Kevles, Daniel J. *In the Name of Eugenics: Genetics and the Uses of Human Heredity* (Knopf, 1985).
85. Ross, Dorothy. *The Origins of American Social Science* (Cambridge: Ambridge University Press, 1991).
86. Smith, Neil. *American Empire: Roosevelt's Geographer and the Prelude to Globalization* (Berkeley: University of California Press, 2003).
87. Stanton, William. *The Leopard's Spots: Scientific Attitudes toward Race in America, 1815-1859* (Chicago: University of Chicago Press, 1960).
88. Stocking, George. *Race, Culture, and Evolution: Essays in the History of Anthropology* (Chicago: University of Chicago Press, 1982).

Science and Religion

89. Gilbert, James. *Redeeming Culture: American Religion in an Age of Science* (Chicago: University of Chicago Press, 1997).
90. Hollinger, David. *Science, Jews, and Secular Culture: Studies in Mid-Twentieth-Century American Intellectual History* (Princeton: Princeton University Press, 1996) [E134 J5 H646]
91. Larson, Edward J. *Summer for the Gods: the Scopes Trial and America's Continuing Debate over Science and Religion* (New York: Basic Books, 1997).
92. Moore, *The Post-Darwinian Controversies: A Study of the Protestant Struggle to Come to Terms with Darwin in Great Britain and America, 1870-1900.* (Chicago: University of Chicago Press: 1979).
93. Numbers, Ronald L. *Creation by Natural Law: Laplace's Nebular Hypothesis in American Thought* (Seattle: University of Washington Press, 1977).
94. Numbers, Ronald. *The Creationists* (New York: Knopf, 1992).
95. Number, Ronald L. *Darwinism Comes to America* (Cambridge: Harvard University Press, 1998).

Science and Its Publics

96. Kuznick, Peter J. *Beyond the Laboratory: Scientists as Political Activists in 1930s America* (Chicago: University of Chicago Press, 1987).

97. LaFollette, Marcel. *Making Science Our Own: Public Images of Science, 1910-1955*. (Chicago: University of Chicago Press, 1990) [Q225 L34]
98. Mitman, Gregg. *Reel Nature: America's Romance with Wildlife on Film* (Cambridge: Harvard University Press, 1999).
99. Nelkin, Dorothy. *Selling Science: How the Press Covers Science and Technology* (W.H. Freeman, 1987).
100. Rydell, Robert. *All the World's a Fair: Visions of Empire at American International Expositions, 1876-1916*. (Chicago: University of Chicago Press, 1984) [T395.5 U6 R93]
101. Toby, Ronald. *The American Ideology of National Science: 1919-1930* (Pittsburgh: University of Pittsburgh Press: 1971). [Q127 U6 T6]

Science and Technology

102. Cowan, Ruth Schwartz. *A Social History of American Technology* (Oxford: Oxford University Press, 1997).
103. Cowan, Ruth Schwartz. *More Work for Mother (?)*.
104. Hughes, Thomas. *American Genesis: A Century of Invention and Technological Enthusiasm, 1870-1970* (New York: Viking, 1989).
105. Noble, David F. *America by Design: Science, Technology and the Rise of Corporate Capitalism* (1977)
106. Purcell, Carroll. *The Machine in America: A Social History of Technology* (Baltimore: Johns Hopkins University Press, 1995).

Science and the National Security State

107. Boyer, By the Bomb's Early Light: *American Thought and Culture at the Dawn of the Atomic Age* (New York: Pantheon Books, 1985).
108. Edwards, Paul. *The Closed World: Computers and the Politics of Discourse in Cold War America* (Cambridge: MIT Press, 1996).
109. Heims, Steven J. *The Cybernetics Group* (Cambridge: M.I.T. Press, 1991).
110. Hershberg, James B. *Conant: Harvard to Hiroshima and the Making of the Nuclear Age* (Stanford: Stanford University Press, 1995).
111. Leslie, Stuart. *The Cold War and American Science: the Military-Industrial-Academic Complex at MIT and Stanford* (NY: Columbia University Press, 1993).
112. Lindee, Susan. *Suffering Made Real: American Science and the Survivors at Hiroshima* (Chicago: University of Chicago Press, 1994).
113. McDougall, Walter. *The Heavens and the Earth: A Political History of the Space Age* (New York: Basic Books, 1985).

114. Perkins, John. *Geopolitics and the Green Revolution: Wheat, Genes, and the Cold War* (New York: Oxford University Press, 1997).
115. Rhodes, Richard. *The Making of the Atomic Bomb* (Simon and Schuster, 1986).
116. Rhodes, Richard. *Dark Sun: The Making of the Hydrogen Bomb* (Simon and Schuster, 1995).
117. Smith, Robert. *The Space Telescope: A Study of NASA, Science, Technology, and Politics* (New York: Cambridge University Press, 1993).
118. Wang, Jessica. *American Science in an Age of Anxiety: Scientists, Anticommunism, and the Cold War* (Chapel Hill: University of North Carolina Press, 1999).
119. Weart, Spencer. *Nuclear Fear: A History of Images* (Cambridge: Harvard University Press, 1988).

Science and Medicine

120. Brandt, Allan. *The Cigarette Century: The Rise, Fall, and Deadly Persistence of the Product that Defined America* (New York: Basic Books, 2007).
121. Brandt, Allan. *No Magic Bullet: A Social History of Venereal Disease in the United States since 1880* (New York: Oxford University Press, 1985).
122. Harden, Victoria. *Inventing the NIH: Federal Biomedical Research Policy, 1887-1937* (Baltimore: Johns Hopkins University Press, 1986).
123. Leavitt, Judith Waltzer. *Brought to Bed: Childbearing in America, 1750-1950* (New York: Oxford University Press, 1986).
124. ———, *The Healthiest City: Milwaukee and the Politics of Health Reform* (Princeton: Princeton University Press, 1982).
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126. Gerald Markowitz and David Rosner, *Deceit and Denial: The Deadly Politics of Industrial Pollution* (Berkeley: University of California Press, 2002).
127. Gregg Mitman, *Breathing Space: How Allergies Shape Our Lives and Landscapes* (New Haven: Yale University Press, 2007).
128. Numbers, Ronald L. and Judith Walzer Leavitt, eds. *Sickness and Health in America: Readings in the History of Medicine and Public Health*, 3rd edition (Madison: University of Wisconsin Press, 1997).
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