

Curriculum Vita

Mark R. Finlay
Department of History
Armstrong Atlantic State University
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EDUCATION

Ph.D., May 1992
Iowa State University
Program in the History of Technology and Science
Dissertation title: "Science, Practice and Politics: German Agricultural
Experiment Stations in the Mid-Nineteenth Century"

M.A., May 1988
Iowa State University
Program in the History of Technology and Science

B.A., May 1982
Grinnell College
Department of History

PROFESSIONAL EMPLOYMENT

Armstrong Atlantic State University

- hired as Assistant Professor in 1992
- awarded early tenure in 1997
- promoted to Associate Professor in 1998
- named Distinguished Professor Teaching & Learning for 1999-2000
- Director of the Honors Program from its founding in 1996 to 2004
- Assistant Dean of Arts and Sciences, 2002-2008
- promoted to Full Professor in 2005
- Interim Dean of Liberal Arts, 2008-present

Course taught at AASU:

Twentieth-Century Europe
History of Modern Germany
History of Nazi Germany
Foundations in Historical Studies: War and the Environment
Foundations in Historical Studies: Germany since 1945
History and Science of Climate Change (team-taught with scientist)
Graduate Seminar: The Industrialization of Europe and the World

Technology and Culture I & II
Seminar in European History: The Darwinian Revolution
Seminar in European History: Science, Religion, and the Past
Seminar in the History of Technology: Industrialization of Savannah
European Historiography
American Economic History
Honors Civilization II
Interdisciplinary Ethics and Values
Interdisciplinary Ethics and Values: Honors Section
Ethics and Values in History: Technology and Values
World Civilization I & II
Introduction to American History II

Tallinn Pedagogical Institute, Tallinn, Estonia
Visiting Instructor, 2000
The American Experience

University of North Carolina at Charlotte
Lecturer, 1989-92
The Darwinian Revolution
History of Modern Germany
History of 19th Century Europe
History of 20th Century Europe
European History To 1660
European History Since 1660

Johnson C. Smith University
Adjunct Assistant Professor and Instructor, 1989-92
World Civilization I and II
Inquiry in the Social Sciences: The Black Experience

Drake University
Lecturer, 1987-88
Western Civilization I and II

Iowa State University
Teaching Assistant, 1984-87
History of Technology and Engineering I and II
Introduction to Western Civilization I and II
Introduction to American History I and II

RELATED PROFESSIONAL EXPERIENCE

Editorial Board, *Agricultural History*, 2007-2009.

Board of Directors, Society for Industrial Archeology, 2006-2009.

Consultant, Parker/Mudgett/Smith, Architects, Inc., Edison-Ford Winter Estates, Master Plan, 2005-2006.

Board of Directors, Savannah-Ogeechee Canal Society, 2004-present.

Kranzberg Dissertation Fellowship Committee, Society for the History of Technology, 2007-2009.

Consultant, The History Channel, "Modern Marvels" series episode on the history of rubber, 2003-2004.

Consultant, Martin Rosenblum and Associates, Edison-Ford Winter Estates Cultural Landscape Survey, 2000-2001.

Consultant, New South Associates, Historical and Archaeological Survey of the Savannah and Ogeechee Canal, 2000.

Wissenschaftlicher Beirat, [academic advisory board], *Zeitschrift für Agrargeschichte und Agrarsoziologie*, 2003-present.

Editorial Board Member, *Atlanta History: A Journal of Georgia and the South*, 2001-2006.

Robinson Prize Committee, Society for the History of Technology, 2003-2005.

Edwards Award Committee Member, Agricultural History Society, 2001-2004.

Faculty Vice President/President, Georgia Collegiate Honors Council, 2003-2005. Local Arrangements Chair, Annual meeting, February 2004.

Long-Range Planning Committee and Teaching and Learning Committee, National Collegiate Honors Council, 2000-2003.

Test Evaluator, College-Level Examination Program, 2000.

Organizer, Living Ethics at AASU, Third Annual Symposium on Teaching and Learning, 2000.

Participant, Georgia Board of Regents Conference on Teaching and Learning for Recipients of Distinguished Professor Awards, 1999.

Local Arrangements Chair, 28th Annual Meeting of the Society for Industrial Archeology, 1999.

Participant, National Endowment for the Humanities Seminar on Technology and Science in American Culture, Ames, Iowa, 1994.

Elderhostel Instructor, History of American Technology Courses, 1993-1995.

German Script Seminar, The Moravian Archives, Bethlehem, Pennsylvania, June 1988.

Archival Assistant, Department of Special Collections, Parks Library, Iowa State University, 1985.

GRANTS AND AWARDS

William C. Clements Center for Southwest Studies at Southern Methodist University, Travel Grant, 2008

Baylor University Collection of Political Materials, Travel Grant, 2004.

Research and Scholarship Grant, Armstrong Atlantic State University, 2001-2002.

Regents' Teaching Excellence Award, 1999.
-awarded to a single professor among the 12 four-year colleges and universities in Georgia

Chemical Heritage Foundation, Travel Grant, 1997.

State Historical Society of Iowa, Research Grant, 1996-1997.

Liebig-Wöhler-Freundschafts-Preis, co-winner, 1995.
-award for scholarship on the history of German chemistry

Kris Brockmeier Prize, winner 1995.
-Armstrong State College, outstanding young faculty member

Grant Referee, for the Director of the Division of Research Programs, National Endowment for Humanities, 1994.

Garst Fellowship, 1988-1989.

PUBLICATIONS

Growing American Rubber: Strategic Plants and the Politics of National Security (Rutgers University Press, forthcoming, 2009).

"Old Efforts at New Uses: A Brief History of Chemurgy and the American Search for Biobased Materials," *Journal of Industrial Ecology* 7/ 3-4 (2004): 33-46.

"Hogs, Antibiotics and the Industrial Environments of Postwar Agriculture," in *Industrializing Organisms: Introducing Evolutionary History*, Susan R. Schrepfer and Philip Scranton, eds., (New York/London: Routledge, 2004), 237-260.

"Thomas Edison and the Search for a Domestic Rubber Crop," in *Cultural Landscape Report*, Martin Jay Rosenblum, R.A. and Associates, eds. (Ft. Myers: Edison Ford Winter Estates, 2002), II-1-84.

"New Sources, New Theses, and New Organizations in the New Germany: Recent Research on the History of German Agriculture," *Agricultural History* 75 (Summer 2001): 279-307.

"Scientific Education and Rural Culture: The Dissemination of Agricultural Science and German Rural Public, 1850-1914," in *Rural Institutions in the North Sea Countries, 1800-1950*, Jan Bieleman and Leen Van Molle, eds., Proceedings of the 9th CORN Conference: Comparative Rural History of the North Sea Area, forthcoming (submitted May 2001).

"German-British Relations in the History of Nineteenth-Century Chemistry: Personal Friendship, Public Service, and Private Enterprise," in *Prinz Albert und die Entwicklung der Bildung in England und Deutschland im. 19. Jahrhundert*, Franz Bosbach, et. al., eds., (München: Saur, 2000), 189-198.

Editor, *Guidebook to Tours and Sites in Savannah, Georgia*, survey of the industrial and economic history of Savannah, produced for national meeting of the Society for Industrial Archeology, 1999.

"System and Sales in the Heartland: A Manufacturing History of the Hart-Parr Company, 1900-1930," *Annals of Iowa* 57 (Fall 1998): 337-373.

"The Failure of Chemurgy in the Depression-Era South: The Case of Jesse F. Jackson and the Central of Georgia Railway." *Georgia Historical Quarterly* 81 (Spring 1997): 78-102.

"The Savannah and Ogeechee Canal," in *Canal History and Technology Proceedings, Volume XIV*, (Easton PA: Canal History and Technology Press, 1995) 7-31.

“Early Marketing of Theory of Nutrition: The Science and Culture of Liebig's Extract of Meat,” in *The Science and Culture of Nutrition, 1840-1940*, Andrew Cunningham and Harmke Kamminga, eds., (Wellcome Institute Series in the History of Medicine), (Amsterdam: Rodopi, 1995), 48-74.

“Quackery and Cookery: Justus von Liebig's Extract of Meat and the Theory of Nutrition in the Victorian Age,” *Bulletin of the History of Medicine* 66 (1992): 404-418.

“Rehabilitation of an Agricultural Chemist: Justus von Liebig and the Seventh Edition,” *Ambix* 38 (1991): 155-167.

-Republished in *Liebig's Agriculturchemie*, IX. Auflage, 1876, und Supplementband, Wilhelm Lewicki, ed. (Holm: Agrimedia, 1995), 291-303.

“Science and Practice in German Agriculture: Justus von Liebig, Hermann von Liebig, and the Agricultural Experiment Stations,” in *World Views and Scientific Discipline Formation: Science Studies in the German Democratic Republic. Papers from a German-American Summer Institute, 1988*. W. R. Woodward and R. S. Cohen, eds., (Dordrecht: Kluwer Academic Publishers, 1991), 309-320.

“The Industrial Utilization of Farm Products and By-Products: The USDA Regional Research Laboratories.” *Agricultural History* 64 (1990): 41-52.

“The German Agricultural Experiment Stations and the Beginning of American Agricultural Research,” *Agricultural History* 62 (1988): 41-50.

“Dashed Expectations: Henry A. Wallace and the Iowa Progressive Party in 1948,” *Annals of Iowa* 49 (1988): 329-348.

Minor Publications

Encyclopedia entries “Guy M. Gillette,” “Charles W. Hart,” “Damon Catron,” and “Orland R. Sweeney,” for the *Iowa Biographical Dictionary*, State Historical Society of Iowa, forthcoming. Submitted 2006 and 2007.

Encyclopedia entry, “Agriculture, bio-engineered,” for *The First, Second, and Third Industrial Revolutions: An Encyclopedia*, Cynthia Clark-Northrup, ed., (M. E. Sharpe, Inc.) Submitted December 2004.

Encyclopedia entries “Thomas Anderson,” “Joseph Henry Gilbert,” “John Frederick Hodges,” “Sir Bennet Lawes,” “Augustus Voelcker,” and “James Thomas Way,” *Dictionary of Nineteenth-Century British Scientists*. Bernard Lightman, ed., (London: Thoemmes, 2005).

Encyclopedia entries "Farming-Growth Promotion," and "Fertilizers," *Encyclopedia of Twentieth-Century Technology*, Colin A. Hempstead, ed., (New York: Routledge, 2004), 328-329, and 341-342

Encyclopedia entry "Central of Georgia Railroad," *New Georgia Encyclopedia*, John C. Inscoe, ed., Georgia Humanities Council. Available at <http://www.georgiaencyclopedia.org>

Encyclopedia entries "James May Mapes," "Melville Amasa Scovell," and "Horace Edward Stockbridge," *American National Biography* ed. John A. Garraty and Mark C. Carnes (New York: Oxford University Press, 1999), Vol. 14, p. 466, Vol. 19, pp. 519-520, and Vol. 20, pp. 805-806.

Encyclopedia entries "Otto von Guericke" and "Georg Stahl," *Absolutism and the Scientific Revolution, 1600-1720: A Biographical Dictionary*. Christopher Baker, ed. (Westport, CT: Greenwood Press, 2002), 151-152, and 359-360.

Encyclopedia entries "Nutrition" and "Justus von Liebig," *Readers' Guide to the History of Science*, Arne Hessenbruch, ed., (London: Fitzroy Dearborn, 2001), 414-416, and 522-524.

Encyclopedia entries "Agricultural Experiment Stations," "Agricultural Chemistry," and "Wilbur Olin Atwater." *History of American Science in the United States: An Encyclopedia*, Mark Rothenburg, ed., (Westport, CT: Garland, 2001), 13-16, 62-63.

Encyclopedia entries "History of the Agricultural Sciences, (1800-1899)," "Justus von Liebig," and "History of the Agricultural Sciences, (1900-1949)," *Science and Its Times*, Neil Schlager, ed. (Gale Publications, 2000), Vol. 5, 148-151, and 165-166, and Vol. 6, 126-128.

"The Savannah and Ogeechee Canal," *American Canals* # 103 (Autumn 1997): 8-11.

"Bibliography of Recent Research on the History of Sugar Beets," *World Sugar History Newsletter*, #23, December 1996.

"Savannah in the Age of Yellow Fever." Brochure accompanying exhibit on the medical history of Savannah, Savannah History Museum, Spring 1996.

BOOKS REVIEWED

Turning to Nature in Germany: Hiking, Nudism, and Conservation, 1900-1940. By John Alexander Williams. Reviewed for *History: Reviews of New Books* (Submitted 2008)

Food and Conflict in the Age of the Two World Wars. By Frank Trentmann and Flemming Just, eds. Published by H-German@h-net.msu.edu (February 2008).

A History of Florida Forests. By Bayard Kendrick and Barry Walden Walsh. Reviewed for *Florida Historical Quarterly* (Submitted 2007)

Roy D. Chapin: The Man behind the Hudson Motor Car Company. By J. C. Long. Reviewed for *IA: Journal of the Society for Industrial Archeology* (Submitted 2007).

Fermentation: Vital or Chemical Process? (Leiden: Brill, 2006). By Joseph S. Fruton. Reviewed for *Annals of Science*. (Submitted 2007).

Nützliche Schädlinge: Angewandte Entomologie, chemische Industrie, und Landwirtschaftspolitik in der Schweiz, 1874-1952. By Lukas Straumann. Published by H-German@h-net.msu.edu (September 2006).

Die deutsche Textilindustrie zwischen 1933 und 1939: Staatsinterventionismus und ökonomische Rationalität. By Gerd Höschle. Published by H-German@h-net.msu.edu (April 2006).

Putting Meat on the American Table: Taste, Technology, Transformation. By Roger Horowitz. *History: Reviews of New Books* 34 (Spring 2006): 82.

Technology's Dilemma: Agricultural Colleges between Science and Practice in Germany, 1860-1934. By Jonathan Harwood. *Minerva* 45/3 (2007): 349-352.

Recasting the Machine Age: Henry Ford's Village Industries. By Howard P. Segal. *History: Reviews of New Books* 34 (Winter 2006): 41-42.

Kalorien, Kautschuk, Karrieren: Pflanzenzüchtung und landwirtschaftliche Forschung in Kaiser-Wilhelm-Instituten 1933-1945. By Susanne Heim. Published by H-German@h-net.msu.edu (July 2005).

The Carriage Trade: Making Horse-Drawn Vehicles in America. By Thomas A. Kinney. *History: Reviews of New Books*. 33 (Spring 2005): 101.

Regulating Railroad Innovation: Business, Technology, and Politics in America, 1840-1920. By Steven W. Usselman. *Railway Preservation News* <http://www.rypn.org/>, posted 23 December 2004.

Tapping the Pines: The Naval Stores Industry in the American South, By Robert B. Outland III. *IA: Journal of the Society for Industrial Archeology* 30/2 (2004): 46-47.

Inventing the Cotton Gin: Machine and Myth in Antebellum America. By Angela Lakwete. *South Carolina Historical Magazine* 105 (July 2004): 230-232.

Profiting from the Plains: The Great Northern Railway and Corporate Development of the American West. By Claire Strom. *Environmental History* 9 (July 2004): 553-555.

Every Farm a Factory: The Industrial Ideal in American Agriculture. By Deborah Fitzgerald. *History: Reviews of New Books* 32 (Spring 2004): 95.

The Brightest Arm of the Savannah: The Augusta Canal, 1845-2000. By Edward J. Cashin. *Georgia Historical Quarterly* 88 (Spring 2004): 147-149.

America As Second Creation: Technology and Narratives of New Beginnings. By David E. Nye. *History: Reviews of New Books* 32 (Winter 2004): 57-58.

Poems in Steel: National Socialism and the Politics of Inventing from Weimar to Bonn. By Kees Gispén. *Isis* 94 (June 2003): 404-405.

Making and Selling Cars: Innovation and Change in the U.S. Automotive Industry. By James M. Rubenstein. *History: Reviews of New Books* 31 (Winter 2003): 56.

German Agriculture in Transition: Society, Politics and Environment in a Changing Europe. By Geoff A. Wilson and Oliva J. Wilson. *Agricultural History* 76 (Fall 2002): 736-737.

Morastwelt und Paradies: Ökonomie und Ökologie in der Landwirtschaft am Beispiel der Meliorationen im Westfalen und Brandenburg (1830-1880). By Rita Gudermann. *Agricultural History* 76 (Summer 2002): 614-616.

Enriching the Earth: Fritz Haber, Carl Bosch, and the Transformation of World Food Production. By Vaclav Smil. *British Journal for the History of Science* 32 (2002): 121-122.

American Technology (Blackwell Readers in American Social and Cultural History, 7). Ed. by Carroll Pursell. *History: Reviews of New Books* 30 (Winter 2002): 52.

Einstein's German World. By Fritz Stern. *German Studies Review* 35 (May 2002): 368-369.

Consumers in the Country: Technology and Social Change in Rural America. By Ronald L. Kline. *History: Reviews of New Books* 29 (Spring 2001): 104-105.

Die Rübenzuckerindustrie in Hannover: Zur Entstehung und Entwicklung eines landwirtschaftlich gebundenen Industriezweigs von den Anfängen bis zum Beginn des Ersten Weltkriegs. (Beiträge zur Wirtschafts- und Sozialgeschichte, 83). By Uwe Wallbaum. *World Sugar History Newsletter* #30 (June 2000): 1-2.

Productive Men, Reproductive Women: The Agrarian Household and the Emergence of Separate Spheres during the German Enlightenment. By Marion W. Gray. *History: Reviews of New Books* 29 (Fall 2000): 32-33.

Mount Dearborn Military Establishment. Compiled by Joe B. Burgess. *IA: Journal of the Society for Industrial Archeology* 26/2 (2000): 91-92.

Wissenschaftspopularisierung im 19. Jahrhundert: Bürgerliche Kultur, naturwissenschaftliche Bildung und die deutsche Öffentlichkeit, 1848-1914. By Andreas Daum. *Historical Studies in the Physical Sciences* 30/2 (2000): 482-483.

Cotton, Fire, & Dreams: The Robert Findlay Iron Works and Heavy Industry in Macon, Georgia, 1839-1912. By Robert S. Davis, Jr. *IA: Journal of the Society for Industrial Archeology* 26/1 (2000): 117-118.

Reading the Book of Nature: The Other Side of the Scientific Revolution. Ed. by Allen G. Debus and Michael T. Walton. *Discoveries: South-Central Renaissance Conference Newsletter* 16/2 (Spring 1999): 8.

Canal History and Technology Proceedings, Vol. 18. Ed. by Lance E. Metz. *IA: Journal of the Society for Industrial Archeology* 26/1 (2000): 119-120.

The Living Land: Agriculture, Food and Community Regeneration in Rural Europe. By Jules Pretty. *Agricultural History* 74 (Winter 2000): 114-116.

Mastering the Market: The State and the Grain Trade in Northern France, 1700-1860. By Judith A. Miller. *History: Reviews of New Books* 28 (Fall 1999): 25-26.

Endless Novelty: Specialty Production and American Industrialization, 1865-1925. By Philip Scranton. *Annals of Iowa* 58 (Winter 1999): 101.

The Potato: How the Humble Spud Rescued the Western World. By Larry Zuckerman. *History: Reviews of New Books* 28 (Spring 1999): 136-137.

Justus von Liebig: The Chemical Gatekeeper. By William H. Brock. *Science* 280 (24 April 1998): 540.

Sowing Modernity: America's First Agricultural Revolution. By Peter D. McClelland. *Annals of Iowa* 57 (Fall 1998): 378-380.

What Nature Suffers to Groe: Life, Labor and Landscape on the Georgia Coast, 1680-1920. By Mart A. Stewart. *Atlanta History* 41 (Fall 1997): 55-56

Red Clay, Pink Cadillacs, and White Gold: The Kaolin Chalk Wars. By Charles Seabrook with Marcy Louza. *Atlanta History* 40 (Fall 1996-Winter 1997): 59-60.

Crusading for Chemistry: Charles Herty and the American Chemical Industry. By Germaine M. Reed. *Georgia Historical Quarterly* 80 (Spring 1996): 204-206.

Explaining Epidemics and Other Studies in the History of Medicine. By Charles E. Rosenberg. *New York History* 76 (April 1995): 221-223.

The History of Agricultural Science and Technology: An International Annotated Bibliography. By R. Douglas Hurt and Mary Ellen Hurt. *Technology and Culture* 36 (April 1995): 442-443.

Entitled to Power: Farm Women and Technology, 1913-1963. By Katherine Jellison. *Florida Historical Quarterly* 73 (January 1995): 391-393.

D.C. Heath Co., reviewed nineteenth-century chapters for a proposed textbook in world history, and a textbook on twentieth-century German history. 1992.

Machines as the Measure of Men: Science, Technology, and Ideologies of Western Dominance. By Michael Adas. *Physis* n.s. 28 (1991): 1012-14

REVIEW ESSAYS

"Mastering the Vocabulary of Meat: A Review Essay," *Annals of Iowa* 67 (Spring-Summer 2008): 75-81

Tied to the Great Packing Machine: The Midwest and Meatpacking. By Wilson J. Warren; and *Putting Meat on the American Table: Taste, Technology, Transformation.* By Roger Horowitz.

Review essay, *Isis* 81 (September 1990): 582-584:

Entwicklung und Institutionalisierung der Agriculturnchemie im 19. Jahrhundert: Liebig und die landwirtschaftlichen Versuchsstationen. By Ursula Schling-Brodersen; and *Justus von Liebig und Julius Eugen Schlossberger in ihren Briefen von 1844-1860: Zugleich ein Beitrag zur Geschichte physiologischen Chemie in Tübingen.* Ed. by Fritz Hesse and Emil Heuser.

SCHOLARLY PAPERS PRESENTED

“Managing Strategic Resources: The Struggle for a Natural Rubber Reserve in the American West,” Managing the Unknown: Natural Reserves in Historical Perspective, Workshop at the German Historical Institute, Washington DC, February 2008.

“What Ever Happened to ‘Shorty’?: Power, Knowledge, and Industrial Espionage in an American Steel Mill,” North American Labor History Conference, Wayne State University, October 2006.

“Plant Science on the Grand Scale: The Emergency Rubber Project of World War II,” Agricultural History Symposium, Cornell University, September 2004.

“Big Oil vs. Small Farmers: The Defeat of Chemurgy and Rise of Synthetic Rubber in World War II,” American Society for Environmental History, Providence, March 2003.

“International Science and Local Control: The Agricultural Sciences and Baltic German Identity,” Association for the Advancement of Baltic Studies, Baltimore, June 2002.

“Antibiotics and the Industrial Environments of the Postwar Pig,” Industrializing Organisms Conference, Rutgers University, April 2002.

“Thomas Edison and the Search for a Domestic Rubber Crop: A Study in the Conflicts of Agricultural and Technological Research,” Society for the History of Technology, San Jose, October 2001.

“The Origins of ‘Farm-aceuticals’: How Antibiotics Came to Be Used in Agriculture,” Conference on Bacterial Resistance to Antibiotics, The Johns Hopkins University, April 2001. Paper co-written with Barbara Kimmelman of Philadelphia University

“Patriotism and Profit: Nationalism and the Agricultural Sciences in the German States, 1810-1850,” German Studies Association, Houston, October 2000.

“State of the Art: The History of Technology and Science,” Organization of American Historians, Midwestern Regional Conference, Iowa State University, July 2000.

“International Science on the Fringes: Agricultural Science and the Language and Culture of Internationalism,” History of Science Society, Pittsburgh, November 1999.

“Scientific Education and Rural Culture: The Dissemination of Agricultural Science and the German Rural Public, 1830-1900,” CORN Conference on Rural Institutions in the North Sea Area, Wageningen, the Netherlands, October 1999.

“German-British Relations in the History of Nineteenth-Century Chemistry: Personal Friendships and International Rivalries,” 18th Conference of the Prinz-Albert-Gesellschaft, e. V., Coburg, Germany, September 1999.

“Agricultural Science, the Public, and the State in Late Nineteenth-Century Germany,” Western Social Science Association, Ft. Worth, April 1999.

“System and Sales in the Tractor Industry: A Manufacturing History of the Hart-Parr Company, 1900-1930,” Iowa Heritage EXPO '97, Des Moines, July 1997.

“Our Friends Who Live in the Soil’: Soil Bacteria, Government Science, and the Legume Inoculation Industry,” American Society for Environmental History, Baltimore, April 1997.

“The Beneficent Bacteria of Nitro-Culture: The History of Legume Inoculation Industries in Germany and the United States,” History of Science Society, Atlanta, November 1996. [delivered in absentia, due to birth of child].

“The Savannah and Ogeechee Canal,” Canal History and Technology Symposium, Lafayette College, March 1995 AND Sixth Annual International Conference on Historic Canals, Augusta, October 1995.

“Connecting Links: Roads, Canals and Railroads,” Georgia Legacies Etched on the Land Conference, Savannah, November 1994.

“The Savannah and Ogeechee Canal Basin: A Nineteenth-Century Industrial Complex in the Southern United States,” Annual Meeting of the Society of Industrial Archeology, Toronto, June 1994.

“Chemugy, Edurgy and Railroad Development in the American South,” Economic and Business History Society, Nashville, 1993.

“Agricultural Education and the German Nation in the Late Nineteenth Century,” Joint Anglo-American Conference on the History of Science, University of Toronto, July 1992.

“Quackery and Cookery: Liebig's Meat Extract and the History of Nutrition in the Victorian Age,” American Association for the History of Medicine, Cleveland, May 1991.

“Soup, Sewage, and Soil Robbery: Justus von Liebig and the Social Problems of the 1860s,” History of Science Society, Seattle, November 1990.

“Chemurgy in the Government: The USDA Regional Research Laboratories,” Symposium on the USDA in Historical Perspective, Iowa State University, June 1989.

“A Subtle Relationship: Justus von Liebig and the Agricultural Experiment Stations,” International Summer School: History and Philosophy of Science, Leipzig, German Democratic Republic, June 1988.

“From Practice to Science: The Death of the German Agricultural Academies, 1860-1870,” Midwest Junto for the History of Science, University of Notre Dame, March 1988.

“German Agricultural Experiment Stations and the Beginning of American Agricultural Research,” Symposium on Publicly Sponsored Agricultural Research in the United States, North Dakota State University, June 1987.

“The Search for Erosion Control and Permanent Agriculture in Oklahoma, 1929-1935,” Western Social Science Association, El Paso, April 1987.

“Building a Coalition: Agricultural Science in Saxony, 1830-1850,” Missouri Valley History Conference, Omaha, March 1987.

“Dashed Expectations: Henry Wallace, Fred Stover, and the Iowa Progressive Party in 1948,” Missouri Valley History Conference, Omaha, March 1986.

“Hermann Hellriegel and the Answer to the Nitrogen Question,” Midwest Junto for the History of Science, John Carroll University, March 1986.

INVITED SCHOLARLY LECTURES

“American Rubber for War and Peace: The Struggle for a Domestic Rubber Crop in California and Beyond,” College of Science, California Polytechnic Institute, Pomona, California, September 2007.

“Resistance to Domestic Rubber Crops and the Emergency Rubber Project, 1942-1945,” Workshop in the History of Agriculture and Environment, University of Georgia, Athens, Georgia, September 2007.

"History and Preservation Efforts of the Savannah Ogeechee Canal," World Canals Conference, Bethlehem, Pennsylvania, September 2006.

-Similar talk given before the Historic Preservation Committee of the Metropolitan Planning Commission, Savannah, Georgia.

"The Chemurgy Movement: Historical and Participant Perspectives" [co-presented with Mr. Harold Brock]. Office of Biorenewable Resources, Iowa State University, Ames, October 2004.

"The Living Soil: Soil Bacteria, Ecology, and Social Cooperation," American Phytopathological Society, Anaheim, August 2004.

"The Central of Georgia Railway," Coastal Georgia Historical Society, St. Simons Island, Georgia, July 2004.

"Hogs, Antibiotics, and the Industrial Environments of Postwar Agriculture," School of History, Technology, and Society, Georgia Institute of Technology, April 2003.

"Divided Memories: Postwar Germans' Perspectives on the Past," International Programs, Valdosta State University, February 2003.

"Charles Herty, Henry Ford, and Thomas Edison and the Search for a Domestic Rubber Crop in Georgia and Florida," Plenary Session Dedicating Memorial to C. H. Herty, Southeast Regional Meeting of the American Chemical Society, September 2001.

"Hermann Hellriegel und die Amerikaner," [keynote speech, in German], International wissenschaftliche Konferenz anlässlich des 100. Todestages Prof. Dr. Hermann Hellriegel, Fachhochschule Anhalt, Bernburg, Germany, September 1995.

"Justus von Liebig and the Internationalization of Science," Symposium on Das publizistische Wirken Justus von Liebig's, Gießen, Germany, September 1995.

"Technology and Culture: A Historical Assessment," Brunswick College chapter of Phi Alpha Theta, Brunswick, Georgia, May, 1994 AND Wesleyan College, Phi Theta Kappa Regional Honors Institute, Macon, Georgia, July, 1994.

"Applied and Misapplied Science: Careers in Chemistry in the Nineteenth Century," American Chemical Society, Savannah Chapter, May 1993.

"Meat, Medicine and Marketing in the Late Nineteenth Century," North Carolina Society for the History of Medicine, Wake Forest University, September 1991.

TALKS ON PEDAGOGY

Co-presenter and panelist, "Pathways into a New Area of Learning: Reform and Innovation in the Core Curriculum of the University System of Georgia," American Association of Colleges and Universities, San Francisco, January 2005.

"Getting to the Core of Diversity" [with Ed. R. Wheeler and Teresa Winterhalter], Stepping Up to the Plate in Diversity Education, Kennesaw State University, April 2003.

"The Joy of Research," Order of Cum Laude ceremony, Savannah Country Day School, Savannah, April 2003.

"The Class with Sixteen Texts: Interactive Teaching and Learning in the Honors Curriculum," National Collegiate Honors Council, Chicago, October 1998.

CONFERENCE CHAIR, PANELIST, or COMMENTATOR

Panelist and Commentator, Workshop in the History of Environment, Agriculture, Technology, and Science, University of Georgia, Athens, Georgia, October 2007.

Session Chair and Commentator, Agricultural History Society, Ames, Iowa, June 2007.

Session Chair and Commentator, Agricultural History Society, Cambridge, Massachusetts, June 2006.

Session Chair, Society for the History of Technology, Amsterdam, October 2004.

Session Chair, Society for Industrial Archeology, Providence, June 2004.

Panelist and commentator, The Business of Life: A Century of the Life Sciences, Industry, and Biotechnology in International Perspective, Symposium hosted by the Dibner Institute for the History of Science and Technology, Massachusetts Institute of Technology, April 2004.

Commentator, Economic and Business History Society, Savannah, 1997.

Commentator, Agricultural History Society, Symposium on African Americans in the Rural South, University of North Carolina, 1997.

Commentator, Society for the History of Technology, University of Virginia, 1995.

Commentator, Agribusiness and International Agriculture Symposium, University of Arkansas at Little Rock, 1994.

Commentator, Cotton Gin Symposium, Auburn University, 1993.

Commentator, Graduate History Association Forum, University of North Carolina at Charlotte, 1993 and 1995.

MANUSCRIPT REFEREE

University of Georgia Press

Isis

Technology and Culture

Central European History

Journal of Southern History

Agricultural History

Centaurus

Ambix

Earth Sciences History

Annals of Iowa

MEMBERSHIPS

Society for the History of Technology

History of Science Society

Agricultural History Society

American Society of Environmental History

Center for the History of Chemistry

Arbeitskreis für Agrargeschichte

Society of Industrial Archeology

Coastal Heritage Society

Justus-Liebig-Gesellschaft e. V.

Association for the Advancement of Industrial Crops

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