

Leo B. Slater
2032 Belmont Road, NW, Apt. 407
Washington, DC 20009 USA
202-248-0603
leobslater@yahoo.com

EDUCATION

- 9/92-9/97 PRINCETON UNIVERSITY, Princeton, NJ. Ph.D. & M.A. degrees in History.
Generals Fields: *American Cultural History since 1876* (with Daniel T. Rodgers), *History of the Physical Sciences since 1850* (with M. Norton Wise), and *The Scientific Revolution* (with Michael S. Mahoney).
Dissertation title: "Organic Synthesis and R. B. Woodward: An Historical Study in the Chemical Sciences." Advisor: M. N. Wise. Other committee members: Angela N. H. Creager & Robert E. Kohler.
- 4/86-1/88 STANFORD UNIVERSITY, Stanford, CA. M.S. degree in Chemistry. Thesis title: "The Chemistry of Carbyne Complexes." Advisor L. McElwee-White.
- 9/81-6/85 BRANDEIS UNIVERSITY, Waltham, MA. B.A. degree in Chemistry.

EXPERIENCE

- 6/07-present HISTORIAN, Naval Research Laboratory, Washington, DC. Manages the history office, oversees oral history program, provides NRL command and staff with historical support. Conducts and publishes original research in the history of science and technology. Responsible for maintaining corporate memory and other preservation duties.
- 8/01-present FELLOW, Institute for Applied Economics, Global Health, and the Study of Enterprise (formerly The Institute for Applied Economics and the Study of Business Enterprise), Johns Hopkins University, Baltimore, MD.
- 1/07-6/07 ACTING DEPUTY DIRECTOR, Office of NIH History and Museum, National Institutes of Health, Bethesda, MD. Responsible for day-to-day running of the History Office, oral history program, answering historical queries, as well as other historical, administrative, and preservation duties.
- 10/06-12/06 ASSOCIATE HISTORIAN, Office of NIH History and Museum, National Institutes of Health. Responsible for oral history program and other historical and preservation duties.
- 9/04-9/06 FELLOW, DeWitt Stetten, Jr., Memorial Fellowship in the History of Biomedical Sciences and Technology, Office of NIH History and Museum & National Institute of Allergy and Infectious Disease, National Institutes of Health.
- 1/04-8/04 VISITING SCHOLAR, Max Planck Institute for the History of Science, Berlin, Germany. Joint appointment in Independent Research Group I (Ursula Klein) and Department III (Hans-Jörg Rheinberger).
- 1/02-1/04 MALARIA RESEARCH HISTORIAN, Malaria Research Institute at the Johns Hopkins University Joint appointment in the Department of Molecular Microbiology and Immunology (Bloomberg School of Public Health) and the Department of History of Science, Medicine, and Technology (Johns Hopkins School of Medicine).
- 2/01-7/01 SENIOR RESEARCH HISTORIAN, Chemical Heritage Foundation, Philadelphia, PA. Responsible for research and writing projects and acts as chief oral historian.
- 12/98-1/01 DIRECTOR, Historical Services, Chemical Heritage Foundation. Responsible for administering all historical, heritage, and educational programming and budgets.

- 7/97-11/98 PROGRAM MANAGER, Chemical Heritage Foundation. Responsible for administering all historical and heritage programming.
- 4/97-6/97 ASSOCIATE HISTORIAN, Chemical Heritage Foundation. Responsible for historical research and administering Oral History Project.
- 8/88-8/92 ASSISTANT SCIENTIST, Schering-Plough Chemical Research Division, Cardiovascular Group, Bloomfield, NJ. Responsible for the synthesis, elaboration, and purification of peptides.

AWARDS AND ACTIVITIES

- 11/11-present Director, Ultimate History Project, <http://www.ultimatehistoryproject.com>.
- 1/10-6/13 National Historic Chemical Landmarks Committee Member, American Chemical Society.
- 12/03-12/12 Associate Editor, *Bulletin for the History of Chemistry*, American Chemical Society.
- 5/09-6/11 Executive Council Member, Society for History in the Federal Government.
- 8/08-9/11 Vice President, Washington Society for the History of Medicine.
- 3/05-3/08 Selection Committee, J. Worth Estes Award, American Association for the History of Medicine. Committee chair 2007-2008.
- 2/01-1/02 John C. Haas Fellowship in the History of the Chemical Industries.
- 2/01 American Association for the History of Medicine, J. Worth Estes Award for an article of outstanding scholarly merit in the history of pharmacology published during the two years preceding the award (for L.B. Slater, "Industry and Academy: The Synthesis of Steroids").
- 8/00-10/02 Organizing Committee of the Commission on the History of Modern Chemistry 2002 Fourth International Conference "Industrial-Academic Relationships in the Chemical and Molecular Sciences" (in association with the International Union of the History and Philosophy of Science/Division of History of Science – UNESCO – IUHPS/DHS).
- 12/98-1/07 Program Panel WGBH/Nova Percy Lavon Julian Project. Two-hour Nova film, "Forgotten Genius," original airdate: 6 February 2007.
- 5/96-8/96 1996 Glenn E. and Barbara Hodsdon Ulliyot Scholarship.
- 9/95-5/96 Edelstein International Studentship for 1995-1996.
- 5/95-8/95 Princeton Association of New England Summer Research Award.
- 6/94-8/94 Mellon Foundation Summer Research Grant.
- 5/93-8/93 Association of Princeton Graduate Alumni Summer Research Assistance Grant.

PUBLICATIONS AND PRESENTATIONS

Books

L. B. Slater, *War and Disease: Biomedical Research on Malaria in the Twentieth Century* (Rutgers University Press, 2009; paperback, 2014). Broadly conceived, *Malaria & War* is a history of infectious disease research in the first half of the twentieth century. The book looks at research choices and materials—particularly chemical compounds tested as drugs against malaria and birds employed as models of human malaria—illustrating the shifting boundaries of what constituted an adequate research model of disease. The book is structured around a detailed historical analysis of the background, development, organization, and legacy of the US antimalarial

program during World War II. Prospectively, the book provides an understanding of the roots of modern biomedicine—analyzing the wartime antimalarial program as a “Manhattan Project” for biomedicine.

Articles

L. Slater, “Molecularization and Infectious Disease Research: The Case of Synthetic Antimalarial Drugs in the Twentieth Century,” in *Biomedicine in the Twentieth Century: Practices, Policies, and Politics*, Caroline Hannaway, ed., *Biomedical and Health Research* v. 72, (Washington, DC: IOS Press, 2008), 287-315.

L.B. Slater and M. Humphreys, “Parasites and Progress: Ethical Decision-Making and the Santee-Cooper Malaria Study, 1944-1949,” *Perspectives in Biology and Medicine*, **51**(1), 2008, 103-20.

L.B. Slater, “Robert Burns Woodward,” entry for the *New Dictionary of Scientific Biography*, finalized and accepted 1/2007.

L.B. Slater, “Chemists and National Emergency: NIH’s Unit of Chemotherapy during World War II,” *Bulletin for the History of Chemistry*, **31**(2), 2006, 75-80.

L.B. Slater, “Malarial Birds: Modeling Infectious Human Disease in Animals,” *The Bulletin of the History of Medicine*, **79**, 2005, 261-94.

L.B. Slater, “Malaria Chemotherapy and the ‘Kaleidoscopic’ Organization of Biomedical Research during World War II,” *Ambix*, **51**, 2004, 107-34.

L.B. Slater, “Organic Chemistry and Instrumentation: R. B. Woodward and the Reification of Chemical Structures,” in P.T. Morris, ed., *From Classical to Modern Chemistry: The Instrumental Revolution* (Cambridge, UK: Royal Society of Chemistry, 2002), 212-28.

L.B. Slater, “Instruments and Rules: R. B. Woodward and the Tools of Twentieth-Century Organic Chemistry,” *Studies in History and Philosophy of Science*, **33**, 2002, 1-33.

L.B. Slater, “Woodward, Robinson, and Strychnine: Chemical Structure and Chemists’ Challenge,” *Ambix*, **48** (3), 2001, 161-89.

L.B. Slater, “Industry and Academy: The Synthesis of Steroids,” *Historical Studies in the Physical and Biological Sciences*, **30** (2), 2000, 443-80.

T. Sullivan and L.B. Slater, “Organic Chemistry” and “Plastics and Polymers,” in Arne Hessenbruch (ed.), *Reader’s Guide to the History of Science* (Fitzroy Dearborn Publishers: London & Chicago, 2000).

Glenn E. Ullyot, Barbara Hodsdon Ullyot, and Leo B. Slater, “The Metamorphosis of SmithKline & French Laboratories to SmithKline Beecham: 1925-1998,” *Bulletin for the History of Chemistry*, **25** (1), 2000, 16-20.

L.B. Slater, “Sir Derek H. R. Barton,” biographical entry, *Encyclopaedia Britannica*, electronic edition, accepted January 24, 2000.

L.B. Slater, “Robert Burns Woodward,” biographical entry, *Encyclopaedia Britannica*, electronic edition, accepted November 2, 1999.

L.B. Slater, “Quinine’s Natural and Cultural History,” research note in *Chemical Heritage*, **13**, n.2, Summer 1996, 29.

D.C. Dalgarno, L.B. Slater, S. Chackalamannil, and M.M. Senior, “Solution Conformation of Endothelin and Point Mutants by Nuclear Magnetic Resonance Spectroscopy,” *International Journal for Peptide and Protein Research*, **40**, 1992, 515-23.

Book Reviews

Reviewed for *Chemical Heritage Magazine*, **24**(2), 2006, 43: Walter Sneader, *Drug Discovery: A History* (2005).

Reviewed for the *Bulletin for the History of Chemistry*, **31**(1), 2006, 41-2: Philip Ball, *Elegant Solutions: Ten Beautiful Experiments in Chemistry* (2005).

Reviewed for the *Journal of the History of Medicine and Allied Sciences*, **61**, 2006, 99-101: Margaret Humphreys, *Malaria: Poverty, Race, and Public Health in the United States* (2001).

Reviewed for *Bulletin of the History of Medicine*, **77**, 2003, 740-1: Mark Honigsbaum, *The Fever Trail: In Search of the Cure for Malaria* (2001).

Reviewed for *Ambix*, **49**, 2002, 266: *The Bartonian Legacy*, A. I. Scott and P. Potier, eds. (2000).

Reviewed for *Isis*, **91**, 2000, 623-4: William S. Johnson, *A Fifty-Year Love Affair with Organic Chemistry* (1998).

Reviewed (with D. Brock) for *Isis*, **90**, 1999, 820-1: *The Making of the Chemist: The Social History of Chemistry in Europe, 1789-1914*, D. Knight and H. Kragh, eds. (1998).

Papers, Panels & Posters

“From Minitrack to NAVSTAR: The Early Development of the Global Positioning System, 1955-1975,” IEEE Microwave Theory & Techniques Society International Microwave Symposium for 2011, Baltimore, MD, 7 June 2011.

“Many Hats and One Head: Transition at the Naval Research Laboratory History Office,” Society for History in the Federal Government, College Park, MD, 19 March 2009.

“Malaria & War: The US Antimalarial Program in World War II,” Maryland Colloquium on the History of Technology, Science, and Environment, University of Maryland, College Park, MD, 5 March 2009.

“‘Adequate Scientific Protection’: NIH, Imported Malaria, and Public Health,” American Association for the History of Medicine, Halifax, NS, 5 May 2006.

“Antimalarial Drug History: The Development of Plasmochin, Atabrine, and Chloroquine, 1920-1945,” Walter Reed Army Institute of Research, Silver Spring, MD, 2 March 2006.

“The Shape of Infectious Disease Research: Antimalarial Drugs, 1920-1950,” conference on Biomedicine in the Twentieth Century: Practices, Policies, and Politics, NIH, Bethesda, MD, 6 December 2005.

Stetten Lecture, “A History of Service: Malaria Research at NIAID,” NIH, Bethesda, MD, 8 November 2005.

Chaired Session, “Engaging Engineers in the Classroom and Beyond,” Society for the History of Technology (SHOT), Minneapolis, MN, 5 November 2005.

“Antimalarial Drug History: The Development of Plasmochin, Atabrine, and Chloroquine, 1920-1945,” Malaria and Vector Biology Interest Group Seminar, NIAID, NIH, Rockville, MD, 9 September 2005.

“Monkey Malaria in Memphis & Malaya: NIAID and Malaria Eradication in the 1960s,” International Society for History, Philosophy, and Social Studies of Biology, Guelph, Ontario, 14 July 2005.

“Organizing Biomedical Research: The US Antimalarial Program during World War II,” Institute for Philosophy, University of Regensburg, Regensburg, Germany, 4 May 2004.

“Malaria & War: The US Antimalarial Program in World War II,” Research Institute, Deutsches Museum, Munich, Germany, 3 May 2004.

“Malarial Birds: Modeling Infectious Human Disease in Animals,” Max Planck Institute for the History of Science, Berlin, Germany, 24 February 2004.

Invited paper, “Biomedical Research in the Twentieth Century: The Case of the US Antimalarial Program in World War II,” Institute for the History of Medicine, Ruprecht Karls University, Heidelberg, Germany, 8 January 2004.

“Chloroquine Resistance: Ecological Inevitability?” American Society for Environmental History, Providence, RI, 27 March 2003.

“Chloroquine Resistance in Malaria: The Natural History of Disease,” Department of the History of Science and Technology, Johns Hopkins University, Baltimore, MD, 20 March 2003.

“Chemical Control of Malaria: From Early Animal Models to Chloroquine,” Malaria Research Institute, Malaria Day 2003, Baltimore, MD, 24 February 2003.

“Animal Models of Infectious Disease: Avian Malaria, Parasite Biology, and Drug Discovery,” History of Medicine Seminar, Biomedical Research History Interest Group, NIH, Bethesda, MD, 13 February 2003.

“Modeling Disease: Avian and Human Malaria, 1880-1943,” Johns Hopkins Program in the History of Science, Medicine, and Technology, Spring Colloquia 2003, Baltimore, 29 January 2003.

“The Chemical Control of Malaria: Chemotherapy and Cooperative Research,” IUHPS/DHS Commission on the History of Modern Chemistry (CHMC), “Industrial-Academic Relationships in the Chemical and Molecular Sciences,” Philadelphia, 3-5 October 2002.

Speaker and Moderator, The Gordon Cain Conference 2002, “Analyzing and Theorizing Governance,” Philadelphia, 5-6 April 2002.

Invited paper, “Recovering a Usable Past: Oral History and the Chemical Sciences,” Society for the History of Alchemy and Chemistry, London, UK, 23 November 2000.

Discussant, International Colloquium on “The Global Chemical Industry since the Petrochemical Revolution,” Milan, Italy, 19-21 October 2000.

Tracy L. Sullivan and L.B. Slater, “Harvey Washington Wiley: Leading the Fight for a Pure Food and Drug Act,” American Chemical Society (ACS) 220th National Meeting, Washington, DC, 20 August 2000.

Chaired session, “Producing Reliability, Reliable Production: Wartime, Cold War, and Industrial Contexts of Technological Dependability,” SHOT, Munich, Germany, 18 August 2000.

“Organic Chemistry and Instrumentation: R. B. Woodward and the Reification of Chemical Structures,” IUHPS/DHS – CHMC, “From the Test-tube to the Autoanalyzer: The Development of Chemical Instrumentation in the Twentieth Century,” London, UK, 11 August 2000.

Invited lecture, “The Evolution of the North American Chemical Industry,” Diamond Jubilee Annual Meeting of the Color Pigments Manufacturers Association, Inc., The Greenbrier, White Sulphur Springs, WV, 20 June 2000.

“A Career in Steroid Chemistry: Percy Lavon Julian and the Intersections of Science, Business, and Identity,” History of Science Society (HSS), Pittsburgh, PA, 5 November 1999, and organized session: “Personal Identity and Scientific Practice.”

Panelist: “Web as Information Medium for Scholarly Interchange: Implications for Societies/Historians,” Invitational Conference: “Using the World Wide Web for Historical Research in the History of Science & Technology,” sponsored by the Alfred P. Sloan Foundation, Stanford, CA, 20 August 1999.

N.D. Heindel and L.B. Slater, “Percy L. Julian Viewed as a Medicinal and Synthetic Chemist,” Presidential Session of the ACS 217th National Meeting, Anaheim, CA, 22 March 1999.

Chaired session: “Comparative Perspectives on Academic-Industrial Relations in Twentieth-Century Chemistry,” HSS, Kansas City, MO, 23 October 1998.

“Quinine, Malaria Chemotherapy, and the Pharmaceutical Industry,” SHOT, Baltimore, MD, 16 October 1998, and organized session: “New Approaches to Understanding the Evolution of Chemical Technologies.”

“Malaria Chemotherapy and the Rise of the Pharmaceutical Industry,” the ACS 216th National Meeting, Boston, MA, 23 August 1998.

“Stabilizing the Invisible: Spectroscopy and Molecular Structure in Twentieth-Century Organic Chemistry,” Pacific Conference on Chemistry and Spectroscopy, Irvine, CA, 22 October 1997.

“R. B. Woodward: Portrait of a Chemist as a Young Man,” ACS Philadelphia Section, 17 April 1997.

“Stabilizing the Invisible: Molecular Structure in Twentieth-century Organic Chemistry,” HSS, Atlanta, GA, 9 November 1996.

“R. B. Woodward: Portrait of a Scientist as a Young Man,” ACS Delaware Section, 22 May 1996.

M.M. Senior, D.C. Dalgarno, L.B. Slater, S. Mittelman, C.A. Evans, H. Van Le, P. Trotta, and T.L. Nagabushan, “1H Sequential Assignments and Secondary Structural Analysis of the C-Terminal Peptide of Interleukin-4,” Sixth Symposium of the Protein Society, San Diego, CA, 25-29 July 1992.

F.C.A. Gaeta and L.B. Slater, “Synthesis and Characterization of Porcine Endothelin and ‘Big Endothelin,’” Eleventh American Peptide Symposium, San Diego, CA, 9-14 July 1989.

OTHER TRAINING

- | | |
|-------------|--|
| 5/10 | National Historical Conference and Naval History Workshop, Naval History & Heritage Command, Navy Yard, Washington, DC. |
| 10/05-11/05 | NIH Clinical Center, “The Ethical and Regulatory Aspects of Clinical Research” course, Bethesda, MD. |
| 7/00 | Padgett-Thompson, “How to Motivate, Manage, and Lead a Team” seminar, New York, NY. |
| 7/00 | Padgett-Thompson, “Leadership in Management Conference,” Valley Forge, PA. |
| 8/99 | American Management Association, “Improving Your Project Management Skills: The Basics for Success” seminar, Philadelphia, PA. |
| 8/98-9/98 | American Management Association, “Successfully Managing People” seminar, Philadelphia, PA. |

PROFESSIONAL ASSOCIATIONS

History of Science Society
Society for History in the Federal Government
Society for the History of Technology