

PROFESSIONAL POSITIONS

- 2023- : Advisor, Badminton Rec Club, Lafayette College, Easton, PA
2023- : Professor of Engineering Studies, Lafayette College
2020- : Chair of Engineering Studies, Lafayette College
2023: Visiting Research Scholar, Davis Center for History, Princeton University
2017-2023: Associate Professor, Lafayette College
2011-2017: Assistant Professor, Lafayette College
2005-2011: Visiting Assistant Professor, Dept. of Science, Technology & Society (STS),
University of Virginia, Charlottesville, Virginia
2004-2005: Visiting Assistant Professor, Dept. of History, Virginia Tech, Blacksburg, Virginia
2001-2003: Instructor, Center for Interdisciplinary Studies, Virginia Tech
1995-1999: Polymer Processing Research Engineer, The Dow Chemical Company, Midland,
Michigan and Granville, Ohio

EDUCATION

- Ph.D. (2005) Science & Technology Studies, History Track (Virginia Tech)
Dissertation chair: Mark Barrow
M.S. (2001) Science & Technology Studies (Virginia Tech)
B.S. (1995) Chemical Engineering (Virginia Tech)
B.A. (1995) History (Virginia Tech)

PUBLICATIONS

Books

Acquired Tastes: Stories about the Origins of Modern Food, co-edited with Michael Kideckel and Anna Zeide, The MIT Press (2021)

Reviews in *Global Food History*, *Agricultural History*, *Forbes*, *Food, Culture & Society*, *Technology & Culture*, *Food and History*, *Neo.Life*

Pure Adulteration: Cheating on Nature in the Age of Manufactured Food, University of Chicago Press (2019; paperback 2022) + purefood.lafayette.edu

Reviews in *Science*, *Times Literary Supplement*, *Journal of American History*, *Environmental History*, *Food, Culture, and Society*, *Literary Review of Canada*, *Ambix*, *H-Solz-Kult*, *Culinary Historians of Canada*, *Journal of the Gilded Age and Progressive Era*, *Agricultural History*, *Social History of Drugs and Alcohol*, and *Choice*

Notes from the Ground: Science, Soil and Society in the American Countryside, Yale University Press (2009), paperback (2011)

Reviews in the *Journal of American History*, *American Historical Review*, *Environmental History*, *Technology & Culture*, *Agricultural History*, *Journal of Southern History*, *Chemical Heritage Magazine*, *Isis*, *Virginia Magazine of History & Biography*, *Organization & Environment*, and as the subject of a roundtable review at H-Environment

Technoscience and Environmental Justice: Expert Cultures in a Grassroots Movement, co-edited with Gwen Ottinger, The MIT Press (2011)

Reviews in *Chemical Heritage Magazine*, *Organization & Environment*, *Social Science Review*, and *Choice*

Scholarly Publications (Articles and Proceedings)

- “Know Your Analyst, Know Your Food?,” in *Interpreting Science in Museums and Historic Sites*, edited by Debra Reid, Karen-Beth Scholthof, and David Vail (Rowman and Littlefield, 2023)
- “Asking ‘Why’ Instead of ‘How’: Outcomes of an Interdisciplinary Degree Program in Engineering Studies,” *Proc. 2021 ASEE Annual Conference*, virtual [co-authored with J. Rossmann, K. Sanford, and S. Shand]
- “Engineering and Environmental Justice,” in the *Routledge Handbook on Philosophy of Engineering* (2020), 687-699
- “The Sociotechnical Core Curriculum: An Interdisciplinary Engineering Studies Degree Program,” *Proc. 2020 ASEE Annual Conference*, Montreal, Quebec [co-authored with K. Sanford, J. Rossmann, and J. Nicodemus]
- “Fence and Fallow,” *New Geographies* 10 (2019): 110-115
- “Greening Lafayette: A Model for Building Sustainable Community,” *International Journal of Sustainability in Higher Education* 19 (2018): 1239-1258 [co-authored with K. Lawrence, A. Armstrong, M. Wilcha, and A. Gatti]
- “Margins and Tensions and the History of Seeds,” essay on Courtney Fullilove, *The Profit of the Earth: The Global Seeds of American Agriculture*, H-Environment Roundtable Review 8 (August 2018): 7-13
- “Undone Earthquakes,” essay on Conevery Bolton Valencius, *The Lost History of the New Madrid Earthquakes*, H-Environment Roundtable Review, 5 (March 2015): 4-9
- “Science, Technology and Society [STS] and Ethics” [co-authored with Steve Cutcliffe (Lehigh U.)] Volume 2 of the *Encyclopedia of Science, Technology, and Ethics* (MacMillan Press, 2015)
- “The Appearance of Being Earnest,” *The Appendix* 3 (October 2014): 37-43
- “The Cultural Ecology of Local Food,” *Gastronomica: The Journal of Critical Food Studies* 14 (Spring 2014): 5-8
- “Introducing Engineering as a Socio-technical Process,” *Proc. 2014 ASEE Annual Conference*, Indianapolis, IN [co-authored with Kristen Sanford and Jenn Rossmann]
- “Response to Roundtable Review of *Notes from the Ground*,” *H-Environment Roundtable Reviews* 3 (4) (April 2013): 23-28, <https://www.h-net.org/~environ/roundtables/env-roundtable-3-4.pdf>
- “The Historical Production (and Consumption) of Unsustainability: Technology, Policy, and Culture,” *The Hedgehog Review* 14.2 (Summer 2012): 37-52
- “Environmentally Just Transformations of Expert Cultures: Toward the Theory and Practice of a Renewed Science and Engineering,” *Environmental Justice* 5 (2012): 158-163 [co-authored with G. Ottinger]

- “Environmental Justice and the Transformation of Science and Engineering,” in *Technoscience and Environmental Justice* (MIT Press, 2011), 1-18 [co-authored with G. Ottinger]
- “Analysis as Border Patrol: Chemists along the Boundary between Pure Food and Real Adulteration,” *Endeavour* 35 (2011): 66-73
- “The Moral Basis of Soil Science and Geology: What the Antebellum Farmer Knew and Why Anyone Cared,” *Physics and Chemistry of the Earth*, 35 (2010): 860-867
- “Embodying STS: Identity, Narrative, and the Interdisciplinary Body,” *Science as Culture*, 19 (March 2010): 1-14 [co-authored with W. Galusky]
- “Three Peasants on Their Way to a Meal: Representing Environmental Intervention from Millet’s *The Gleaners* to Macaroni,” *Environmental History*, 14 (October 2009): 744-752
- “The Once and Future Georgic: Agricultural Practice, Environmental Knowledge, and the Place for an Ethic of Experience,” *Agriculture and Human Values* 26 (3) (2009): 153-165
- “What Makes a Difference? Science and Epistemic Authority in the Early American Republic,” *Historically Speaking* 10 (January 2009): 23-24
- “Virginia’s Modern Environmental History,” in *Encyclopedia Virginia*, www.encyclopediavirginia.net, Virginia Foundation for the Humanities (2008)
- “Surveying Nature: The Environmental Dimensions of Virginia’s First Geological Survey, 1835-1842,” *Environmental History* 11 (January 2006): 38-69
- “Escaping the False Binary of Nature and Culture through Connection: Richard White’s *The Organic Machine: The Remaking of the Columbia River*,” *Organization and Environment* 18 (October 2005): 445-457
- “The Element of the Table: Visual Discourse and the Pre-Periodic Representation of Chemical Classification,” *Configurations* 12 (Winter 2004): 41-75
- “On the Historical Relationship Between the Sciences and the Humanities: A Look at Popular Debates That Have Exemplified Cross-Disciplinary Tension,” *Bulletin of Science, Technology, and Society* 21 (August 2001): 283-295
- “Science and the Humanities: Across Two Cultures and Into Science Studies,” *Endeavour* 25 (Spring 2001): 8-12

Book reviews

- The Chemistry of Fear: Harvey Wiley’s Fight for Pure Food*, by Jonathan Rees, *Social History of Drugs and Alcohol* 36 (September 2022): 325 – 327
- The American Farmer in the Eighteenth Century: A Social and Cultural History*, by Richard Bushman, *Agricultural History* 94 (Winter 2020): 147-149
- A Golden Weed: Tobacco and Environment in the Piedmont South*, by Drew Swanson, *Environmental History* 20 (Spring 2015): 297-299
- The Story of N: A Social History of the Nitrogen Cycle and the Challenge of Sustainability*, by Hugh Gorman, *Agricultural History* 89 (January 2015)
- New Natures: Joining Environmental History with Science and Technology Studies*, ed. Dolly Jørgensen, Finne Arne Jørgensen, and Sara Pritchard, *Environmental History* 19 (Spring 2014): 575-576

Enduring Pastoral: Recycling the Middle Landscape in the Tennessee Valley, by Torben Larsen, *Journal of Southern History* 78 (May 2012): 509-510

Mainstream press publications and community contributions

“Hanna Zeavin on the Power of Teletherapy and History of Technology,” *Public Books* (July 7, 2022)

“Trusting the Grocer,” Recipes Project at *Hypotheses.org* (January 27, 2022)

“Decolonizing the GMO Debate,” *The Counter* (December 16, 2021)

“The Internet is Railroads [The roots of digital racism date back to 19th-century railroads],” *Fast Company* (October 9, 2021) [co-authored with J. Rossmann]

Two short stories in *Dear McSweeney’s* (2021), edited by Daniel Levin Becker (San Francisco, CA: McSweeney’s Publishing)

“Meghan O’Gieblyn on God, Machines, and Intelligence,” *Public Books* (June 15, 2021)

“Ashanté Reese on Food Geographies and Food Justice,” *Public Books* (June 4, 2021)

“Your Food Isn’t ‘Natural’ and It Never Will Be,” at *Wired* (October 8, 2020) [excerpt from *Pure Adulteration*]

“Interview of Donna Riley: Engineering and the Public Trust,” *Public Books* (February 24, 2020)

“The Great Electric Sugar Con,” *PBS American Experience* (January 24, 2020) [excerpt from *Pure Adulteration*]

“Why Do Visions of Farming’s Future Never Involve Farmers?,” *Slate* (June 20, 2019)

“Interview of T.L. Taylor on Gamergate, Live-streaming and E-sports,” *Public Books* (February 27, 2019)

“Interview of Siva Vaidhyanathan on Facebook and Other ‘Anti-social’ Media,” *Public Books* (October 12, 2018)

“Interview of Jill Lepore: On the Challenge of Explaining Things,” *Public Books* (May 24, 2017)

- Re-published in *Thinking in Public*, Columbia University Press (2019)

Three essays for the Lehigh Valley’s “Food in the Public Square” NEH Project:

- "Food as a Means Too, Not Just an End" (April 2, 2016)
- "Forests and Trees, Food Policies and Individuals" (May 14, 2016)
- "Food Justice and Flood Zones" (October 24, 2016)

“Is Environmentalism Best Pursued by Technocratic Means? No, Because Soylent,” *Aeon Ideas*, <https://aeon.co/conversations/is-environmentalism-best-pursued-through-technocratic-means>, June 10, 2015

“Should the FDA Define ‘Natural?’” *New York Times*, November 10, 2014 [op-ed]

Resetting the Table in the Lehigh Valley: A Study of Technology, Nature, and Local Food [executive editor and introductory author for self-published student-written monograph] (Bethlehem, PA: Christmas City Publishing for the Lafayette College Engineering Division, 2014)

- “Interview of Peter Galison on Science, Technology, Art and Film,” *Public Culture* 26.1 (Winter 2014): 79-100
- “Putting Local Food in the Lehigh Valley into Historical Context,” *Lehigh Valley Fresh Food Action Plan [FFAP] Assessment Report*, edited by Lynn Prior of Buy Fresh, Buy Local (Fall 2013): 15-16
- “Days at the Museum,” five-part series at McSweeneys.net about research, art, and nature, <http://mcsweeneys.net/links/museum/> (June 2009-January 2013)
- “Interview of T.J. Jackson Lears, Dean of Cultural Historians,” *Public Books* (May 6, 2013)
- “Honesty, Serendipity, and *The Spice Mill*,” Hagley Museum and Library Newsletter (March 29, 2012)
- “All Praise the Civics of Food Hubs,” *Civil Eats* (September 7, 2012), at civileats.com
- “Micro-interview of Peter Galison, Historian of Science, Filmmaker, Public Intellectual of Space and Time,” *The Believer* 9 (June 2011): passim
- “Interview of Rebecca Solnit: Nature Writer, Environmental Activist, Art Historian,” *The Believer* 7 (September 2009): 43-49
- “Interview of Michael Pollan, Environmental Journalist and Agro-Ethicist,” *The Believer* 5 (April 2007): 63-71
- “Interview of Arnold Davidson, Foucaultian Phenom to Beat All,” *The Believer* 4 (May 2006): 66-73
- “Interview of Marjorie Grene, Living Philosophical Legend,” *The Believer* 3 (March 2005): 65-74

WORK IN PROGRESS

Book project

“How Not to Feed the World: Our Century-long Quest to Produce More Food and Where It’s Led Us Astray”

This book tells the untold history of the birth of Big Ag, while giving voice to those who fought against it. Big Ag has negative connotations today, but how did we get there, who resisted it along the way, and where has it left us? These questions underline a story taking place from 1900 to today. It shows that our dominant, corporate system was put in place by powerful actors under the pretense of seeking to “feed the world.” The book in sum is about how we got to corporate industrial ag, who was sidelined and who fought back along the way, and how the marginalized pave the road to a better future.

AWARDS, GRANTS, HONORS

Visiting Research Scholar, Shelby Cullom Davis Center for History, Princeton University, Spring 2023

Fellowship, Institute for Advanced Study (IAS), Princeton, NJ, Spring 2023 (*honor accepted, award declined*)

Excellence in Community Engagement Pedagogy Award, Landis Center for Community Engagement, Lafayette College, 2022

Consortium of the History of Science, Technology, and Medicine Fellowship, 2018-2019

- Carl R. and Ingeborg Beidleman Research Award (for excellence in applied research or scholarship), Lafayette College, 2017
- American Council of Learned Societies (ACLS) Fellowship, 2015-2016 (*honor accepted, award declined*)
- NEH Grant, “Food and the Community: The Collective Human Experience,” co-PI/expert scholar on grant with Lead PI Prof. Kelly Allen of Northampton Community College, National Endowment for the Humanities, 2015
- Mellon Foundation Digital Humanities Research Grant, Lafayette College, 2014
- Academic Research Committee Research Grants, Lafayette College, 2012, 2014, 2018, 2019
- Ludwick Foundation Grant to support LaFarm Manager (co-PI with Dave Brandes) at Lafayette College, 2013-15
- R.K. Mellon Research Grant, Lafayette College, 2012-13
- NSF Scholar’s Award Grant #0924932, 2010-2011
- Faculty Fellow, Institute for Advanced Studies in Culture, Charlottesville, VA, 2010-2011
- Hagley Museum and Library, Research Grant-in-Aid, 2010
- Smithsonian Research Fellowship, National Museum of American History, 2009-2010
- Chemical Heritage Foundation Research Grants, 2008 and 2010
- Outstanding Dissertation Commendation Award, College of Liberal Arts & Human Sciences, Virginia Tech, 2005
- Outstanding Graduate Student, College of Liberal Arts and Human Sciences, Virginia Tech, 2004-2005
- Andrew Mellon Research Fellow at the Virginia Historical Society, 2003
- Recipient of College of Liberal Arts and Human Sciences Graduate Scholarship, Virginia Tech, 2004
- 2002 Bruns Prize, *Society for Literature, Science, and the Arts* (Best Graduate Student Essay)
- 2001 Graduate Essay Prize, First Place, *National Assoc. of Science, Technology, and Society*
- Principal Investigator, U.S. Patent #6617019, for a Composite Protective Coating for Metal Surfaces (Submitted February 2000; Granted September 2003) [based on research at Dow Chemical]

SELECT RECENT RESEARCH PRESENTATIONS

Talks and interviews about *Pure Adulteration*: at LitHub (December 10, 2019); for The Page 99 Test (December 19, 2019); on *The Road to Now* podcast (February 10, 2020); for Rorotoko.com (March 25, 2020); Nurture Nature Center virtual talk (May 20, 2020); Lafayette Alumni Association Virtual book talk (July 8, 2020); at Public Books (September 29, 2020); on the Food Sleuth Podcast (October 9, 2020); for Consortium for History of Science, Technology, and Medicine author forum (November 24, 2020); on Well-Tempered Podcast (January 21, 2021); for The Greenhouse environmental humanities book series, University of Stavanger (February 22, 2021); for The Recipes Project (January 27,

2022); the Ulucakli Series Alumni talk [Easton, PA] (February 17, 2022); Exxon Mobil Research Club virtual book talk (April 28, 2022); *Not Past It* podcast (April 5, 2023).

Talks and interviews about *Acquired Tastes*: New Books Podcast (August 17, 2021); NewsTalk Ireland Radio (September 1, 2021); *The Road to Now* podcast (October 11, 2021); Princeton Public Library (April 13, 2022).

“Writing History as Creative Non-fiction,” *American Society for Environmental History* (ASEH) conference, Columbus, OH, April 13, 2019

“Acquired Tastes Workshop,” Easton and Bethlehem, PA, June 1, 2018

“Tasting Purity: The Changing Value of Sensory Experience in the Age of Adulteration,” Stop Making Sense Workshop, Chemical Heritage Foundation, Philadelphia, PA, March 10, 2017

“Policing that which Nourishes the Home and Body: A Gilded Age struggle to control purity amidst manufactured foods and global trade,” *OAH*, Providence, RI, 8 April 2016

“STS in the Fields: How Engineering and STS Meet in Sustainable Agriculture Research,” *Society for Social Studies of Science* (4S) Annual Meeting, Denver, CO, 13 November 2015

COURSES TAUGHT

At Lafayette College (2011-)

“Ten Ways to Know Nature,” First Year Seminar 018

“From Plate to Plate: Terroir and the Geology and Agriculture of Food in Italy,” INDS 201

“The History of Technology,” History 215

“Environmental Justice,” EGRS 230

“The Governance of Technology: Engineering and Public Policy,” EGRS/PSTD 251

“Historical Studies in Engineering and Society,” EGRS 281

“Food and Sustainable Societies: History, Environment, Justice,” EVST 315

“Technology and Nature,” EGRS/EVST 373

“Senior Praxis in Environmental Studies,” EVST 400

“Capstone in Engineering Studies: Seminar in Engineering and Society,” EGRS 451

“Sustainable Solutions,” EGRS 480

At the University of Virginia (2005-2011):

“Introduction to Science, Technology, and Society,” STS 1500

“Technology, Nature, and Sustainable Communities,” STS 2500

“History, Technology, and Sustainable Agriculture,” History 2559

“Environmental History,” History 2710

“Technology, Values, and Progress,” STS 4500

“Environmental and Engineering Ethics,” STS 4600

At Virginia Tech (2001-2005):

“U.S. History Survey: From Settlement to Civil War,” History 1115

“U.S. History Survey: From Reconstruction to 9/11,” History 1116

- “History of Science: American Science and Nature from Jefferson to Today,” History 2984
“Science, Technology, and Nature in the Modern World,” STS 3105
“Environmental History,” History 3144
“History of Technology: Ancient Greece to the Industrial Revolution,” HIST/STS 3715
“History of Technology: The Industrial Revolution to the Future,” HIST/STS 3716

SERVICE ACTIVITIES

In the profession and beyond Lafayette

Referee for: Cornell University Press; Oxford University Press; MIT Press; University of Alabama Press; University of California Press; University of Chicago Press; University of Kansas Press; University of North Carolina Press; Bloomsbury Academic; *Environmental History*; *History of Science*; *Isis*; *Technology and Culture*; *Journal of Southern History*; *Radical History Review*; *Agricultural History*; *Western Historical Quarterly*; *Science, Technology, and Human Values*; *Agriculture and Human Values*; *Environmental Justice*; *Environmental Sociology*; *Science and Engineering Ethics*; *International Journal of Sustainability in Higher Education*; *Business History Review*

- 2021- : Advisory Board Member, *Isis*
2020- : Advisory Board Member, *Agricultural History*
2018- : Co-editor for “Public Thinker” series at *PublicBooks.org*
2010- : Founding Advisory Board Member and Associate Editor of book series, “History for a Sustainable Future” at the MIT Press
2015 : National Science Foundation (NSF) Advisory Panel Member
2009-12: NSF Advisory Panel Member
2009-11: Founder and Director of The UVA Food Collaborative
2011: Co-founder of the Morven Summer Institute, Charlottesville, VA
2009-11: Founder and Curator of the Thornton Hall Art Gallery, on the campus of the University of Virginia
2009: Member of Leonardo Da Vinci Medal Committee, awarded by the Society for the History of Technology to an individual who has made an outstanding contribution to the history of technology
2009: Chair of Sally Hacker Prize Committee, awarded by the Society for the History of Technology for best general audience book in the history of technology
2007-09: Member of Sally Hacker Prize Committee

PROFESSIONAL ASSOCIATION AFFILIATION

Membership (past and current) in:

- American Society for Environmental History (ASEH)
- History of Science Society (HSS)
- Organization of American Historians (OAH)
- Society for Social Studies of Science (4S)
- Society for the History of Technology (SHOT)

ADDITIONAL PROFESSIONAL-RELATED WORK

2015-19: Co-host of the award-winning podcast *Various Breads and Butters* with Dr. Simon Tonev on WJRH, 93 episodes at <http://wjrh.org/vbb/>

2006-09: Co-author of “The World’s Fair” academic blog at scienceblogs.com/worldsfair, a publication of Seed Media Group [with Dr. David Ng, Molecular Geneticist at the University of British Columbia]

2005-07: Assistant Editor of McSweeneys.net