ROBERT E. KOHLER

CurriculumVitae, December 2018

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EDUCATION:

1959 B.A. Yale University, summa cum laude (chemistry) 1965 Ph.D. Harvard University (chemistry)

EMPLOYMENT:

1965-1968	Harvard Medical School, Department of Microbiology, research fellow
1968-1970	Harvard University, Department of History of Science, research fellow
1970-1973	Burndy Library, Assistant Director
1973-2005	University of Pennsylvania (Professor 1988)
1995	University of California San Diego (visiting professor)
2005-present	University of Pennsylvania Professor Emeritus

PRIZES:

Sarton Medal, History of Science Society, 2004 (for lifetime achievement in the history of science)

TEACHING: (selected)

History of American Science (1973-93)
Science since World War I (1973-81)
Science, Technology and War (1982-88)
Science Studies (1988-2001)
Field Science (1989)
Science in European Society (1990-93)
Science and the Environment (1994-96)
Environmental History (1994-2005)
Social History for Historians of Science (2002)
Science as Social Practice (2003-2006)

Science in American History (2003) The Modern Origins of Science (2010)

DISSERTATIONS DIRECTED:

Barbara Kimmelman, "A Progressive Era Discipline: Genetics at American Agricultural Colleges and Experiment Stations, 1890-1920." (1987)

Gerald Cassidy, "Ferdinand V. Hayden: Federal Entrepreneur of Science." (1991)

Alex K. Pang, "Empire and the Sun: Solar Eclipse Expeditions, Scientific Practice, and British Imperialism." (1991)

Helen Rozwadowski, "Fathoming the Ocean: Discovery and Exploration of the Deep Sea, 1840-1880." (1996)

Elizabeth Hansen, "The Meaning of Wildlife: Science and Sentiment in the Landscape of American Zoos, 1870-1990." (1996)

Mark Hamin, "Tables Turned, Palates Curbed: Elements of Energy, Economy, and Equilibrium in American Nutrition Science 1880-1930." (1999)

David J. H. Howie, "Interpretations of Probability, 1919-1939: Harold Jeffreys, R. A. Fisher, and the Bayesian Controversy." (1999)

Joshua Buhs, "The Fire-Ant Wars." (2001)

Alex Checkovich, "Mapping the American Way: Geographical Knowledge and the Development of the United States, 1890-1950." (2004).

Yasushi Sato, "Local Engineering in the Early American and Japanese Space Programs: Human Qualities in Grand System Building." (2005)

Jeremy Vetter, "The Regional Development of Science: Knowledge, Environment, and Field Work in the Central Plains and Rocky Mountains, 1860-1920." (2005)

Emily Pauley, "The Balance Sheet of Nature: Calculating the New York Farm, 1820-1860." (2009)

EDITORIAL BOARDS:

Social Studies of Science, Advisory Editor (1984-2011)

Isis, Advisory Editor (1987-92)

Journal of the History of Biology, Advisory Editor (1991-2001)

Nature and Culture, Advisory Editor (2005-present)

PUBLICATIONS -- BOOKS:

Inside Science: Stories from the Field in Human and Natural Science. University of Chicago Press, 2019.

All Creatures: Naturalists, Collectors, and Biodiversity, 1850-1950. Princeton University Press, 2006.

Landscapes and Labscapes: Exploring the Lab-Field Border in Biology. University of Chicago Press, 2002.

- Lords of the Fly: Drosophila Genetics and the Experimental Life. University of Chicago Press, 1994.
- Partners in Science: Foundations and Natural Scientists, 1900-1945. University of Chicago Press, 1991.
- From Medical Chemistry to Biochemistry: The Making of a Biomedical Discipline. Cambridge University Press, 1982.

Publications – Edited Volumes.

(With Kathryn M. Olesko), "Clio Meets Science: The Challenge of History," *Osiris* 27 (2012). (With Henrika Kuklick), "Science in the Field." *Osiris* 11 (1996).

PUBLICATIONS – ARTICLES:

- (With Jeremy Vetter), "The Field," in *A Companion to the History of Science*, ed. Bernard Lightman (New York: John Wiley & Sons, 2016), 282-295.
- "Reflections on the history of systematics," in *Patterns in Nature: Historical and Conceptual Foundations of Systematics*, ed. Andrew Hamilton (Berkeley: University of California Press, 2013),15-37.
- (With Kathryn M. Olesko), "Introduction: Clio meets science," Osiris 27 (2012): 1-16.
- "Practice and place in twentieth-century field biology: a comment," *Journal of the History of Biology* 45 (2012): 579-86.
- "Paul Errington, Aldo Leopold, and wildlife ecology: residential science." *Historical Studies in the Natural Sciences* 41 (2011): 216-54.
- "History of field science: trends and prospects." In *Knowing Global Environments: New Historical Perspectives on the Field Sciences*, ed. Jeremy Vetter (New Brunswick: Rutgers University Press, 2010), 212-40.
- "Lab history: reflections." Isis 99 (2008): 761-768.
- "From farm and family to career naturalist: the apprenticeship of Vernon Bailey." *Isis* 99 (2008): 28-56.
- "Plants and pigeonholes: classification as a practice in American ecology." *Historical Studies in the Natural Sciences* 38 (2008): 77-108.
- "Finders, keepers: collecting sciences and collecting practice." *History of Science* 45 (2007): 1-27.
- "A generalist's vision: introduction." *Isis* 96 (2005): 224-29.
- "Subspecies classification and biological survey, 1850s-1930s." in *Spaces of Science*, ed. Ursula Klein (Berlin: Max-Planck-Institut für Wissenschaftsgeschichte preprint 240, 2003), 31-48.
- "Labscapes: Naturalizing the Laboratory." *History of Science* 40 (2002): 473-501.

- "Place and practice in field biology." History of Science 40 (2002): 189-210.
- "Moral economy, material culture, and community in *Drosophila* genetics." In *The Science Studies Reader*, ed. Mario Biagioli (London: Routledge, 1999), 243-57.
- (With Henrika Kuklick), "Science in the field." Osiris 11 (1996): 1-16.
- "Fly room west: Dobzhansky, *D. pseudoobscura*, and scientific practice." In *The Evolution of Theodosius Dobzhansky: Essays on his Life and Thought in Russia and America*, ed. Mark B. Adams (Princeton: Princeton University Press, 1994), 115-28.
- "Engineers, sanitarians and public science in the 1870s." Minerva 31 (1993): 184-210.
- "Drosophila: a life in the laboratory." Journal of the History of Biology 26 (1993): 281-310.
- "Drosophila and evolutionary genetics: the moral economy of science." History of Science 29 (1991): 335-74.
- "Systems of production: *Drosophila*, *Neurospora*, and biochemical genetics." *Historical Studies in the Physical Sciences* 21 (1991): 87-130.
- "The Ph.D. machine: building on the collegiate base." Isis 81 (1990): 638-62.
- "Science, foundations, and American universities in the 1920s." Osiris 3 (1986): 135-64.
- "Science and philanthropy: Wickliffe Rose and the International Education Board." *Minerva* 23 (1985): 75-95.
- "Bacterial physiology: the medical context." Bulletin of the History of Medicine 59 (1985): 54-74.
- "Innovation in normal science: bacterial physiology." Isis 76 (1985): 162-81.
- "Medical reform and biomedical science: biochemistry, a case study." In Morris Vogel and Charles Rosenberg, eds., *The Therapeutic Revolution*. University of Pennsylvania Press, 1979, 27-66.
- "Warren Weaver and the Rockefeller Foundation program in molecular biology, a case study in the management of science." In *The Sciences in the American Context, New Perspectives*, ed. Nathan Reingold (Washington: Smithsonian Institution Press, 1979), 249-93.
- "A policy for the advancement of science: the Rockefeller Foundation, 1924-1929." *Minerva* 16 (1978): 480-515.
- "Walter Fletcher, F. G. Hopkins, and the Dunn Institute of Biochemistry, a case study in the patronage of science." *Isis* 69 (1978): 331-55.
- "Rudolf Schoenheimer, isotopic tracers, and the dynamic state." *Historical Studies in the Physical Sciences* 8 (1977): 257-98.
- "The management of science: the experience of Warren Weaver and the Rockefeller Foundation program in molecular biology." *Minerva* 14 (1976): 279-306.
- "The history of biochemistry, a survey." Journal of the History of Biology 8 (1975): 275-318.
- "G. N. Lewis's views on bond theory, 1900-1916." *British Journal for the History of Science* 8 (1975): 233-39.
- "Lavoisier's rediscovery of the air from mercury calx: a reinterpretation." Ambix 22 (1975): 52-57.
- "The reception of the Lewis-Langumir theory of the chemical bond and the chemical community." *Historical Studies in the Physical Sciences* 6 (1975): 431-68.

- "Irving Langumir and the octet theory of valence." *Historical Studies in the Physical Sciences* 4 (1974): 39-87.
- "The background to Arthur Harden's discovery of coenzyme." *Bulletin of the History of Medicine* 48 (1974): 22-40.
- "The enzyme theory and the origins of biochemistry." Isis 64 (1973): 181-96.
- "The origin of Lavoisier's first experiment on combustion." Isis 63 (1972): 349-55.
- "The origins of G. N. Lewis's theory of the shared pair bond." *Historical Studies in the Physical Sciences* 3 (1971): 343-76.
- "The reception of Eduard Buchner's discovery of cell-free fermentation." *Journal of the History of Biology* 5 (1971): 327-53.
- "The background to Eduard Buchner's discovery of cell-free fermentation." *Journal of the History of Biology* 4 (1971): 35-61.