

CHRISTOPHER S. HAMLIN

ADDRESS: 919 Oak Ridge Dr. South Bend, Indiana 46617 (574) 234-1815
Department of History University of Notre Dame Notre Dame, Indiana 46556
(574) 631-5092; fax (574) 631-8209 e-mail: Hamlin.1@nd.edu

EDUCATION:

B.A. Antioch College Earth Sciences 1974
M.A. University of Wisconsin History of Science 1977
Ph.D. University of Wisconsin History of Science 1982

EMPLOYMENT:

1985-Present: University of Notre Dame Department of History, and Program in the History and Philosophy of Science

Professor emeritus, 2021-
Professor, 1998-2021
Associate Professor 1991-1998
Assistant Professor 1985-1991

Assistant Director, Reilly Center for Science, Technology, and Values, 1986-1995
Director, undergraduate Program in Science, Technology, and Values, 1994-1997
Chair, Department of History, 1998-2001
Director of Graduate Studies, Department of History 2008-2010

Responsible for courses in history of science, technology, and medicine, and environmental history

1989-1990: University of Liverpool, Centre for the History of Social Policies, Honorary Research Fellow
1982-1985: Lyman Briggs School, Michigan State University, Assistant Professor, Science and Technology Studies.
1981-1982: University-Industry Research Program, University of Wisconsin-Madison. Science writer. Specialized in engineering, chemistry, physics, biochemistry

HONORS:

University Fellow, University of Wisconsin-Madison, 1980
Joan Cahalin Robinson Prize, Society for the History of Technology, 1981
University of Wisconsin Excellence in Teaching nominee, 1982
Michigan State University Teacher-Scholar Award nominee, 1984
Lilly Teaching Fellow, University of Notre Dame, 1992-93
Heath Clark Lecturer, London School of Hygiene and Tropical Medicine, 1997-98
Honorary Professor, Department of Public Health and Policy, London School of Hygiene and Tropical Medicine, 2003-
AMS Paterson Lecturer, Canadian Society for the History of Medicine, 2004
Gordon Cain Fellow, Chemical Heritage Foundation, 2005-6
Wellcome Fellow, Manchester University, 2010

Hans Kohn Member, School of Historical Studies, Institute for Advanced Study, Princeton, 2013-14
 Peter V. Bryne Lecturer, Depaul University, 2015
 Robert Hudson Lecturer, University of Kansas, Medical School, 2015
 George Rosen Lecturer, Yale University, 2018
 Plenary Lecture, Catalan History of Science Society 2020

BOOKS:

- 1 *What Becomes of Pollution? Adversary Science and Controversy on the Self-Purification of Rivers in Britain, 1850-1900*, Garland Series of Outstanding Dissertations in Modern European History (New York: Garland Press, 1987)
 New edition, Routledge, 2019
- 2 *A Science of Impurity: Water Analysis in Nineteenth Century Britain* (Bristol, England: Adam Hilger, Ltd./Berkeley and Los Angeles: University of California Press, 1990)
- 3 (with Philip T. Shepard), *Deep Disagreement in U.S. Agriculture: Making Sense of Policy Conflict* (Boulder, CO: Westview Press, 1993)
- 4 *Public Health and Social Justice in the Age of Chadwick: Britain, 1800-1854* (Cambridge: Cambridge University Press, 1998)
- 5 (edited book, with David Lodge) *Religion and the New Ecology: Environmental Responsibility in a World of Flux* (Notre Dame: University of Notre Dame Press, 2006)
6. *Cholera: the Biography*. Oxford University Press. 2009 (BMA, Highly Commended)
- 7 Editor volume II: *Sanitary Reform in the Provinces* in Michelle Allen-Emerson, *Sanitary Reform in Victorian Britain: A Primary Resource Collection*, Pickering and Chatto, 2012.
8. *More than HOT: A Short History of Fever*. Johns Hopkins University Press, October 2014.
9. (edited book, with Ian Burney), *Global Forensic Cultures*. Johns Hopkins University Press, 2019.
10. *Trusting Men: Natural Theology in Protestant Europe, 1550-1850, a Reinterpretation for our Times* (14 chapter manuscript), University of Pittsburgh Press, in print.
11. *The Work of Providence: Natural Theology as Technology in England, 1780-1900* (8 chapter manuscript)

ARTICLES and CHAPTERS:

- 1 "Sewage: Waste or Resource? A Historical Perspective," *Environment* 22 no. 8 (October 1980): 16-20, 38-42
- 2 "James Croll, James Geikie and the Eventful Ice Age," *Annals of Science* 39 (1982): 565-83
- 3 "Edward Frankland's Early Career as London's Official Water Analyst, 1865-1876: The Context of

- 'Previous Sewage Contamination,'" *Bulletin of the History of Medicine* 56 (1982): 56-76
- 4 "Recycling as a Goal of Sewage Treatment in Mid-Victorian Britain," in D. Hoke, ed., *The History and Sociology of Technology*; Proceedings of the 24th Annual Meeting of the Society for the History of Technology, Milwaukee, WI, October 14-17, 1981 (Milwaukee: Milwaukee Public Museum, 1982), pp. 299-304 [Robinson Prize Paper]
- 5 Article on "John Strong Newberry" in *Biographical Dictionary of American and Canadian Naturalists and Environmentalists*, (Westport Ct.: Greenwood Press, 1997)
- 6 "Robert Warington and the Moral Economy of the Aquarium," *Journal for the History of Biology* 16 (1986): 131-45
- 7 "Providence and Putrefaction: Victorian Sanitarians and the Natural Theology of Health and Disease," *Victorian Studies* 28 (1985): 381-411. Reprinted in P. Brantlinger, ed. *Energy and Entropy: Victorian Science and Culture* (Bloomington: Indiana University Press, 1988)
- 8 Articles on Max von Pettenkofer, Alcide d'Orbigny for the *Encyclopedia Americana*
- 9 "Scientific Method and Expert Witnessing: Victorian perspectives on a Modern Problem," *Social Studies in Science* 16 (1986): 485-513
- 10 [with Philip T. Shepard] "How not to Presume: Toward a Descriptive Theory of Ideology in Science and Technology Controversy," *Science, Technology, and Human Values*, 12 no. 2 (Spring 1987): 19-28
- 11 "William Dibdin and the Idea of Biological Sewage Treatment," *Technology and Culture* 29 (1988): 189-218
- 12 "Muddling in Bumbledom: Local Governments and Large Sanitary Improvements, the Cases of Four British Towns, 1855-1885," *Victorian Studies* 32 (1988): 55-83
- 13 "Politics and Germ Theories: The Metropolitan Water Commissions of 1867-9 and 1892-4," in Roy MacLeod, ed., *Government and Expertise in Britain, 1815-1919*, (Cambridge University Press, 1988), pp. 110-27
- 14 "Chemistry, Medicine, and the Legitimization of English Spas, 1740-1840," in R. Porter ed., *The Medical History of Waters and Spas, Medical History Supplement #10* (London: Wellcome Institute, 1990), pp. 67-81
- 15 "Green Meanings: Thoughts about What Sustainable Agriculture might Sustain," *Science as Culture*, #13 (1991): 507-37.
- 16 "Concepts of Predisposing Causes in the Early Nineteenth Century Public Health Movement," *Social History of Medicine*, 5 (1992): 43-70.
- 17 "Edwin Chadwick and the Engineers, 1842-1854: Systems and Anti-Systems in the Pipe-and-Brick Sewers War," *Technology and Culture*, 33 (1992) 680-709.
- 18 "Between Knowledge and Action: Themes in the History of Environmental Chemistry" in S. Mauskopf, ed., *Chemical Sciences in the Modern World* (Philadelphia: University of Pennsylvania Press, 1993), 295-321.
- 19 "State Medicine in Britain" in D. Porter ed., *Public Health and the Modern State: National Contexts Compared* (Amsterdam: Rudolphi, 1994), 132-164.
- 20 Reflexivity in Technology Studies: Toward a Technology of Technology (and Science)?, *Social Studies in Science*, 22 (1992): 511-44
- 21 Chapter on "Water" in K. F. Kiple, Ed., *The Cambridge History of Human Nutrition* (1999)
- 22 "James Newlands and the Bounds of Public Health," *Trans., Historic Society of Lancashire and Cheshire* 143 (1994): 117-39.
- 23 "Environmental Sensibility in Edinburgh, 1839-1840: The 'Fetid Irrigation' Controversy," *Journal of Urban History* 20 (1994): 311-39.
- 24 "Could You Starve to Death in England in 1839? The Chadwick-Farr Controversy and the Narrowing of Public Health." *American Journal for Public Health*, 85 #6 (1995) 857-66.
- 25 "Edwin Chadwick, 'Mutton Medicine,' and the Fever Question" *Bulletin of the History of Medicine*

70 (1996): 233-65.

26 "Comment on Tesh, Miasma and Social Factors in the Early Public Health Movement," *Journal of Health Politics, Policy, and Law* 20 #6 (1995): 1025-31.

27 Articles on Sir John Simon, Charles Murchison, Henry Letheby, Robert Warrington, August Dupre, J. A. Wanklyn, George Wigner, Henry Austin, Robert Angus Smith, James Newlands for the *New Dictionary of National Biography*.

29 "Historical Considerations with Regard to the Impact of Knowledge and Action on Water Quality Related Behaviour" in J.O. Drangert, R. Swiderski, and M. Woodhouse, eds., *Safe Water Environments*, Proceedings of a Conference, Eldoret, Kenya, August 1995 (Linköping, Sweden: Linköping University Department of Water and Environmental Studies, Report #24, 1996)

30 with S. Sheard, "Revolutions in public health: 1848, and 1998?" *British Medical Journal*, 1998;317:587-591(29 August 1998)

31 with K Gallagher-Kamper, "Malthus and the Doctors: Political Economy, Medicine, and the State in England, Ireland, and Scotland, 1800-1840" in B. Dolan ed., *Malthus and Medicine* (Amsterdam: Rudolpi, 2000), 115-40

32 "'Waters' or 'Water'? – Master Narratives in Water History and their Implications for Contemporary Water Policy" *Water Policy* 2 (1999/2000) 313-325.

33. "Public Sphere to Public Health: the Transformation of 'Nuisance'," in *Medicine, Health, and the Public Sphere in Britain, 1600-2000* ed. Steve Sturdy (London: Routledge, 2002), 190-204.

34. "Public Health in the Developed World" in the *Oxford Text book of Public Health*, in 4th ed., Roger Detels et al., eds (Oxford: Oxford University Press, 2002), v. 1, 21-37

35. "Overcoming the Myths of the North," *Forum for Applied Research and Public Policy* 16 (2001): 109-14

36. "John Sutherland's Epidemiology of Constitutions," *International Journal of Epidemiology* 32 (2002): 915-19.

37. "Good and Intimate Filth" in *Dirt Disgust, and Modern Life*, Ryan Johnson and William Cohen eds. (Minneapolis: University of Minnesota Press, 2005), 3-29..

38. "Sanitary Policing and the Local State, 1873-74: A Statistical Study of English and Welsh Towns," *Social History of Medicine* 18 (2005): 39-61

39. "Third Wave Science Studies: Toward a History and Philosophy of Expertise?," in Martin Carrier, Don Howard, and Janet Kourany eds., *The Challenge of the Social and the Pressure of Practice: Science and Values Revisited* (Pittsburgh: University of Pittsburgh Press, 2008), 160-185)

40. "The Rise and Fall of the City as Chemical System and of the Chemist as Urban Environmental Professional, 1780-1880" *Journal of Urban History* 30 (2007): 702-28.

41. "William Pulteney Alison, The Scottish Philosophy, and the Making of a Political Medicine," *Journal of the History of Medicine* 61(2006): 144-86

42. "A Virtue-Free Science for Public Policy," essay review, *Minerva* 43 (2005): 397-418

43. "The History of Methods in Social Epidemiology to 1965," in J. Michael Oakes, ed., *Methods in Social Epidemiology* (Jossey Bass, 2005), 21-45.

44. (With David Lodge,) "Beyond Lynn White: Religion, the Contexts of Ecology, and the Flux of Nature," Introduction, in Lodge and Hamlin, eds., *Religion and the New Ecology* (University of Notre Dame Press, 2006), 1-25

45. (With David Lodge,) "Ecology and Religion for a Post Natural World," conclusion, in Lodge and Hamlin, eds., *Religion and the New Ecology* (University of Notre Dame Press, 2006), 279-309.

46 (With John McGreevy), "The Greening of America, Catholic Style, 1930-1950," *Environmental History* 11 (2006): 464-93.

47. "Games Editors Played or Knowledge Readers Made?," essay review, *Isis* 96 (4) (2006) :

633-42.

48. "Just Don't Call it Science," essay review, *Minerva*, 46 (2008): 99-116.

49. "The 'Necessaries of Life' in British Political Medicine, 1750-1850," *Journal of Consumer Policy* 29 (2006): 373-97.

50. with Stephen Silliman, Pam Crane, and Moussa Boukari, "International Collaborations and Incorporating the Social Sciences in Research in Hydrology and Hydrologic Engineering," *ASCE Journal of Hydrologic Engineering* 13 no 1 (2008): 13-19.

51. "Two Tales of One City," essay review of Steven Johnson, *The Ghost Map*, and Sandra Hempel, *The Strange Case of the Broad Street Pump: John Snow and the Mystery of Cholera*, *American Scientist* May-June 2007, 263-6.

52. "STS: Where the Marxist Critique of Capitalist Science goes to Die?," *Science as Culture* 16: 4 (2007): 467 – 474.

53. "The history and development of public health in developed countries," *Oxford Textbook of Public Health*, 5th ed., Roger Detels et al. eds., v. 1, pp. 20-38

54. "The Health of Towns Association," for *Oxford Dictionary of National Biography*.

55. "A Time of Air and Place", essay review of Jan Golinski, *British Weather and the Climate of Enlightenment* and of Charles Withers, *Placing the Enlightenment*, *Annals of Science* 66 (2009): 129 - 134

56. "The Fate of 'The Fate of Medical Police'," invited commentary, *Centaurs* 50 (2008) 63-9.

57. "Ackerknecht and Anticontagionism: a Tale of Two Dichotomies," *International Journal of Epidemiology* 38 (2009): 22-27

58. "Is all Justice Environmental?" *Environmental Justice* 1 (2008): 145-7

59. "Public Health," for Mark Jackson, ed., *The Oxford Handbook for the History of Medicine* (Oxford: Oxford University Press, 2011), 411-28

60. "Deep Doo-Doo" essay review of Rose George, *The Big Necessity*, M Black and J Fawcett, *The Last Taboo*, and J Benedickson, *The Culture of Flushing*, *American Scientist* 97 (2009): 156-62.

61. "Cholera Forcing and the Myth of the Good Epidemic," *American Journal of Public Health* 99, No. 11 (2009): 1946-1954 .

62. "Environment and Medicine in Ireland," in Virginia Berridge and Martin Gorsky eds., *Environment, Health, and History* (London: Palgrave, 2011), 45-63.

63. "The Cholera Stigma and the Challenge of Interdisciplinary Epistemology: From Bengal to Haiti" *Science as Culture* 21 (2012): 445-74.

64. "Charles Kingsley: from Being Green to Green Being," *Victorian Studies* 54 (2012): 255-81.

65. "Bacteriology as a Cultural System; Analysis and its Discontents" *History of Science* 49 (2011): 269–298

66. "Nuisances and Community in mid-Victorian England: the Attractions of Inspection," *Social History* 38 (2013): 346-379.

67. "Surgeon Orton and the Pathology of Deadly Air: the search for Context," in James Fleming and Ann Johnson eds, *Deadly Airs: Environmental Histories of the Atmosphere* (University of Pittsburgh Press, 2014, 23-49.

68. "Forensic Cultures in Historical Perspective: Technologies of Witness, Testimony, Judgment (and Justice?)," *Studies in the History and Philosophy of the Biological Sciences* 44 (2013): 4-15.

69. "Making Water History Wet," submitted to *Radical History Review*, 2012.

70. "The history and development of public health in developed countries," *Oxford Textbook of Public Health*, 6th ed., Roger Detels et al. eds., .

71. with Nick Bonneau, "Cholera," for the *Encyclopedia of American Scientific, Medical, and Technological History*
72. "Agency and Authority in Nineteenth-century English Local Government," in Tatjana Tönsmeier and Jörg Ganzenmüller, eds. *Vom Vorrücken des Staates in die Fläche: Ein europäisches Phänomen des langen 19. Jahrhunderts* (Cologne: Böhlau, 2015), 199-224.
73. "Long-Term Ecological Research over the Long-Term: an Historian's Perspective," in Lawrence Walker and Michael Willig, eds., *Long-Term Ecological Research* (Oxford: Oxford University Press, 2015), 423-32
74. "Public Health," in *Discoveries in Modern Science: Exploration, Invention, Technology*. Ed. James Trefil. Farmington Hills: Macmillan, 2015.
75. with Christopher Baron, "Malaria and the Decline of Ancient Greece: Revisiting the Jones Hypothesis in an Era of Interdisciplinarity" *Minerva* 53 (2015): 327-358.
76. "The Pedagogical Roots of the History of Science: Revisiting the Vision of James Bryant Conant" *Isis* 107 (2016): 282-308.
77. "Turning over the Right Rocks: Finding Legacies of Catholic Environmentalism," in William Cavanaugh ed., *The Fragile World, Ecology and the Church* (Eugene OR: Cascade Books, 2018), 11-32.
78. "Dead and Dying Bodies," chapter 1 in Helen MacDonald, ed., *A Cultural History of Death in the Age of Empire, 1800 to 1920*. v. 5 of *The Cultural History of Death*, ed. Douglas Davies (London: Bloomsbury, forthcoming)
79. "Eloge: John V. Pickstone (1944-2014)," *Isis* 106 (2015): 152-55.
80. "Imagining London's Environment, 1800 to the Present," in Bill Luckin and Peter Thorsheim eds., *The Environmental History of London* (Pittsburgh: University of Pittsburgh Press, 2020), 46-68.
81. "Ecotheology before Ecology and Environmentalism: Reclaiming the Missing Heritage of Natural Theology" in Celia Deane-Drummond and Rebecca Artinian-Kaiser, eds., *Care for our Common Home* (London: T&T Clark, 2018), 25-38.
82. "What is your *Complaint*? Health as Moral Economy in the Long Nineteenth Century," in Sally Shuttleworth, Melissa Dickson, and Emilie Taylor-Brown, eds., *Progress and Pathology: Medicine and Culture in the Nineteenth Century* (Manchester: Manchester University Press, 2020), 295-327.
83. "Forensic Facts, the Guts of Rights: Introduction," in Ian Burney and Christopher Hamlin, eds., *Global Forensic Cultures* (Baltimore: Johns Hopkins University Press, 2019), 3-37
84. "Governing? Systems?," essay review of Tom Crook, *Governing Systems: Modernity and the Making of Public Health in England, 1830-1910*, *Reviews in History*; <https://www.history.ac.uk/reviews/review/2166>
85. "You Say 'Myth' Like It's a Bad Thing," essay review of Review of Ronald L. Numbers and Kostas Kampourakis, *Newton's Apple and other Myths about Science*, *Science & Education* 26 (2017): 191-193
86. "What's Scientific about Forensic Science? Three Versions of American Forensics, 1903-1965, and one Modest Proposal," *Academic Forensic Pathology* 11 (2021): 24-40.
87. "The Evolutionary Potential of Pathogens," Essay review of Daniel R. Brooks, Eric P. Hoberg, and Walter A. Boeger, *The Stockholm Paradigm*, *American Scientist* 108 (2020): 376-8.
88. "How Best to Foster Healthy Behaviors." Essay Review of *LAZY, CRAZY, AND DISGUSTING: Stigma and the Undoing of Global Health* by Alexandra Brewis and Amber Wutich, *American Scientist* 109 (2): 120-1.
89. "So Who Cares? Taking Livingston out of Africa," *Isis* 111 (2020): 805-8.

90. "Trust Me. I'm a Historian of Science," *Actes d' Historia de la Ciència i de la Tècnica* ns 14 (2021): 11-37.
 91. "Wet Dirt: A Phenomenological-Historical Foundation for Green Sanitation as Environmental Justice," *City and Environment Interactions*, preprint <https://doi.org/10.1016/j.cacint.2022.100092>.
 92. with Ian A Burney, "History of Forensic Science" in Max M. Houck (ed.), *Encyclopedia of Forensic Sciences*, 3rd. ed. vol. 3, pp. 168–177. (Oxford: Elsevier, 2023).
 93. with Daniel DeLeo, "Care for our Common Home: The Papacy and the Environment," in *The Cambridge History of the Papacy, vol. 3. Civil Society*, eds Joëlle Rollo-Koster, et. al (Cambridge: Cambridge University Press, 2025), 536-572.
 94. "The 'Best of all Breathing?'" *American Journal of Public Health* 114 no. 8 (2024): 796-7.
 95. "Engineering Expertise and Private Bill Procedure in Britain, 1830-1870," *International Journal for the History of Technology*, 95 #2 (2025), 1-24.
 96. "It's not easy being Green: Revisiting Catholic Green Revolutions, 1933-1952," *U.S. Catholic Historian* 43 #2 (2025): 21-50.
- Numerous articles on aspects of engineering, physics, chemistry, biochemistry, geology, statistics, and computer science for the UIR Research Newsletter, 1980-82

AV PUBLICATIONS

- 1 Interview, "Historians on History," Open University, 10 September 2016.

REVIEWS

- 1 "Review of R. R. Shrock, *Geology at M.I.T., 1865-1965*, vol. 1," *Isis* 70 (1979):288-89
- 2 "Review of R. R. Shrock, *Geology at M.I.T.*, vol. 2," *Earth Sciences History* 2 (1983): 86
- 3 "Review of William Glen, *The Road to Jaramillo: Critical Years of the Revolution in Earth Sciences*," *Isis* 74 (1983): 592-3
- 4 "A Vision of Chemistry, Essay review of R.F. Bud and Gerrylynn K. Roberts, *Science versus Practice: Chemistry in Victorian Britain*" *CHOC News* 3 no. 2 (Fall 1985):
- 5 "Review of Bill Luckin, *Pollution and Control: A Social History of the Thames in the Nineteenth Century*" *Isis*, 78 (1987): 494-5
- 6 "Review of Peter Brimblecombe, *The Big Smoke: A History of Air Pollution in London since Medieval Times*," *Albion* 20 (1988): 654-5
- 7 "Review of F. B. Smith "The Retreat of Tuberculosis, 1850-1950," *Victorian Studies*, 32 no. 4 (1989): 579-80
- 8 "Review of Anthony Brundage, *England's 'Prussian Minister': Edwin Chadwick and the Politics of government Growth*," *Victorian Studies*, 34 (1990): 340-1
- 9 "Hygiene at the Turn of a Tap: Review of J-P Goubert, *The Conquest of Water: The Advent of Health in the Industrial Age*," *Times Higher Education Supplement* 916 (1990): 23
- 10 Exhibit Review, "'Underground Manchester' at the Greater Manchester Museum of Science and Industry," *Technology and Culture* 21 (1991): 97-101
- 11 "Review of Philip D. Curtin, *Death by Migration: Europe's Encounter with the Tropical World in the Nineteenth Century* and Kerrie L. MacPherson, *A Wilderness in the Marshes: The Origins of Public Health in Shanghai*" in *Victorian Studies*, 34 (1991): 391-393
- 12 "Review of CWS Hartley, *A Biography of Sir Charles Hartley, Civil Engineer, 1825-1915: Father of the Danube*" in *Albion*, 23 (1991): 154-155
- 13 "Review of Bill Luckin, *Questions of Power: Electricity and Environment in inter-war Britain*" in

Albion, 23 (1991): 199-80

14 "Review of Brian Martin, Scientific Knowledge in Controversy: The Social Dynamics of the Fluoridation Debate" in *The American Scientist*, January-February, 1993, 99-100.

15 "Review of Colleen O'Toole, *The Search for Purity: The Chlorination of Cincinnati's Water, 1908-1918*" in *Bulletin of the History of Medicine*, 66 (1992): 492-3.

16 "Review of John Duffy, *The Sanitarians: A History of American Public Health*," *Technology and Culture*, 33 (1992): 826-7.

17 "Review of E. Fee and R. M. Acheson, eds., *A History of Education in Public Health*," *Social History of Medicine*, 5 (1992): 537-8.

18 "Review of Donald Reid, *Paris Sewers and Sewermen*," *Bulletin of the History of Medicine* 67 (1993): 357-9.

19 "Review of Wiebe Bijker and John Law, *Shaping Technology/Building Society: Studies in Sociotechnical Change*," *Times Higher Education Supplement*, 25 Sept. 1993.

20 "Review of Roy Porter, ed., *The Popularization of Medicine, 1650-1850*," *Nineteenth Century Contexts*, 18 (1995): 409-10.

21 "Review of John Landers, *Death and the Metropolis: Studies in the Demographic History of London, 1670-1830*," *Isis*, 86 (1995): 492.

22 "Review of Lawrence Breeze, *The British Experience with River Pollution, 1865-1876*," *Isis*, 85 (1994): 707-8.

23 "Review of Christopher Lawrence, *Medicine in the Making of Modern Britain, 1700-1920*," *Social History of Medicine*, 8 (1995) 130-1.

24 "Review of Jeffrey Stine, *Mixing the Waters: Environment, Politics, and the Building of the Tennessee-Tombigbee Waterway*," *Technology of Culture*, 36 #3 (1995): 687-90.

25 "Review of Howard Segal, *Future Imperfect: The Mixed Blessings of Technology in America*," *New England Quarterly*, 58 (1995) 311-12.

26 "Review of B. W. Clapp, *An Environmental History of Britain*, *Albion* 27 #4 (1995): 687-8.

27 "Review of Mary Poovey, *Making a Social Body*," *Bulletin of the History of Medicine*, 71, #3 (1997): 532-4

28 "Review of Craig Colten and Peter Skinner, *The Road to Love Canal*," *American Scientist*, 85 (1997): 394-5

29 "Review of Joseph Robins, *The Miasma, Epidemic and Panic in Nineteenth-Century Ireland*," *Bulletin of the History of Medicine*, 72 #1 (1998) 125-7

30 "Review of S. Krimsky and R. Wrubel, *Agricultural Biotechnology and the Environment, Science, Policy, and Social Issues*," *Technology and Culture*, forthcoming

31 "Review of Peter Stern, *Prisoners of the Crystal Palace*," *Isis*, 88 #3 (1997): 581

32 "Review of John Eyler, *Sir Arthur Newsholme and State Medicine, 1885-1935*" *Bulletin of the History of Medicine* 72 (1998): 564-5

34 "Review of Ronald Cassell, *Medical Charities, Medical Politics: The Irish Dispensary System and the Poor Law, 1836-1872*," *Bulletin of the History of Medicine*, 72 (1998): 780

35 "Review of Joel Tarr, *In Search of the Ultimate Sink, Historical Perspectives on Urban Pollution*," *Isis* (forthcoming)

36. "Review of Dorothy Porter, ed., *Social Medicine and Medical Sociology in the Twentieth Century*," *Bulletin of the History of Medicine* 73 (1999): 343-4.

37 "Review of Harry Marks, *The Progress of Experiment: Science and Therapeutic Reform in the United States, 1900-1990*," *JAMA* 280 #23 (1998): 2044-5

38. "Review of Dorothy Porter, *Health, civilization and the state: a history of public health from ancient to modern times*," *Medical History* 44 (2000): 563-5.

39. "Review of Anne Digby, *The Evolution of British General Practice, 1850-1948*," *American Historical Review* 105 (December 2000): 1802-3
40. "Review of Martin Melosi, *The Sanitary City*," *Environmental Practice* 3 (2001): 129-30
41. "Review of James Winter, *Secure from Rash Assault: Sustaining the Victorian Environment*," *Social History* 16 (Spring 2001): 732-4
42. "Review of Heikki Mikkeli, *Hygiene in the Early Modern Medical Tradition*," *Medical History* 45 (2001): 308-9
43. "Review of Peter Baldwin, *Contagion and the State in Europe, 1830-1930*," *Bulletin of the History of Medicine* 75 (2001): 137-9
44. "Review of Irvine Loudon, *The Tragedy of Childbed Fever*," *American Historical Review* 106 (October 2001): 1325
45. "Review of Ian Burney, *Bodies of Evidence: Medicine and the Politics of the English Inquest, 1830-1926*," *Medical History* 45 (2001): 547-8
46. "Review of John Pickstone, *Ways of Knowing*," *JAMA* 286 (12 December 2001): 2878
47. "Review of James Strick, *Sparks of Life: Darwinism and Victorian Debates over Spontaneous Generation*," *Bulletin of the History of Medicine* 75 (2001): 799-801
48. "Review of S. Sheard and H. Power (eds.), *Body and City: Histories of Urban Public Health*," *Continuity and Change*, forthcoming
49. "Review of Stephen Mosley, *The Chimney of the World: A History of Smoke Pollution in Victorian and Edwardian Manchester*," *HTECH* (October 2002)
50. "Review of Christoph Bernhardt and Genèvieve Massillon, eds. *Le Démon Moderne*," *Business History Review* 77 (2003): 184-188.
51. "Review of Michael French and Jim Phillips, *Cheated not Poisoned? Food Regulation in the United Kingdom*," *Isis* 94 (2003): 400.
52. "Review of Roy Porter, *Bodies Politic: Disease, Death, and Doctors in Britain, 1650-1900*," *Journal of Interdisciplinary History* 34 (2003): 452-3
53. "Review of Carl Elliott, *Better Than Well: American Medicine Meets the American Dream*," *JAMA* 290 (2003): 1521.
54. "Review of Lawrence Goldman, *Science, Reform and Politics in Victorian Britain: The Social Science Association 1857-1886*," *Social History* 29 (2004): 540-2
55. "Review of David Serlin, *Replaceable You*," *JAMA* 292 (2004): 2022-2023.
56. "Review of the *Collected Works of Florence Nightingale*, vol. 6," *Bulletin of the History of Medicine* 79 (2005) 584-585.
57. "Review of Nadja Durbach, *Bodily Matters*," *American Historical Review* 110 (2005): 1598-9.
58. "Review of Keir Waddington, *The Bovine Plague*," *Journal of British Studies* 46 (2007): 209-10.
59. "Review of W. F. Bynum et al., *The Western Medical Tradition*," *Journal of the History of Medicine* 62 (2007): 254-56
60. "Review of David Barnes, *The Great Stink of Paris*," *British Journal for the History of Science*, 40(3) (2007) : 439-466
61. "Review of Emily Cockayne, *Hubbub*," *JAMA* 299 #1 (2008) 299:101-102
62. "Review of Ian Burney, *Poison, Detection, and the Victorian Imagination*," *British Journal for the History of Science*, forthcoming
63. "Review of David McLean, *Public Health and Politics in the Age of Reform: Cholera, the State and the Royal Navy in Victorian Britain*," *Bulletin of the History of Medicine* 81 (2007): 874-5.
64. Evan Selinger, and Robert P. Crease, eds. *The Philosophy of Expertise, Public Understanding of Science* 17 (2008): 277-78

65. Review of Ludwig Deppisch, *The White House Physician: A History from Washington to George W. Bush*, *JAMA* 299 (2008): 2214-16.
66. Review of Michelle Allen, *Cleansing the City*, *The Historian* 72 (2010): 464-5.
67. Review of William Brock, *William Crookes and the Commercialization of Science*, *Medical History* 53 (2009): 435-6
68. Review of Charles Webster, *Paracelus*, *JAMA* 301 (2009): 1293-1294.
69. Review of Warwick Anderson, *Collectors of Lost Souls: Turning Kuru Scientists into White men*, *British Journal for the History of Science* 43 (2010): 141-2
70. Review of Gary Ferngren, *Medicine and Health Care in Early Christianity*, *JAMA*. 2009;302(24):2710-2711.
71. Review of James Whorton, *Arsenic Century: how Victorian Britain was Poisoned at Home, Work, and Play*, *Medical History* 55(2) (2011): 266–267.
72. Review of Naomi Oreskes and Erik Conway, *Merchants of Doubt*, *Ambix* 58 (2011): 287-9.
73. "The Geography of Illness," Review of Tom Koch, *Geographies of Disease*, *The American Scientist* 99 (2011): 498.
74. Review of Kerry Falvey, *Medicine at Yale: the First 200 Years*, *JAMA* 305 (2011):2119-2120
75. Review of Michael Brown, *Performing Medicine*, *Social History of Medicine*, 25 (2012): 759-60.
76. Review of Ian Miller, *The British Stomach*, *American Historical Review* 117 (2012): 1668.
77. Review of Jo Guldi, *Roads to Power: Britain invents the Infrastructure State*, *Social History* in press
78. Review of Richard Cork, *The Healing Power of Art*, *JAMA* 308 (2012): 1589-1590.
79. Review of Ryan Johnson and Amna Khalid, *Public Health in the British Empire*, *Victorian Studies* 56 (2014), 302-3.
80. Review of Harriet Ritvo, *The Dawn of Green*, *Technology and Culture* 54 (2014): 980-1.
81. Review of Melvin Santer, *Confronting Contagion*, *Isis* 107 #4 (2016): 818-19
82. Review of Leslie Tomory, *London's Water Industry 1585-1820*, *Ambix* 64(2017): 381-2.
83. Review of Jennet Conant, *Man of the Hour*, *Global War Studies*, 2019 forthcoming.
84. Review of Christopher Braider, *Experimental Selves*, *Isis* 111 no. 3 (2020): 671-3.
85. Review of Kevin Siena, *Rotten Bodies*, *Journal of Modern History* 92 no. 4 (2019): 933-5

LECTURES, SEMINARS, AND PRESENTED PAPERS:

- 1 "The Germ Theory as a Rhetorical Tool: The Case of William Crookes," presented to the North of 40 History of Medicine Group, Bloomington, Indiana, March 1982
- 2 "Politics and Germ Theories: The Metropolitan Water Commissions of 1867-9 and 1892-4," presented to the American Association for the History of Medicine, Bethesda, MD, April 1982
- 3 "Robert Warington and the Natural Theology of Harmony and Discord," presented to the Midwest Junto for the History of Science, Ann Arbor, MI, April 1983
- 4 "The Metaphysics of Putrefaction or How we've stopped worrying and learned to love rotting," Lyman Briggs Colloquium, April 1983
- 5 "The Metaphysics of Putrefaction: Victorian Sanitarians and the Natural Theology of Health and Disease," presented to the Midwest Victorian Studies Association, Chicago, May 1983
- 6 "Ideology and Agricultural Research," Seminar, University of Kentucky, Dept. of Sociology, September 1984
- 7 "The Propriety of Partiality: The Bearings of Expert Witnessing on Scientific Method," Briggs Seminar Series, October 1984; presented to M.S.U. History of Economic Thought Club, Nov. 1984 and at History of Science Society Meeting, Chicago, December 1984

- 8 "Changing Measures of Water Quality, 1850-1900," presented to the Annual Meeting of The American Society for Environmental History/AHA, New York, Dec. 28, 1985
- 9 [with Philip T. Shepard] "How not to Presume: Toward a descriptive theory of ideology in Science and Technology Controversy," presented at the Annual Meeting of the Society for the Social Study of Science, Pittsburgh, Oct. 1986
- 10 "Epidemics as Incentives to Sanitary Reform: The Cases of Five English Towns, 1855-1885," presented at the Annual Meeting of the Indiana Association of Historians, Franklin, Indiana, March 13 and 14, 1987
- 11 "Ignoring John Murray's Problem: British Mineral Water Analysts and the Problem of Certainty, 1800-1850," presented to the Midwest Junto for the History of Science, DeKalb, Illinois, April 9-11, 1987
- 12 "Images of Agricultural Sustainability in Contemporary American Agricultural Policy Literature," presented to the Conference on Food and Farm Issues for the '80s, Annual Meeting of the Society for Economic Anthropology, Riverside, California, April 3 and 4, 1987
- 13 "Millenarianism, Populism, and Eco-Agriculture: An Exploration of the Thought of Charles Walters Jr.," presented at the Conference on Agriculture, Food, and Human Values, Orlando, Florida, October 8-9, 1987
- 14 "Taking the Big Step: Engineers and Municipal Sanitary Initiative in 19th Century British Towns," presented at the Conference of the Society for the History of Technology, Raleigh, N.C., October 31-November 1, 1987
- 15 "The Local Government Board and Expert Advice: A Reassessment," presented at the Joint Meeting of the History of Science Society and the British Society for the History of Science, Manchester, England, July 11-15, 1987
- 16 "History of Wastewater Treatment," Colloquium, Center for Bioengineering & Pollution Control, University of Notre Dame, February 2, 1988
- 17 "Putrefaction in the Age of Dickens," Colloquium to English Department, University of Notre Dame, April 1988
- 18 "Thomas Henry Huxley: The Courage to be Secular," sermon, First Unitarian Church, South Bend, Indiana, April 1988
- 19 "Municipal Engineering and Public Health: The Beginnings of Bacteriological Water Analysis, 1884-1900," invited lecture, Michigan State University, May 1988
- 20 "Hermeneutics in Agricultural Research," invited colloquium, Northwestern University, History and Philosophy of Science Program, November 1988
- 21 "What's Technology For? What's the History of Technology For?" invited lecture, Lake Michigan College, October 27, 1988
- 22 "Knowledge and Action: The Reflexivity Problem in the Historiography of Technology," seminar to Department of History and Philosophy of Science, University of Leeds, October 25, 1989
- 23 "Expert Disagreement in the Eighteenth Century," seminar to the Program in the History of Science, University of Lancaster, December 7, 1989
- 24 "Chadwick's Army: Municipal Engineers and Local Public Health Decision-Making," seminar to University of Manchester Centre for the History of Science, Technology, and Medicine, December 12, 1989
- 25 "Science by Scandal: The Chemistry of Mineral Springs, 1740-1840," address to Liverpool Society for the History of Science and Technology, January 18, 1990
- 26 "Sanitary Engineers as Social Reformers," seminar to Centre for the History of Social Policies, Liverpool University, January 22, 1990
- 27 "Reflexivity and Agricultural Research," seminar to University of Manchester, Centre for the

History of Science, Technology, and Medicine, February 13, 1990

28 "The Uses of Concepts of Predisposing Causes in the Early Public Health Movement," seminar to Wellcome Unit for the History of Medicine, University of Oxford, March 8, 1990

29 "From Knowledge to Action: Analyzing and Modeling the Environment," invited address to the Conference on Chemical Sciences in the Modern World, Philadelphia, PA, May 19, 1990

30 "Edwin Chadwick and the Engineers: A Reassessment," seminar to Department of History of Medicine, University of London, May 30, 1990

31 "Medical Officers, Municipal Engineers, and the Struggle to Control Local Public Health Administration in Britain, 1848-1990" presented to Annual meeting, American Association for the History of Medicine, Cleveland, OH, May 1991

32 "On the Possibility of Future Water Crises: Why Good Science and Good Technology will not be Enough" invited address, Progetto Acqua, Naples, Italy, June 28, 1991

33 "The Sanitarian becomes an Authority, 1850-1910" invited paper conference on the History of Public Health and Prevention, Lindingo, Stockholm, Sweden, Sept. 7, 1991

34 "Predisposition and the Scope of Public Health in Early Nineteenth Century Britain" Seminar, History of Medicine Dept., Johns Hopkins University, Baltimore, Sept. 19, 1991

35 "Public Health as Imperative, Public Health as Ideology, or Public Health as Idiom: The Edinburgh Foul Burn Controversy of 1839-40" seminar to Dept. of the History and Sociology of Science, University of Pennsylvania, Dec. 2, 1991

36 "Chadwick's Army: Municipal Engineers and Local Government Decision-Making" seminar to the Dept. of History, University of Delaware, Dec. 3, 1992

37 "Engineering Expertise and Private Bill-Procedure in Nineteenth-Century Britain" to Meeting on the History of Laboratories and Laboratory Science, Toronto, July 26-28, 1992.

38 "Forging Sanitary Orthodoxy: Edwin Chadwick and the 'Local Reports,'" invited paper, Symposium on Medical Radicals, Wellcome Institute for the History of Medicine, London, 18 Feb. 1993.

39 "What Farr Wrought: Theory and Practice of Cause of Death Registration in Britain, c. 1840" invited paper, International Conference on the History of Registration of Causes of Death, Bloomington, IN, 11-14 Nov. 1993.

40 "Edwin Chadwick and the Fever Question," American Association for the History of Medicine, New York, April 1994.

41 "The Meaning of Water in British Public Health, 1828-1853," presented to History of Science Society Annual Meeting, New Orleans, October 15, 1994.

42 "Food, Work, Water, Air: The Marginalization and Recovery of the History of Public Health" seminar, Department of History, Western Michigan University, 22 February 1995.

43 "Knowledge and Action: The Role of History in Improving Water," National Conference on Safe Water Environments, Eldoret, Kenya, 22-23 August 1995.

44 Participant, Scientific Workshop, People and Pathogens, Eldoret, Kenya, 24-26 August 1995.

45 "The Industrial Revolution as a Physiological Problem," International Congress for the History of Science, Liege, Belgium, 23 July 1997

46 "The Health of Towns Association and its Rivals," Biannual meeting, International Network for the History of Public Health, Liverpool, 4 September 1997

47 "Alternatives in Urban Sanitation: the Historians' Agenda", invited presentation, European Social Sciences History Conference, Amsterdam, March 1998

48 "Malthus and the Doctors: Ireland, England, and Wales, 1816-1840," invited paper, Symposium on Malthus in Science and Medicine, Wellcome Institute for the History of Medicine, London, 20 March 1998.

- 49 "The Degreening of Public Health in the Nineteenth Century," Heath Clark Lecture, London School of Hygiene and Tropical Medicine, 13 May 1998
- 50 "'I'm Alright Jack': Thoughts on the contemporary hostility to the Welfare State," invited paper, symposium on the Scholar and the Welfare State, University of Linköping, Sweden, 15 May 1998.
- 51 "Environment and Public Health: Historical Tensions, Modern Resolutions," public lecture Chalmers University of Göteborg, Sweden, 19 May 1998.
- 52 "Rethinking the History of Water and Sanitation", seminar to the faculty of Architecture and Urban Design, Chalmers University of Göteborg, Sweden, 19 May 1998
- 53 "Risk and Imagination in Public Health Policy: Water, Farming, and Death" Science Speaks to Policy Seminar Series, London School of Hygiene and Tropical Medicine, 26 May 1998.
- 54 "Sewage, Nature, and Death," seminar to the South Kensington Institute for the History of Technology, London 3 June 1998
- 55 Commentator and co-organiser, Workshop on Public Health: History and Philosophy, London School of Hygiene and Tropical Medicine, June 4-5 1998
- 56 "Dung and the Public Domain," invited paper, in Medicine and the Public Sphere, annual meeting of the Society for the Social History of Medicine, Edinburgh, Scotland, 17 July 1998
- 57 "The Waters we have lost," Invited paper, International Conference on Water History, University of Wales, Aberystwyth, July 8-11 1999
- 58 "Public Health as Common Sense," presented at the International Conference on Health: People, Perceptions, and Policies, joint meeting of the EAHM and the INHPH, Almunecar Spain, Sept 2-5 1999
- 59 "Pipe-Bound Minds? Urban Water and Sewage Management in the Nineteenth and Twentieth Centuries" invited paper, Stockholm, November 28-29 1999
- 60 "Nuisances, Public Health, and the Public Sphere," invited paper, University of Wisconsin, Department of the History of Medicine, November 2000
- 61 "The Heavens and Heaven: The Atmospheric Chemistry of the Airy Afterlife," invited paper, Good Airs and Bad: Historical Perspectives on the Atmosphere in Relation to Health and Medicine, November 2000
- 62 "Chemistry and the City" invited paper, Science and the City, Max Planck Institut for Wissenschaftsgeschichte, December 2000.
- 63 "William Pulteney Alison and the Boundaries of Public Health," invited paper, University of Pennsylvania, Department of the History and Sociology of Science, October 2001
- 64 "Nuisances and the Local State," Workshop on European Urban Environmental History, Leicester, June 2002
- 65 "Molecular Mini-Me's: Death, Worms, and Deep Ecology," invited seminar to STS Program, Colby College, 25 October 2002
- 66 "Chemistry and Natural Theology: From Prout to Liebig," invited seminar to Andrews University, Dept. of Chemistry, 7 November 2002
- 67 "Natural Theology as Natural Science: Brougham's Initiative, Macculloch's Practice, 1835-7," invited seminar to University of Durham, Department of Philosophy, 6 February 2003
- 68 "Being Nature: The Human Scale of Charles Kingsley," Science and Theology Seminar, Harris Manchester College, University of Oxford, 27 March 2003
- 69 "Technocracy and the shape of English environmentalism: The Cremation Controversy 1874-1902," invited seminar to Manchester University Centre for the History of Science, Technology, and Medicine, 4 April 2003.
- 70 & 71 "Sanitary Policing and the Local State, 1873-74: A Statistical Study of English and Welsh Towns," invited seminar to the Centre for the History of Medicine, University of Glasgow, 29 April

2003, and Program for the History of Medicine, London School of Hygiene and Tropical Medicine, 1 May 2003.

72 "Collins' and Evans' Third Wave Science Studies: An Agenda for the History and Philosophy of Science?" invited seminar Conference on Science and Values, University of Bielefeld, 12 July 2003

73 "A Sanitary Policeman's Lot is Not a Happy One: Nuisances Inspection in England and Wales, 1856-1902," American Association for the History of Medicine Annual Meeting, Madison, 30 April 2004

74 "Where Doctoring Begins and Ends: Dr. W.P. Alison and the Problem of the Borders of Medicine," invited AMS Patterson Lecture, Canadian Society for the History of Medicine, 5 June 2004

75 "Environmental Policing in London, 1856-1900: A Longitudinal Study," presented at The Making of Contemporary European Cities, Third International Roundtable on European Urban Environmental History, Siena, 27 June 2004

76 "Roasting Germs: Bacteriology in the Cremation Controversy," presented at Fifth Joint Meeting of BJHS, CSHPS, and HSS, Halifax, 5 August 2004

77 "The Greening of America Catholic Style, 1930-1950," presented to Conference "Faith, Ethics, and the Environment, University of Notre Dame, 8 November 2004

78 "The Health of Towns Association as a Social Movement," invited address, symposium on Healthy Towns, London School of Hygiene and Tropical Medicine, 11 November 2004

79. "Celtic Fever Theory at the Time of the Famine: Corrigan and Alison," presented to American Council on Irish Studies, 14 April 2005

80. "Meaning, Trust, Authority, Time, Expertise," invited presentation, Workshop on Big Issues in the History of Science, Technology and Medicine, Manchester, 24 June 2005

81. "The Necessities of Life in British Political Medicine," invited presentation, Workshop on the Politics of Necessity, Oxford, 9 September 2005.

82. "Existential Chemistry," Workshop at Chemical Heritage Foundation, 2 February 2006.

83. "Could You Starve to Death in Ireland during the great Famine?," invited presentation, Department of the History and Sociology of Science, University of Pennsylvania, March 13, 2006.

84. "Convalescence in Ireland, 1818-1850," American Association for the History of Medicine, May 5 2006.

85. "Being Dead," paper to Session on Sensory History, American Historical Association, Atlanta, January 2007.

86. "Waters at the intersection of chemistry and culture," invited presentation; presidential symposium, "Going with the Flow: Water Sustainability Past, Present, Future," American Chemical Society, Chicago, March 26 2007

87. "When I say Water I mean Water: Water from Medium of Culture to Culture Medium," invited keynote, in workshop Kill or Cure: Water and Health in the Nineteenth Century, Venice, March 29, 2007

88. "Environment and Disease in Ireland, 1802-1852," invited keynote, European Association for the History of Medicine, September 2007

89. "The Reception of Malthus as a Problem of Existential Historiography," invited seminar, Program of Environmental and Development Studies, University of Chicago, November 2007

90. "Making the books Balance: waste as Not Waste," invited paper, Biotrash and Wastes in History, Venice, May 2008

91. "Fever in Ireland," invited lecture, Department of the History of Medicine, Johns Hopkins University, September 2008

92. "Charles Darwin, Scientist," Snite Museum exhibition opening, University of Notre Dame, March 2009.
93. the Gift of Good Water," University of Notre Dame, Water Symposium, March 2009
- 94 Cholera as Apocalypse, 1875 and 2010," invited seminar, History of Science Program, University of British Columbia, 1 October 2009.
- 95 "The Philosophy of Water: The Gift of Good Water," Invited lecture, Environmental Studies Program, Autonomous University of Barcelona, March 8 2010
- 96 "The Special Problem of the Expert," Science and its Publics Seminar, Autonomous University of Barcelona, March 9 2010
98. "Jaume Ferran i Clua as an Exemplary Expert," Science and its Publics" Seminar, Autonomous University of Barcelona, March 9 2010
- 97 Victorians Alive! Robert Angus Smith, William Farr, and Arthur Newsome meet the 21st Century, invited lecture, Program in the History of Medicine, Minneapolis, 10 May 2010
- 98 "The Philosophy of Water: The Threat of Wet, the Right to Dry," invited Wellcome Lecture, Manchester University, 2 June 2010
- 99 "Bacteriology as a Cultural System," seminar, Centre for the History of Science, Technology, and Medicine, Manchester University
- 99 "How Cholera became Asian," seminar, London School of Hygiene and Tropical Medicine, 9 June 2010
- 100 "Forensic Cultures in Historical Perspective: Technologies of Witness, Technologies of Testimony, Technologies of Truth... and Freedom?," invited paper, Forensic Cultures symposium, Manchester University, 11 June 2010.
- 101 "Does Doctors' Knowledge Answer Historians' Questions?," invited seminar, Institute of Historical Research, London, March 2011.
- 102 "Surgeon Orton and the Pathology of Deadly Airts," invited presentation, Cain Conference, Chemical Heritage Foundation, Philadelphia, March 2011
- 103 The Rise and Fall of Famine Fever," American Association for the History of Medicine, Philadelphia, April 2011.
- 104 keynote, Political Civility and Scientific Objectivity, UCSD, 1 March 2012.
- 105 "Experts and Anarchists in Victorian Sanitation," Facts, Artifacts, and the Politics of Consensus, Northwestern University, April 2012
- 106 "Fever in Prefamine Ireland," seminar, University College Dublin, 3 April 2012
- 107 "The Evangelical 'Natures' of Christian Sturm," American Historical Association, New Orleans, 4 January 2013.
- 108 "John Snow's concept of cholera: the Revolution beyond Epidemiology, " The John Snow bicentenary, London School of Hygiene and Tropical Medicine, March 16 2013.
- 109 "Fever as an Historical Problem," IAS, October 14 2013
- 110 "Where the Mosquito Sucks there Suck I: Dracula and Malaria" New York Area History of Science Group, NYU, 30 October 2013
- 111 "The Problem of Interdisciplinary Epistemology: Two Cautionary Tales from the Prehistory of the Enterprise," IAS After Hours Talk, March 3, 2014.
- 112 "*Dracula*, Malaria, Cachexia: Rethinking the security of the self, c. 1900," invited seminar, University of Pennsylvania, April 21 2014
- 113 "Malarial Psychosis as a Medico-Legal Problem, 1830-1930," American Association for the History of Medicine, Chicago, May 10, 2014
- 114 "Fever and Political Economy in Ireland and Scotland in the early Nineteenth Century," invited seminar Centre for the Social History of Health and Healthcare, Caledonian University

Glasgow, June 17 2014

115 "Lived History of Science," History and Philosophy Science program, 25th Anniversary Celebration, 25 September 2014.

116. "What's Putrid about Putrid Fever?" History of Science Society, Chicago, November 7 2014

117.. Panelist, "Bodily Disciplines: Writing at the Interface of History and Public Health," American Historical Association, New York, 3 January 2015.

118 "Michiana's Medical Cabinet: Objects in our Midst," Insights lecture with Nicholas Bonneau and Sean Phillips, The History Museum, South Bend, 1 April 2015.

119 "Turning over the Right Rocks: Finding Legacies of Catholic Environmentalism" Byrne Lecture, DePaul University, 9 April 2015.

120 "How Malaria became a disease -- and what that disease was," Hudson Lecture, University of Kansas Medical School, 7 May 2015.

121. "What is Your Complaint: Health as Political Economy in the Long Nineteenth Century," Keynote address, Medicine and the Modern World Conference, ST. Anne's College Oxford, September 11, 2016.

122. "Textbook Traditions in Forensic Science and Medicine," invited talk, International Academy of Forensic Sciences, Toronto, August 21, 2017.

123. "Delirium Lost", The George Rosen Lecture for 2018. Beaumont Medical Society, Yale University, April 20, 2018.

124. "Citizen Psychopath: Hervey Cleckley and Robert M. Lindner construct sociopathic societies in America, 1941-1954," invited talk, Symposium on the Paranoid Style, Manchester, July 2018

125. "Forensic Facts and the Presumption of Innocence," History of Science Society Annual Meeting, Seattle, 1 November 2018

126. "Trust me, I'm a Historian of Science, Reflections on our Field in an Age of Crisis," plenary Address, Catalan Society for the History of Science, Nov, 2020.

127. "Paul Kirk Rewrites the History of (Forensic?) Science, 1963 (And tries to make a Revolution)," History of Science Society, November 2021.

128. "Water and Anarchy," opening plenary address, The Water Cultures of Europe and the Mediterranean, 1500-1900, Ca' Foscari University, Venice, Italy, September 2023.

129. "*Hungertyphus* in print and practice before the Great Famine," Workshop on Irish Medical Distinctiveness, Kylemore Abbey, Ireland, June 2024

130. "Eoin O'Brien's *Aesclepius to Beckett: A Life in Medicine* and the Irish Medical Memoir," to International Society for Contemporary Literature and Theatre, Bressanone, Italy, July 2024.

131. "Afebrility as a Human Right in Dublin, 1800-1830," Fever: Histories of (a) Disease, c. 1750-1840," Heidelberg, Germany, July 2025

PROFESSIONAL SOCIETIES:

International congress on the History of Science

Chair and commentator, sessions on Forensic Science, and the social history of Expertise, Manchester, 2013

History of Science Society

Co-Organizer, Session on Science and Society in Victorian Britain, 1984 Annual Meeting
Co-Organizer, Session on Science and Public Health, 1988 Joint Meeting with the British Society for the History of Science
Organizer, local arrangements chair, Mid-West Junto in the History of Science, March 1988
Commentator, Measure and Appetite, Hss Annual Meeting, Nov. 2005.
Organizer, session on Working Knowledges Before and After 1800, History of Science Society, November 2007.
Commentator, Natural Theology, HSS Annual Meeting, November 2009.

American Association for the History of Medicine

Garrison Lecture Committee, 1993-4
Chair, session on Health and Environment, Louisville, 1993
Shryock Prize Committee, 2006, 2012, chair, 2013-14
Editorial Board, 2005-2008
Program Committee 2015
Welch Medal Committee, 2015-16
Co-Chair, Program Committee 2017

Society for the History of Technology

Organizer and commentator, session on 'Resisting Systems: Alternative Schemes of Technological Development', Annual meeting, 1991
Levinson Prize Committee, 1995-97

Society for the Social History of Medicine

American Society for Environmental History

Chair and commentator, Session on Government Control of Water Resources: An International Comparative View
Leopold Prize Committee, 1995

American Historical Association

NASA Fellowship Committee, 1999-2002 (Chair, 2001-2)

SERVICE TO THE UNIVERSITY:

Michigan State University

LBS Co-Curricular Committee, 1982-83
LBS Awards Committee, 1984-
LBS Teaching Evaluation Committee, 1983-
Co-Organizer, Briggs Seminar Series, 1984
Co-Organizer, Mid-Michigan Science Writing Interest Group, 1984
Advisor to 13 undergraduate science and Science and Technology Studies students

The University of Notre Dame

University Committee on the Freshman Year of Study, 1991-92, 1994-95, 1996-97
Rhodes Application Committee, 1991-93
Graduate Council, 1994-97
University Committee on Libraries, 1996-98
University Committee on Patents, 1998-2002
University Appeals Committee, 1999
Co-coordinator, Conference on Ecology, Theology, and Judeo-Christian Environmental Ethics, February 2002
Campus Committee on Library Renovation, 2008-2009
Faculty Senate 2009-2010
ECI Steering Committee, 2011
Inquiry Committee on Research Misconduct, 2011

College of Arts and Letters

College Council, 1986-87, 1991-94, 1998-2001, 2012-14, 2015-16
Core Syllabus Revision Committee, 1988-89, 1991-92
Delegate, Conference of American Association of Colleges, Accreditation Board in Engineering and Technology on the Humanities and social sciences in the undergraduate Engineering curriculum
Committee on Computing, 2001-2
Journals Committee, 2007-9

History Department

Undergraduate Curriculum Committee, 1986-88, 2002, 2011-12-13
Graduate Honesty Committee, 1988-89
Graduate Committee, 1990-93, 2003-04, 2011-12, 2015-16
Committee on Appointments and Promotions, 1991-92, 1993-94, 1994-95, 1996-97
Placement Officer, 1992-94, 2002, 2011-12
Library Committee, 2003-04, 2006-7
Department Chairperson 1998-2001
Committee on Undergraduate Studies, Chair, 2006-7
African History search committee, Chair, 2007-8
Director of Graduate Studies, 2008-10
History of science search committee, chair, 2014

Reilly Center for Science, Technology, Values

STV Steering Committee, 1985-
Editor, STV Newsletter, 1985-87
Co-Organizer, STV Faculty Workshops, June 1987, Jan. 1988, Feb. 1989
HPS Colloquium series, 1991-92
Co-Organizer, "Connections" Series, 1987-88

Steering Committee, Program in the History and Philosophy of Science, 1988-89, 1990-91, 1992-93, 1994-97, 1999-2000, 2006-8, 2011-13

STV Director and advisor to roughly 100 students in the concentration, 1994-97

Ph.D. dissertations supervised

Craig Stillwell: "The Wisdom of Cells: The Integrity of Elie Metchnikoff's Ideas in Biology and Pathology", 1991 (Modern European History)

Vladimir Jankovic, "Meteors under Scrutiny: Private, Public, and Professional Weather in England, 1800-1850" (1998, HPS)

William Child, "Literature and Medicine: Medicine as Literature: The Writings of George Cheyne, 1671-1743," (1998 Department of English, co-director with Christopher Fox)

Angela Gugliotta, "Hell with the Lid Off: A Cultural History of Smoke Abatement in Pittsburgh" (2004, History)

Barbra Mann Wall, "Unlikely Entrepreneurs: Nuns, Nursing, and Hospital Development in the West and Midwest, 1865-1915" (2000, History)

Mioara Deac, "Selfhood and the many faces of modernity: psychology, psychical research and the visualized unseen in Britain, 1870-1900," (2005 HPS)

Holly VandeWall, "Expertise and the disunity of science a case study in the difficulties of providing expert advice for policy" (HPS 2010, co-director with Vaughn Mckim)

Elizabeth Hayes Webster, "American science and the pursuit of 'useful knowledge' in the polite eighteenth century, 1750-1806" (HPS 2010).

Melinda Grimsley-Smith, "Politics, Professionalization, and Poverty: Lunatic Asylums for the Poor in Ireland, 1817-1920" (2011 History)

Jessica Weaver Baron, "Florence Nightingale and India," (HPS, 2013).

Stephen Case, "Making Stars Physical: John Herschel's Stellar Astronomy, 1816-1871," (HPS 2014)

Sean Phillips, "Pox and the Pulpit: The Catholic Church and the Propagation of Smallpox Vaccination in Early-Nineteenth Century France" (History 2016, co-director with Thomas Kselman)

Sarah Naramore, "I sing the body republic: How Benjamin Rush created American medicine, HPS 2018

Nicholas Bonneau, "*Unspeakable Loss: New England's Invisible Throat Distemper Epidemics, 1735-1775*," 2020

Christopher Temple, "Fostering Elite Science at an American Catholic University: the Rise of a Research Culture at the University of Notre Dame, 1842-1967, 2020

Master's Theses supervised

Mary M. Thomas, "The Separation of Architecture from Engineering, 1850-1930" (HPS, April 1988)

Colin Holden, "Letting the Native Speak: Professional Authority and Writing in Nineteenth and Early Twentieth Century American Anthropology" (HPS, 1998)

Beatrice Carillo, "The Medicalization of Chilean Politics: An Analytical Catalogue of Physicians from the 1920s to the 1970s" (HPS 2016)

OTHER PROFESSIONAL SERVICE

Referee - NEH, Humanities, Science and Technology Program, NSF, Ethics and Values in Science and Program

Panelist - NEH/NSF EVIST Program; NIH.

Panelist ACLS, 2011, 2019-20

Panelist Consortium for the History of Science, 2019-20

Panelist, NIH/NLM 2020

Referee - Victorian Studies, University of California Press, Johns Hopkins University Press, Routledge, Isis, Technology, and Culture, Oxford University Press; University of Rochester Press, Social History of Medicine, Bulletin of the History of Medicine, Medical History, Journal of Policy History, Cambridge University Press; University of Chicago Press; The Wellcome Trust, Journal of Urban History, Bulletin of the History of Medicine, Environmental History, Agriculture and Human Values, Social Science and Medicine, Minerva, Perspectives on Science, Public Library of Science, Current Sociology, Leverhulme Foundation, MIT Press, American Journal of Sociology, Social Sciences Research Board of Canada, Royal Society of Chemistry, Endeavour, Continuity and Change, Amsterdam University Press, Historical Research, Water Alternatives, American Journal of Public Health, Arcadia, Media History

Editorial Boards: Medical History, Bulletin of the History of Medicine (2005-2008) , Nineteenth Century Contexts, Hygeia Internationalis, Journal of Urban History, Environmental Justice, University of Rochester Press

Co-Director, The Cultural Context of Environmental Issues: Past, Present, Future," Erasmus Summer Seminar, University of Portland, June 2004

GRANTS RECEIVED:

"Analysis of Values in Conventional and Organicist Agricultural Research Agendas" with Philip T. Shepard, NSF/EVIST, \$100,000, March 1985-March 1987

"Incentives to Sanitary Improvement, 1850-1890, and the Victorian Sanitary Engineer," American Council of Learned Societies/National Endowment for the Humanities, \$3,500, June-August 1985

"Politics, Public Health, & Explanations of Disease in Britain, 1850-1900," Notre Dame, Inst. for Scholarship in the Liberal Arts Summer stipend, \$2500, August 1988.

"Politics, Public Health, and Explanation of Disease in Britain, 1850-1900," \$41,142, National Library of Medicine, 1988, unable to accept

"British Municipal Engineers and the Revolution in Urban Technology 1840-1914: Milieu, Professionalism, Expertise, and Ideology," \$36,832, National Science Foundation and Notre Dame, May 1989-May 1990

Lilly Teaching Fellow in Environmental History, \$3,000, June 1992-June 1993

"The Making of Edwin Chadwick's 'Report on the Sanitary Condition of the Labouring Population,'" University of Notre Dame, June 1994-July 1994, \$7,424

"An Exploration of the Application of History to Water Programs in the Contemporary Developing World," Kellogg Institute, University of Notre Dame, \$3,000, June-August 1995

Heath-Clark Fellowship, London School of Hygiene, 1998, \$36,000

"Medicine and Political Economy," Seng Foundation, \$10,000, June-August 2006

Cain Fellowship, 2005-6 Chemical Heritage Foundation, \$46,000

Hans Kohn Membership, 2013-14, Institute for Advanced Study, \$49,000

Large Henkels Grant for conference, "Locating Forensic science and medicine: Histories of Trace, Place, Race," Notre Dame London Gateway, July 2015, co-organizer with Ian Burney and Neil Pemberton, Manchester, ISLA, \$21,500

Bi-annual research grant "The Meaning of 'Fever' in Ireland and Scotland, 1790-1850" ISLA \$8195

Several other grants for travel, course preparation, peace studies curriculum workshop, etc

August 2022