

**Employment:**

Full Professor, Chair in the History of Science, Technology, and Innovation, Maastricht University, 2015-present  
Associate Professor, Department of History, Rice University, 2014-2015  
Assistant Professor, Department of History, Rice University, 2007-2014  
Program Manager, Nanotechnology and Innovation Studies, Center for Contemporary History and Policy, Chemical Heritage Foundation, 2005-2007

**Other affiliations:**

Mercator Fellow, Graduiertenkolleg “Transformationen von Wissenschaft und Technik seit 1800: Inhalte, Prozesse, Institutionen,” Bergische Universität Wuppertal, 2023-2027.  
Fellow, Center for Contemporary History and Policy, Science History Institute (formerly Chemical Heritage Foundation), 2007-present  
External collaborator, Interdisciplinary Research Group 1, University of California Santa Barbara Center for Nanotechnology in Society, NSF Grant SES 0531184, 2005-2016  
Rice Cultures of Energy Mellon/Sawyer Seminar participant, 2012-13/member of Rice Center for Energy and Environmental Research in the Human Sciences, 2013-2015

**Degrees:**

Ph.D., Cornell University, in Science and Technology Studies, August 2004  
M.A., Cornell University, in Science and Technology Studies, January 2001  
A.B., Harvard University, (*magna cum laude*) in Engineering Sciences, June 1997

**Fellowships, prizes, and larger grants:**

(with co-PIs Raphaël Lévy, Willem Halffman, and Cyril Labbé) European Research Council Synergy award NANOBUBBLES, project 951393, 2021-2026  
Dutch Research Council (NWO) Vici grant, “Managing Scarcity and Sustainability: The Oil Industry, Environmentalism, and Alternative Energy in the Age of Scarcity,” VI.C.191.067, 2020-2025  
(with Andrew Nelson) Distinguished Contribution to Electrotechnical History, IEEE/Society for the History of Technology, 2014  
Paul Bunge Prize, Hans-R.-Jenemann-Stiftung/German Chemical Society/German Bunsen Society, 2014  
Cushing Memorial Prize, University of Notre Dame Program in History and Philosophy of Science, 2013  
(with Sonali Shah) Industry Studies Association “Rising Stars” Best Paper Award, 2013  
National Science Foundation Scholar’s Award “The Long Arm of Moore’s Law: New Institutions for Microelectronics Research, 1966-2004,” SES 1027160, 2011-12  
Collaborative Research Fellowship (with Hyungsub Choi, Patrick McCray, and Mara Mills) for “Micro-Histories and Nano-Futures: The Co-Production of Miniaturization and Futurism,” American Council of Learned Societies, 2011  
Fellow, Center for Interdisciplinary Research group “Science in the Context of Application,” Universität Bielefeld, in residence June-July 2007  
Gordon Cain Fellowship in Technology, Policy, and Entrepreneurship, Chemical Heritage Foundation, in residence September 2004-June 2005  
Hacker/Mullins Prize for best graduate student paper, American Sociological Association section on Science, Knowledge, and Technology, awarded August 2003

Sloan Foundation/National Bureau of Economic Research, Science and Engineering Workforce Project fellowship, awarded January 2003  
 Lemelson Center for the Study of Invention and Innovation Fellowship, National Museum of American History, in residence June-August 2002  
 Institute of Electrical and Electronics Engineers Electrical History Fellowship, awarded April 2001  
 National Science Foundation Dissertation Improvement Grant number SES 0094582, awarded December 2000  
 Mullins Prize for best graduate student paper, Society for Social Studies of Science, awarded September 2000  
 American Institute of Physics grant-in-aid for dissertation research, awarded August 2000  
 National Science Foundation Graduate Research Fellowship, awarded April 1997

## **Publications:**

### Monographs:

- , *[The Squares: US Physical and Engineering Scientists in the Long 1970s](#)* (MIT Press, 2022).
- , *[The Long Arm of Moore's Law: Microelectronics and American Science](#)* (MIT Press, 2017).
- , *[Instrumental Community: Probe Microscopy and the Path to Nanotechnology](#)* (MIT Press, 2011).

### Reviews of *The Squares*:

- Hunter Heyck, *[Journal of American History](#)* 110.3 (2023): 590-591.  
 Matthew Wisnioski, *[Isis](#)* 114.4 (2023): 891-892.  
 Ben Gross, *[British Journal for the History of Science](#)* 57.1 (2024): 121-123.  
 Amy Sue Bix, *H-Net Online* (October 2023): <https://www.h-net.org/reviews/showrev.php?id=58135>.  
 Stuart Macdonald, *[Prometheus](#)* 38.4 (2023): 447-452.  
 Barbara Hof, *[Technology and Culture](#)* 64.1 (2023): 266-267.  
 Michael D. Gordin, “[The World is Square](#),” *Physics Today* 75.12 (December, 2022): 51-52.  
 [Chosen as one of *Physics Today*'s top five reviewed books of 2022:  
<https://physicstoday.scitation.org/doi/10.1063/PT.6.3.20221214a/full/>.]  
 Ananyo Bhattacharya, “Hip to Be Square,” *Engelsberg Ideas* (October 10, 2022):  
<https://engelsbergideas.com/books/hip-to-be-square/>.  
 David Marcus, “Book Review: How Tech Turned Commercial,” *The Deal* (July 25, 2022):  
<https://pipeline.thedeal.com/article/2ae546fblr4w34uvwfncw/deal-news/features-and-commentary/how-tech-turned-commercial>.

### Reviews of *Long Arm of Moore's Law*:

- David C. Brock, *[Technology and Culture](#)* 62.4 (2021): 1260-1262.  
 Grant W. Shoffstall, *[Contemporary Sociology](#)* 48.3 (2019): 337-339.  
 Scot M. Guenter, *[Journal of American History](#)* 105.3 (2018): 769-770.  
 Thomas Heinze, *[NTM Zeitschrift für Geschichte der Wissenschaften, Technik und Medizin](#)* 26.1 (2018): 111-114.  
 Travis Doom, *[Science and Public Policy](#)* 45.2 (2018): 289-290.  
 Benjamin Gross, *[Physics in Perspective](#)* 20.2 (2018): 212-214.  
 Rebecca Slayton, *[Isis](#)* 109.1 (2018): 232-233.  
 Regina Peldszus, “[The Power of Moore](#),” *New Scientist* (January 28, 2017): 44-45.

### Reviews of *Instrumental Community*:

- Andrew L. Russell, *[Enterprise & Society](#)* 15 (2014): 403-405.

Ann Johnson, [Isis](#) 105 (2014): 251-252.

David C. Brock, “[Network Effects: Communities, Devices, and Disciplines](#),” *Metascience* 23 (2014): 113-116.

John P. DiMoia, “[Projecting the Future: The Shifting Boundaries of Postwar American Science](#),” *Historical Studies in the Natural Sciences* 44.1 (2014): 90-98.

Benjamin Gross, “Books to Note,” *Chemical Heritage Magazine* (Fall/Winter 2013).

Christian Kehrt, *ICON*: 19 (2013): 227-229.

Marina Maestrutti, [Ambix](#) 60.2 (2013): 197-198.

P.W. Hawkes, “[Scribble, Scribble, Scribble](#),” *Ultramicroscopy* 126 (2013): 60-76.

Sean Johnston, [Technology and Culture](#) 54 (2013): 221-223.

Richard M. Simon, [Contemporary Sociology](#) 42.1 (2013): 96-98.

Thomas Kaiserfeld, [Lychnos](#) (2012): 284-286.

Rebecca Slayton, “[An Instrumental Concept](#),” *Social Studies of Science* 42.5 (2012): 787-792.

Sarah Kaplan, [Administrative Science Quarterly](#) 57 (2): 348-352.

Chris Toumey, “[Probing the History of Nanotechnology](#),” *Nature Nano* 7.4 (2012): 205-206.

#### Edited volumes and special issues:

Odinn Melsted, Simone Schleper, and Cyrus C. M. Mody (eds.), special issue: [Black and Green? Environmental Histories of the Oil Industry](#), *Journal of Energy History/Revue d'histoire de l'énergie*, n. 12 (2024).

— (ed.), special issue: The Oil Spillover, *History and Technology* 40.3 (2024).

—, Otto Sibum, and Lissa Roberts (eds.), special issue: [Historicizing Research Integrity and Fraud](#), *History of Science* 58.4 (2020).

Joseph D. Martin and Cyrus C. M. Mody (eds.), [Between Making and Knowing: Tools in the History of Materials Research](#) [A WSPC Encyclopedia of the Development and History of Materials Science] (World Scientific, 2020).

Pierre Teissier, Cyrus C. M. Mody, Brigitte van Tiggelen (eds.), [From Bench to Brand and Back: The Co-Shaping of Materials and Chemists in the Twentieth Century](#) (Cahiers François Viète, 2017).

— (ed.), special issue: [Nano before There Was Nano](#), *Perspectives on Science*, 17.2 (2009).

Dissertation: “Crafting the Tools of Knowledge: The Invention, Spread, and Commercialization of Probe Microscopy, 1960-2000.”

#### Peer-reviewed journal articles:

—, “Where Do, and Should, Science and Science Education Happen?,” *Science and Education* (under review).

Michiel Bron and Cyrus C. M. Mody, “Scientific Instruments and/as Oil Spillovers,” *Nuncius* (under review).

Ineke Malsch, Egon Willighagen, Candida F. Sánchez Burmester, and Cyrus C. M. Mody, “Ethical Impact Assessment of Sharing Nanosafety Data,” *Open Research Europe* (under review).

Stefan Gaillard, Cyrus Mody, and Willem Halffman, “[Overpromising in Science and Technology: An Evaluative Conceptualization](#),” *Journal for Technology Assessment in Theory and Practice* 32.3 (2023): 60-65.

—, “[Spillovers from Oil Firms to the US Semiconductor and Computing Industries: Smudging Public-Private Distinctions and Retelling Conventional Narratives](#),” *Enterprise & Society* 24.3 (2023): 676-701.

—, “[Square Scientists and the Excluded Middle](#),” *Centaurus* 59.1-2 (2018): 58-71.

- , [“Ethics in Nano Education, but First the Ethics of Nano Education,”](#) *2018 IEEE Nanotechnology Materials and Devices Conference* (2018): 146-151.
- , [“Academic Centers and/as Industrial Consortia: US Microelectronics Research 1976-2016,”](#) *Management & Organizational History* 12.3 (2017): 285-303.
- , [“Between Research and Development: IBM and Josephson Computing,”](#) *Physics Today* 69.10 (2016): 32-38.
- , [“After the IC: Jack Kilby’s Solar Misadventure,”](#) *IEEE Spectrum* 53.10 (2016): 50-55.
- Kevin F. Kelly and Cyrus C. M. Mody, [“The Booms and Busts of Molecular Electronics,”](#) *IEEE Spectrum* 52.10 (October 2015): 53-60.
- and Andrew J. Nelson, [“‘A Towering Virtue of Necessity’: Computer Music at Vietnam-Era Stanford,”](#) *Osiris* 28 [Music in the Laboratory] (2013): 254-277.
- , [“Santa Barbara, Physics, and the Long 1970s,”](#) *Physics Today* 66.9 (September, 2013): 31-37.
- and Hyungsub Choi, [“From Materials Science to Nanotechnology: Institutions, Communities, and Disciplines at Cornell University, 1960-2000,”](#) *Historical Studies in the Natural Sciences* 43.2 (2013): 121-161.
- and Michael Lynch, [“Test Objects and Other Epistemic Things: A History of a Nanoscale Object,”](#) *British Journal for the History of Science* 43.3 (2010): 423-458.
- Hyungsub Choi and Cyrus C. M. Mody, [“The Long History of Molecular Electronics: Microelectronics Origins of Nanotechnology,”](#) *Social Studies of Science* 39.1 (2009): 11-50.
- , [“The Larger World of Nano,”](#) *Physics Today* 61.10 (2008): 38-44.
- , [“Corporations, Universities, and Instrumental Communities: Commercializing Probe Microscopy, 1981-1996,”](#) *Technology and Culture* 47 (2006): 56-80 [reprinted in Suzanne M. Moon and Peter S. Soppelsa (eds.), *The History of Technology: Critical Readings*, vol. 1 (Bloomsbury, forthcoming): ??-??].
- , [“The Sounds of Science: Listening to Laboratory Practice,”](#) *Science, Technology, and Human Values* 30 (2005): 175-198.
- , [“Small, But Determined: Technological Determinism in Nanoscience,”](#) *Hyle/Techné* (special joint issue on nanotechnology) 10 (2004): 99-128 [reprinted in Joachim Schummer and Davis Baird (ed.), *Nanotechnology Challenges: Implications for Philosophy, Ethics, and Society* (New Jersey: World Scientific, 2006): 95-130].
- , [“A Little Dirt Never Hurt Anyone: Knowledge-Making and Contamination in Materials Science,”](#) *Social Studies of Science* 31 (2001): 7-36 [reprinted in Susan Silbey (ed.), *Law and Science, volume II* (Ashgate, 2008): 305-334].
- , [“‘A New Way of Flying’: Différance, Rhetoric, and the Autogiro in Interwar Aviation,”](#) *Social Studies of Science* 30.4 (2000): 513-543.

#### Edited volume contributions:

- Thomas Turnbull and Cyrus C. M. Mody, “The Schuchulik Solar System: The ‘World’s First’ Solar-Powered Village?,” in *NASA and the Environment* [working title], ed. Neil Maher and Brian C. Odom (forthcoming).
- , “Taking the Marks to the Market: The Oil Industry and the Entrepreneurial Turn,” in *Greedy Science: Creating Knowledge, Making Money, and Being Famous in the 1980s*, ed. Michael D. Gordin and W. Patrick McCray (Johns Hopkins, forthcoming): 19-44.
- Thomas Turnbull and Cyrus C. M. Mody, [“Turn and Turn Again: How Big Science Both Helped and Hindered Alternative Energy in the 1970s,”](#) in *Debating the Societal Impact of Big Science in the 21<sup>st</sup> Century*, ed. Panagiotis Charitos, Theodore Arabatzis, Harry Cliff, Günther Dissertori, Juliette Forneris, and Jason Li-Ying (IOP, 2023): 31-1 to 31-21.

- , [“Surveying the Landscape: The Oil Industry and Alternative Energy in the 1970s,”](#) in *Electrical Conquest: New Approaches to the History of Electrification*, ed. Erik Conway and W. Bernard Carlson (Springer, 2024): 51-79.
- , “‘A Competence Which Should Be Used:’ NASA, Social Movements, and Social Problems in the 1970s,” in [NASA in the ‘Long’ Civil Rights Movement](#), edited by Brian C. Odom and Stephen P. Waring, (University Press of Florida, 2019): 183-205.
- , [“Moore’s Regula,”](#) in *Spaces for the Future: A Companion to the Philosophy of Technology*, ed. Ashley Shew and Joseph C. Pitt (Routledge, 2018): 238-247.
- , [“The Diverse Ecology of Electronic Materials,”](#) in Pierre Teissier, Cyrus C. M. Mody, Brigitte van Tiggelen (eds.), *From Bench to Brand and Back: The Co-Shaping of Materials and Chemists in the Twentieth Century* (Cahiers François Viète, 2017): 217-241.
- , [“Après Wiebe le deluge: Water, Engineering, and Politics,”](#) in [Wegwijs in STS: Knowing Your Way in STS](#), ed. Harro van Lente, Tsjalling Swiersta, Sally Wyatt, and Ragna Zeiss (MUSTS, 2017): 59-62.
- , [“The Professional Scientist,”](#) in *A Companion to the History of Science*, ed. Bernard Lightman (Blackwell, 2016): 164-178.
- , “‘An Electro-Historical Focus with Real Interdisciplinary Appeal’: Interdisciplinarity at Vietnam-Era Stanford,” in [Investigating Interdisciplinary Research: Theory and Practice across Disciplines](#), ed. Scott Frickel, Barbara Prainsack, and Mathieu Albert (Rutgers University Press, 2016): 173-193.
- , [“Fabricating an Organizational Field for Research: US Academic Microfabrication Facilities in the 1970s and 1980s,”](#) in *Innovation in Science and Organizational Renewal: Historical and Sociological Perspectives*, ed. Thomas Heinze and Richard Münch (Palgrave Macmillan, 2016): 21-53.
- , “Santa Barbara Physicists in the Vietnam Era,” in [Groovy Science: The Counter-Cultures and Scientific Life](#), ed. David Kaiser and W. Patrick McCray (University of Chicago Press, 2016): 70-107.
- , [“What Do Scientists and Engineers Do All Day? On the Structure of Scientific Normalcy,”](#) in *Kuhn’s Structure of Scientific Revolutions: 50 Years On* [Boston Studies in the History and Philosophy of Science, v. 311], ed. Alisa Bokulich and William J. Devlin (Springer, 2015): 91-104.
- Sonali K. Shah and Cyrus C. M. Mody, “Creating a Context for Entrepreneurship: Examining How Users’ Technological & Organizational Innovations Set the Stage for Entrepreneurial Activity,” in [Governing Knowledge Commons](#), ed. Brett Frischmann, Michael Madison, and Katherine Strandburg (Oxford University Press, 2014): 313-339.
- , “University in a Garage: Instrumentation and Innovation from UC Santa Barbara,” for [Public Universities and Regional Growth: Insights from the University of California](#), ed. Martin Kenney and David C. Mowery (Stanford UP, 2014): 153-179.
- , “Essential Tensions and Representational Strategies,” [Representation in Scientific Practice Revisited](#), ed. Michael Lynch, Steve Woolgar, Janet Vertesi, Catelijne Coopmans (MIT Press, 2014): 223-248.
- , [“Conferences and the Emergence of Nanoscience,”](#) in *The Social Life of Nanotechnology*, ed. Barbara Herr Harthorn and John Mohr (Routledge, 2012): 52-65.
- , [“Conversions: Sound and Sight, Military and Civilian,”](#) in *Oxford Handbook of Sound Studies*, ed. Trevor Pinch and Karin Bijsterveld (Oxford UP, 2012): 224-248.
- , “Climbing the Hill: Seeing (and Not Seeing) Epochal Breaks from Multiple Vantage Points,” in [Science Transformed?: Debating Claims of an Epochal Break](#), ed. Alfred Nordmann, Hans Radder, and Gregor Schiemann (University of Pittsburgh Press, 2011): 54-65.



- , “[Instruments of Commerce and Knowledge: Probe Microscopy, 1980-2000](#),” in *Science and Engineering Careers in the United States: An Analysis of Markets and Employment*, ed. Richard Freeman and Daniel Goroff (University of Chicago Press, 2009): 291-319.
- , “Buckyball and Carbon Nanotubes,” in [Molecules That Matter](#), ed. Raymond J. Giguere (Chemical Heritage Foundation, 2008): 159-176.
- , “Short-Term Implications of Convergence for Scientific and Engineering Disciplines,” in [Nanotechnology: Societal Implications II – Individual Perspectives](#), ed. Mihail C. Roco and William Sims Bainbridge (Springer, 2006): 161-164.
- , “Instruments in Training: The Growth of American Probe Microscopy in the 1980s,” in [Pedagogy and the Practice of Science: Producing Physical Scientists, 1800-2000](#), ed. David Kaiser (MIT Press, 2005): 185-216.
- , “[How Probe Microscopists Became Nanotechnologists](#),” in *Discovering the Nanoscale*, ed. Davis Baird, Alfred Nordmann, and Joachim Schummer (IOS Press, 2004): 119-133.

#### White papers:

- , *Responsible Innovation: The 1970s, Today, and the Implications for Equitable Growth*, available at <http://equitablegrowth.org/report/responsible-innovation/> (Center for Equitable Growth, 2016).
- W. Patrick McCray, Cyrus Mody, Amy Slaton, and Brian Tyrrell, *CNS Synthesis Report 2016: IRG1: Exploring Nanotechnology's, Origins, Institutions, and Communities: A Ten-Year Experiment in Large-Scale Collaborative STS Research* (University of California, Santa Barbara Center for Nanotechnology in Society, 2016).
- , [Institutions as Stepping-Stones: Rick Smalley and the Commercialization of Nanotubes](#) [Studies in Materials Innovation series] (Chemical Heritage Foundation, 2010).
- Hyungsub Choi, Sarah Kaplan, Cyrus C. M. Mody, and Jody Roberts, [Setting an Agenda for the Social Studies of Nanotechnology](#) [Chemical Heritage Foundation Gore Innovation Case Studies Program/William and Phyllis Mack Center for Technological Innovation] (Wharton School, 2008).
- , [Research Frontiers for the Chemical Industrial: Report on the Third Annual SCI-CHF Innovation Day Warren G. Schlinger Symposium](#) [Center for Contemporary History and Policy White Paper Series] (Chemical Heritage Foundation, 2007).
- and Arthur Daemmrich, [Research Frontiers for the Chemical Industrial: Report on the Second Annual SCI-CHF Innovation Day Warren G. Schlinger Symposium](#) [Center for Contemporary History and Policy White Paper Series] (Chemical Heritage Foundation, 2006).
- Arthur Daemmrich and Cyrus Mody, [Innovation Frontiers in Industrial Chemistry: Report on the First Annual SCI-CHF Innovation Day Warren G. Schlinger Symposium](#) [Center for Contemporary History and Policy White Paper Series] (Chemical Heritage Foundation, 2005).

#### Encyclopedia and handbook entries:

- Joseph D. Martin and Cyrus C. M. Mody, “Material Sciences and Engineering,” in *Oxford Handbook of the History of Modern Chemistry*, ed. Carsten Reinhardt (Oxford University Press, under review).
- , “Tracing Oil Money in the Academy,” in *The Historian's Handbook to Saving the World*, ed. Alexandra Hui and Emily Pawley (under review).
- and Joseph D. Martin, “Materials Science,” in *Encyclopedia of the History of Science* (June 2020), accessed 16 June 2020. <https://doi.org/10.34758/6afy-w006>.

- , entries in *WSPC Encyclopedia of the Development and History of Materials Science: Tools of Materials Research*, ed. Joseph D. Martin and Cyrus C. M. Mody (World Scientific, 2020): “Simple Heating” (43-52), “Part II: Introduction” (111-120), “Vacuum Chambers, Pumps, Gauges, and Systems” (141-150), Part III: Introduction” (241-256), “Probe and Other Microscopies” (495-502).
- Joseph D. Martin and Cyrus C. M. Mody, entries in *WSPC Encyclopedia of the Development and History of Materials Science: Tools of Materials Research*, ed. Joseph D. Martin and Cyrus C. M. Mody (World Scientific, 2020): “Introduction: Tools in Materials Research” (1-12) and “Lithography” (327-340).
- , entries in *American National Biography*, ed. Susan Ware: [Richard E. Smalley](#); [Alan MacDiarmid](#); [Rolf Landauer](#) (2018).
- , “[Nanotechnology](#),” in *The Oxford Encyclopedia of the History of American Science, Medicine, and Technology*, ed. Hugh R. Slotten (Oxford UP, 2014).
- , entries in *Encyclopedia of Nanoscience and Society*, ed. David H. Guston and J. Geoffrey Golson (Sage, 2010): “Chronology of Nanoscience”: xxxiii-xliii; “Center for Biological and Environmental Nanotechnology”: 76-78; “IBM”: 325-328; “Interdisciplinary Research Centers”: 348-350; “International Council on Nanotechnology”: 351-353; “Microscopy, Atomic Force”: 416-417; “Microscopy, Electron (Including TEM and SEM)”: 417-419; “Microscopy, Exotic”: 419-421; “Microscopy, Optical”: 421-422; “Microscopy, Scanning Probe”: 423-424; “Microscopy, Scanning Tunneling”: 424-425; and “National Institute of Standards and Technology (U.S.)”: 580-581.
- and David Kaiser, “Scientific Training and the Creation of Scientific Knowledge,” in *Handbook of Science and Technology Studies*, ed. Edward J. Hackett, Olga Amsterdamska, Michael Lynch, and Judy Wajcman, 3<sup>rd</sup> edition (MIT Press, 2008): 377-402.

#### Other publications:

- , “[The Oil Spillover: Prospecting for Oil in Innovation Studies and the History of Technology](#),” *History + Technology* 40.3 (2024).
- Odinn Melsted, Cyrus C. M. Mody, and Simone Schleper, “[Introduction: Joining the Histories of Oil and Environment](#),” *Journal of Energy History/Revue d’Histoire de l’Énergie* #12 (2025): 1a-13a.
- , “Wie ook wint, Europa staat er alleen voor,” *De Limburger* (October 18, 2024).
- , “Maurice Strong, Conspiracy Theories, and the Pitfalls of Environmental Diplomacy,” *NiCHE blog* (May 21, 2024): <https://niche-canada.org/2024/05/21/maurice-strong-conspiracy-theories-and-the-pitfalls-of-environmental-diplomacy/>.
- , “[Editorial: It’s the End, but the Moment Has Been Prepared for](#),” *Engineering Studies* 14.3 (2022): 183-194.
- , “[Editorial](#),” *Engineering Studies* 14.1 (2022): 1-5.
- , “[Standing on Each Other’s Shoulders](#),” *Engineering Studies* 13.3 (2021): 181-184.
- , “[Innovation, Revolution, Change ... and Stasis](#),” *Engineering Studies* 13.1 (2021): 1-5.
- Lissa L. Roberts, H. Otto Sibum, and Cyrus C. M. Mody, “[Integrating the History of Science into Broader Discussions of Research Integrity and Fraud](#),” *History of Science* 58.4 (2020): 354-368.
- , H. Otto Sibum, and Lissa L. Roberts, “[Integrating Research Integrity into the History of Science](#),” *History of Science* 58.4 (2020): 369-385.
- , “[Imagining a Different Past, Present, and Future](#),” *Engineering Studies* 12.3 (2020): 151-156.
- , “[Normal Science in the Time of Corona](#),” *Engineering Studies* 12.1 (2020): 1-7.
- , “[Historical Studies in Which Sciences? The Revolving Door of Science and Technology](#),” *Historical Studies in the Natural Sciences* 50.1-2 (2020): 41-49.

- , “[Editorial: History and Some of Its Uses](#),” 11.2 (2019): 77-82.
- , “[Editorial for Issue 11.1](#),” *Engineering Studies*, 11.1 (2019): 1-4.
- , “Vertical Dis-Integration, Roadmapping, and Bat-Signals,” *Medium* (March 25, 2019), <https://medium.com/whats-at-stake-in-a-fourth-industrial-revolution/vertical-dis-integration-roadmapping-and-bat-signals-181a88ae44be>, accessed March 26, 2019.
- , “[Editorial for Issue 10.2-3](#),” *Engineering Studies*, 10.2-3 (2018): 85-89.
- , “[New EIC Editorial](#),” *Engineering Studies*, 10.1 (2018): 1-11.
- , “What Texas’ Maternal Mortality Stats Teach Us about Science,” *Houston Chronicle* (April 25, 2018), <https://www.houstonchronicle.com/opinion/outlook/article/What-happens-when-scientists-error-Opinion-12861743.php>.
- Pierre Teissier, Cyrus C. M. Mody, Brigitte van Tiggelen, “[Introduction: Material Things, Scales, and Trans-Operations](#),” in Pierre Teissier, Cyrus C. M. Mody, Brigitte van Tiggelen (eds.), *From Bench to Brand and Back: The Co-Shaping of Materials and Chemists in the Twentieth Century* (Cahiers François Viète, 2017): 7-17.
- , [Toward a History of Science from the Perspective of Applied Science](#) [inaugural lecture] (Maastricht University, 2017).
- , “[Ann Johnson, May 28, 1965 – December 11, 2016](#),” *Technology & Culture* 58 (2017): 545-552.
- Cymene Howe *et al.*, “[Paradoxical Infrastructures: Ruins, Retrofit, and Risk](#),” *Science, Technology & Human Values* 41.3 (2016): 547-565.
- , “What Kind of Thing is Moore’s Law,” *IEEE Spectrum Online* (April 6, 2015), <http://spectrum.ieee.org/semiconductors/devices/what-kind-of-thing-is-moores-law>.
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- , “Probe Microscopy: A Transdisciplinary and Transatlantic Instrumental Community,” *Bunsen-Magazin* 16.5 (2014): 214-219.
- , “[STARS: Scanning Probe Microscopy](#),” *Proceedings of the IEEE* 102.7 (2014): 1107-1112.
- , “Integrated Circuits: Material, Social, Spatial,” [Volume](#) [journal of the Columbia Laboratory for Architectural Broadcasting, issue on “counterculture”] 24 (2010).
- , “[Introduction](#) [to special issue on the history of nanotechnology],” *Perspectives on Science* 17.2 (2009): 111-122.
- and W. Patrick McCray, “Big Whig History and Nano Narratives: Effective Innovation Policy Needs the Historical Dimension,” *Science Progress* (<http://www.scienceprogress.org/2009/04/big-whig-history-and-nano-narratives/>), April 6, 2009.
- , Patrick McCray, and Jody Roberts, “[Debating Nanoethics](#)” [invited letter to the editor], *The New Atlantis* 17 (2007): 5-8.
- , “[Garden of Nanotech: A Role for the Social Sciences and Humanities in Nanotechnology](#),” *Chemical Heritage* 25.3 (2007): 38-39.
- , “Chemistry, Microscopy, and the Nanoworld,” *Chemical Heritage* 24.3 (2006): 14-19.
- , “[Nanotechnology and the Modern University](#),” *Practicing Anthropology* [special issue on nanotechnology] 28.2 (2006): 23-27.

#### Essay reviews:

- , “[Visions of Plenty in the Age of Scarcity](#)” [review of *The Visioneers* by Patrick McCray], *The European Legacy* 19 (2014): 637-640.
- , “[Faster-than-Light Reading](#)” [review of *How the Hippies Saved Physics* by David Kaiser], *Social Studies of Science* 42 (2012): 159-164.
- , “[Fact and Friction](#)” [review of *Velvet Revolution at the Synchrotron* by Park Doing], *Metascience* 19 (2010): 493-496.



- , [“How I Learned to Stop Worrying and Love the Bomb, the Nuclear Reactor, the Computer, Ham Radio, and Recombinant DNA”](#) [review of five books on Cold War science and technology], *Historical Studies in the Natural Sciences* 38.3 (2008): 451-461.

#### Ordinary book reviews:

- , *Engineers and the Two Taiwans* by Kuo-Hui Chang, Gary Lee Downey, and Bono Po-Jen Shih, *Technology and Culture* (forthcoming)
- , *Analog Superpowers* by Katherine C. Epstein, *h-diplo* RJISF Roundtable (forthcoming).
- , *Unfinished Nature* by Arpita Roy, *American Ethnologist* (forthcoming).
- , [Chip War](#) by Chris Miller, *h-diplo* RJISF Review Essay 90 (2024).
- , [“Condensed-Matter Titan”](#) [review of *A Mind over Matter* by Andrew Zangwill], *Physics Today* 74.10 (2021): 61-62.
- , [Steps toward a Philosophy of Engineering](#) by Carl Mitcham, *Technology and Culture* 62.2 (2021): 602-604.
- , [The Second Age of Computer Science](#) by Subrata Dasgupta, *Isis* 111.2 (2020): 439-440.
- , [Solid State Insurrection](#) by Joseph D. Martin, *Physics in Perspective* 20.4 (2018): 380-384.
- , [“The Dawning of the Age of Graphene”](#) [review of *Graphene* by Les Johnson and Joseph E. Meany], *Metascience* 27 (2018): 485-488.
- , [The Man Who Saw Tomorrow](#) by Lillian Hoddeson and Peter Garrett, *Physics in Perspective* 20.3 (2018): 307-310.
- , [Innocent Experiments](#) by Rebecca Onion, *Isis* 108.3 (2017): 735-736.
- , [A Companion to the History of American Science](#), *Centaurus* 58.4 (2017): 313-315.
- , [Sharing Knowledge, Shaping Europe](#) by John Krige, *British Journal for the History of Science* 50.1 (2017): 165-167.
- , [“Failures to Compute”](#) [review of *Arguments That Count* by Rebecca Slayton], *Science* 342 (November 15, 2013): 800-801.
- , [Arming Mother Nature](#) by Jacob Darwin Hamblin, *Nature* 499 (July 11, 2013): 151.
- , [Biomedical Computing](#), by Joseph November, *Journal of American History* 99.4 (2013): 1321-1322.
- , [“Limits Be Damned”](#) [review of *The Visioneers* by W. Patrick McCray], *Nature* 493.7430 (3 January, 2013): 24-25.
- , [Makers of the Microchip](#) by Christophe Lécuyer and David C. Brock, *Isis* 103. 1 (2012): 210-211.
- , [Genentech](#) by Sally Smith Hughes, *Bulletin of the History of Medicine* 86.1 (2012): 145-146.
- , [Gravity’s Ghost](#) by Harry Collins, *Contemporary Sociology* 41 (2012): 76-78.
- , [Science-Mart](#) by Philip Mirowski, *Journal of American History* 98.3 (2011): 888-889.
- , [Nanoethics](#) by Dónal P. O’Mathúna, *Technology and Culture* 52.2 (2011): 436-437.
- , *No Small Matter* by Felice C. Frenkel and George M. Whitesides, *Chemical Heritage* 28.2 (2010): 47.
- , [Fermilab](#) by Lillian Hoddeson, Adrienne W. Kolb, and Catherine Westfall, *Technology and Culture* 51.1 (2010): 279-280.
- , [Managing Path-Breaking Innovations](#) by Shantha Liyanage, Rüdiger Wink, and Markus Nordberg, *Technology and Culture* 49 (2008): 514-515.
- , “Nano Pop” [review of three recent works on the history and sociology of nanotechnology], *Chemical Heritage* 25.4 (2007): 45.
- , [Technology, Institutions, and Economic Growth](#) by Richard R. Nelson, *Technology and Culture*. 47 (2006): 817-819.
- , [Aircraft Stories](#) by John Law, *Contemporary Sociology* 33 (2004): 116-117.

### Book cover blurbs:

Katharina C. Cramer and Olof Hallonsten (eds.), *Big Science and Research Infrastructures in Europe* (Edward Elgar, 2020).

Pankaj Sekhsaria, *Nanoscale: Society's Deep Impact on Science, Technology and Innovation in India* (AuthorsUpFront, 2020).

Joris Mercelis, *Beyond Bakelite: Leo Baekeland and the Business of Science and Invention* (MIT Press, 2020).

Joseph D. Martin, *Solid State Insurrection: How the Science of Substance Made American Physics Matter* (University of Pittsburgh Press, 2018).

Nathan Brown, *The Limits of Fabrication: Materials Science, Materialist Poetics* (Fordham Press, 2017).

Michael Riordan, Lillian Hoddeson, and Adrienne W. Kolb, *Tunnel Visions: The Rise and Fall of the Superconducting Super Collider* (University of Chicago Press, 2015).

Anne Marcovich and Terry Shinn, *Toward a New Dimension: Exploring the Nanoscale* (Oxford University Press, 2014).

### **Professional service:**

#### Journals and presses:

Advisory editor, *Journal for the History of Knowledge*, 2025-present.

Advisory editor, *American National Biography*, 2015-present.

Contributing editor, *Technology and Culture*, 2009-present.

Member of the advisory board, *History of Science*, 2016-present.

Member of editorial board, History and Philosophy of Technoscience series (Routledge, publisher; Alfred Nordmann, series editor), 2013-present.

Editor-in-chief, *Engineering Studies*, 2018-2022; member of editorial board, 2023-present.

Advisory editor, *Historical Studies in the Natural Sciences*, 2016-present; member of the editorial board, 2016-2022.

Editorial reappointment review committee, *IEEE Annals of the History of Computing*, 2015.

#### Professional and scientific societies:

Member of Dutch Royal Academy of Sciences (KNAW) commission on effects of the covid-19 pandemic on Dutch and global academic research  
(<https://www.knaw.nl/publicaties/pandemic-academic-how-covid-19-has-impacted-research-community>), 2021-2022.

Scientific committee, European Society for the History of Science, 2022.

Program and local organizing committee, International Conference on the History of Chemistry, 2019.

Program committee, Society for the History of Technology, 2018-2020 (chair 2019).

Joan Cahalin Robinson Prize committee, Society for the History of Technology, 2014-2016 (chair 2015).

Melvin Kranzberg Dissertation Fellowship committee, Society for the History of Technology, 2010-2012 (chair, 2012).

Leonardo da Vinci Medal committee, Society for the History of Technology, 2012, 2015.

Program committee, Society for the Study of Nanoscience and Emerging Technologies, 2010 and 2011 meetings.

### **Peer reviewer for:**

#### Journals:

- *Academy of Management Journal*
- *American Ethnologist*
- *Centaurus*
- *Citizen Science: Theory and Practice*
- *Configurations*
- *East Asian Science, Technology and Society*
- *Engineering Studies*
- *Enterprise & Society*
- *Environmental History*
- *Environmental Innovation and Societal Transitions*
- *Hyle*
- *Historical Studies in the Natural Sciences*
- *History and Technology*
- *History of Political Economy*
- *History of Science*
- *IEEE Annals of the History of Computing*
- *IEEE Spectrum*
- *Information & Culture*
- *Journal of Biomedical Discovery and Collaboration*
- *Journal of Engineering and Technology Management*
- *Journal of Responsible Innovation*
- *Journal of the History of Knowledge*
- *Leonardo*
- *Minerva*
- *Osiris*
- *Physics Today*
- *Proceedings of the IEEE*
- *Research Policy*
- *Scandinavian Journal of History*
- *Science and Technology Studies*
- *Science as Culture*
- *Science and Public Policy*
- *Science Education*
- *Science in Context*
- *Science, Technology & Human Values*
- *Social Studies of Science*
- *Sociology of the Sciences Yearbook*
- *Techné*
- *Technology and Culture*
- *Technology Forecasting and Social Change*
- *Time and Society*

Presses:

- Amsterdam University Press
- Bridgepoint Education
- Cambridge University Press
- CRC Press
- Harvard University Press
- McGill-Queen's University Press

- MIT Press
- Northwestern University Press
- Oxford University Press
- Palgrave Macmillan
- Routledge
- Sean Kingston Publishing
- University of California Press
- University of Chicago Press
- University of Pittsburgh Press

Funding agencies:

- European Research Council
- Nederlandse Organisatie voor Wetenschappelijk Onderzoek [Dutch Research Council]
- South Carolina EPSCoR/IDeA
- US Department of Energy
- US National Science Foundation

Tenure and promotion reviews:

- Colorado School of Mines
- Northwestern University
- Ohio University
- Princeton University
- Purdue University
- University of Virginia
- Wayne State University

**University service:**

Maastricht University:

UM-MUMC-AZM “moonshot” brain trust, S24

FASoS selection committee for vice-dean of research, S24

UM Open Science *boegbeeld* [figurehead], S23-present

BAC (P+T) committee for FASoS professors, S23-present

MUSTS research program director, F21-present

FASoS History Department: chair, S19-S21

FASoS Research Panel: member, F15-S19

FASoS Graduate School: member advisory board, F16-present; director, F17-present

Graduate Program Committee Media, Technology, Innovation: chair, F15-F17; member, F17-present

Rice University:

Center for Energy and Environment Research in the Human Sciences faculty steering committee, F13-present

Parking committee, F12-present

Rice Center for Engineering Leadership internal advisory committee, F09-2015

Wiess College Faculty Associate, S09-2015

First-year common reading committee, S08-2015

Space Futures symposium planning committee, S12-S13

Search committee, Director of Office of Faculty Development, S12

Organizing committee of the Celebration of the 25<sup>th</sup> Anniversary of the Buckminsterfullerene Discovery, S10/F10  
Rice Undergraduate Scholars Program, co-instructor (with Lora Wildenthal and Dan Wagner), S09  
Humanities Research Center, Cultural Studies of Science and Technology coordinator, F08/F09

**Department service:**

Rice University:

History department executive committee, F12-S14  
History department Lunch Lectures & Writing Workshop coordinator, F10-S13  
History department undergraduate committee, F08-S10  
History department graduate committee, F07/S08/S12/S13/S14

**Courses:**

Maastricht University:

ACU2018 Living in a Digital Age, chair of course planning committee 2017/18/19  
RCA5001 The Rules of the Game, coordinator 2016/17/18/19  
PRO1001 Philosophy of Science, tutor 2016/17/course coordinator 2018/19/20  
ACU2710 Entering the Field, coordinator 2017/18/19  
ACU2000 Network Society, tutor 2017  
ACU1504 Entering the Humanities, tutor 2017  
ACU2500 Close to the Foreign, tutor 2017  
ACU2008 Observing & Representing, tutor 2016  
MIN3000/3001/3002 India Minor, course coordinator 2015-16

Rice University:

History 166 “Scientists and Fiction,” S12  
History 233 “Science in the Modern World,” F07, S09, F09, F10, S13, S14, S15  
History/Electrical and Computer Engineering 234 “Technological Disasters” (with Prof. Kevin Kelly), S09, S10, F10, F13, S15  
History 237/Chemistry 235/Anthropology 235 “Nanotechnology: Content and Context” (with Prof. Kristen Kulinowski), F07, F08, F09  
History 317 “20<sup>th</sup> Century Science,” S14, S15  
History 348, “Global Histories of Science,” S12  
History 417 “Perspectives on Silicon Valley,” F08, S13  
History 418 “Science, Technology, and the Cold War,” S08, S10  
History 419 “The Cold War and Climate Change,” F13  
History 533, “Cold War History of Science and Technology,” F14  
History 578, “Prospectus Seminar,” F13, F14

**Smaller grants:**

Head of Rice-UCSB research team awarded Social and Ethical Issues funding through National Nanotechnology Infrastructure Network, NSF Grant ECCS 0335765, 2009-2010  
Head of Rice-UCSB research team conducting historical/ethnographic project for Center for Biological and Environmental Nanotechnology, NSF Grant EEC 0647452, 2009-2010  
Chemical Heritage Foundation travel grant, awarded April 2002

**Graduate and post-graduate supervision**

*Postdoctoral researchers*



Maximilian Roßmann, NanoBubbles digital humanities postdoc, 2021-2025  
Odinn Melsted, Managing Scarcity history of forecasting postdoc, 2020-2024

#### *PhD candidates*

Promotor/co-supervisor, Max Boutell, [Title TBD], PhD dissertation, Maastricht University, ongoing.

Promotor/co-supervisor, Joe Litobarski, The teledemocrats: Transnational networks for electronic democracy before the internet [provisional title], PhD dissertation, Maastricht University, ongoing.

Promotor, Candida Sanchez Burmester, Conferences, knowledge, and nanobiology [provisional title], PhD dissertation, Maastricht University, ongoing.

Co- [secondary] supervisor, Stefan Gaillard, (Over)promises in nanobiology [provisional title], PhD dissertation, Radboud University, ongoing.

Promotor, Jelena Stankovic, The oil industry and solar power, 1968-1986 [provisional title], PhD dissertation, Maastricht University, ongoing.

Member of supervisory team, Monica Vasile, [Reintroduction of animals project], PhD dissertation, Maastricht University, ongoing.

Promotor, Michiel Bron, The Petro-atom: A century of ubiquitous oil involvement in nuclear energy, 1895-1993, PhD dissertation, Maastricht University, 2025.

Member of supervisory team, Georgiana Kotsou, Convention conventions: routines and rituals in international scientific conferences, 1910-1960, PhD dissertation, Maastricht University, 2024.

Promotor, Tsaiying Lu, Carbon continuity: Explaining the changing energy mix of Taiwan's power system after the Second World War, PhD dissertation, Maastricht University, 2024.

Co-promotor, Lea Beiermann, "A co-operation of observers:" Crafting knowledge infrastructures for microscopy, PhD dissertation, Maastricht University, 2023.

Promotor, Mareike Smolka, Ethics in action: Multi-sited engaged ethnography on valuation work in contemplative science, PhD dissertation, Maastricht University, 2022.

Promotor, Dani Shanley, Making responsibility matter: The emergence of Responsible Innovation as an intellectual movement, PhD dissertation, Maastricht University, 2022.

#### *Master's students*

Inês Mendonca Furtado de Almeida, Cultures of Art, Science, and Technology (research master's), Maastricht University, 2026.

Begüm Mestçioğlu, European Studies on Society, Science and Technology, Maastricht University, 2025.

Gianluca Nicu, European Studies on Society, Science and Technology, Maastricht University, 2024.

Riza Sefa Sezgin, European Studies on Society, Science and Technology, Maastricht University, 2023.

Shani de Wit, Digital Cultures, Maastricht University, 2023.

Candida Sanchez Burmester, Cultures of Art, Science, and Technology (research master's), Maastricht University, 2021.

Sannah van Balen, European Studies on Society, Science and Technology, Maastricht University, 2021.

Eleonora Colitti, Globalization and Development Studies, Maastricht University, 2021.

Anton Golaszinski, Globalization and Development Studies, Maastricht University, 2021.

Annabelle Hermans, Arts and Heritage, Maastricht University, 2020.

Elena Giordano, Digital Cultures, Maastricht University, 2020.  
 Inna Zabanova, Digital Cultures, Maastricht University, 2020.  
 Tessa Groen, Cultures of Art, Science, and Technology (research master's), Maastricht University, 2019.  
 Angu Tauga, Globalization and Development Studies, Maastricht University, 2018.  
 Erik Schurer, Cultures of Art, Science, and Technology (research master's), Maastricht University, 2018.  
 Maria Behrens, European Studies on Society, Science and Technology, Maastricht University, 2018.  
 Andine Havelange, European Studies on Society, Science and Technology, Maastricht University, 2018.  
 Mareike Smolka, Cultures of Art, Science, and Technology (research master's), Maastricht University, 2017.  
 Paul Pinxten, Globalization and Development Studies, Maastricht University, 2017.  
 Cami Beekman, History, Rice University, 2016.

### **PhD dissertation assessment**

#### European PhD defense committees:

Opponent, Diederik Jansen, [dissertation title TBD], Maastricht University, 2025.  
 External discussant for the 80% seminar, Thomas Harbøll Schrøder, [dissertation title TBD], KTH Royal Institute of Technology, 2025.  
 Opponent, Machiel Kleemans, The secrecy and science of Cold War atoms in the Netherlands and Norway, PhD dissertation, University of Amsterdam, 2025.  
 External examiner, Mark Cassidy, The promise of power – the power of promise: Sustaining six decades of solid oxide fuel cell research and development, PhD dissertation, University of Strathclyde, 2024.  
 Zweitgutachter, Marie von der Heyden, Selection and placement of the scientific elite: The network of Nobel Prize nominations in physics and chemistry, 1901-1969, PhD dissertation (sociology), Bergische Universität Wuppertal, 2024.  
 Opponent, Daniela Fuchs, Unlocking participation: The dynamics of opening up and closing down in emerging technologies, PhD dissertation, Maastricht University, 2024.  
 Opponent, Imogen Liu, Investing for the State: A finance-sensitive reading of the transnationalisation of Chinese state capital in Europe, PhD dissertation, Maastricht University, 2023.  
 Opponent, Arjan Linthorst, Research between science, society and politics: The history and scientific development of Green Chemistry,” PhD dissertation, Maastricht University, 2023.  
 Chair of assessment committee, Federico Ferretti, Do-it-yourself science and the transformations in science, PhD dissertation, Maastricht University, 2022.  
 Chair of assessment committee, York Mambery, The making of Orpington: British political culture and the strange revival of liberalism, 1958-64, PhD dissertation, Maastricht University, 2021.  
 Opponent, Anna Bon, Intervention or collaboration? Redesigning information and communication technologies for development, PhD dissertation, Maastricht University, 2020.  
 Opponent, Tineke van der Schoor, Strategies for energy reconfigurations: Obduracy, values and scripts, PhD dissertation, Maastricht University, 2020.  
 Chair of assessment committee, Linnea Semmerling, Listening on display: Exhibiting sounding artworks 1960s-now, PhD dissertation, Maastricht University, 2020.

Chair of assessment committee, Marith Dieker, Talking you through: The shifting socio-technical practices of radio traffic news, 1950s-now, PhD dissertation, Maastricht University, 2019.

Chair of assessment committee, Jorijn van Duijn, Fortunes of high-tech: A history of innovation at ASM International, 1958-2008, PhD dissertation, Maastricht University, 2019.

Zweitgutachter, David Pithan, The discursive legitimization of new ideas: Emergence and diffusion of the industrial research laboratory in the United States, 1870-1930, Ph.D. dissertation (Sociology), Bergische Universität Wuppertal, 2019.

Chair of assessment committee, Daniel Stinsky, Sisyphus' palace: The United Nations Economic Commission for Europe, 1947-60, Ph.D. dissertation, Maastricht University, 2019.

Opponent, Andreas Mitzschke, Elusive publics: Understanding techno-scientific controversy and democratic governance in the GM crops debate, Ph.D dissertation, Maastricht University, 2018.

Opponent, Tim van der Heijden, Hybrid histories: Technologies of memory and the cultural dynamics of home movies, 1985-2005, Ph.D. dissertation, Maastricht University, 2018.

Zweitgutachter, Steffi Heinecke, Exploring the post-socialist research landscape: Processes of institutional change in the Polish public science system after 1989, Ph.D. dissertation (Sociology), Bergischen Universität Wuppertal, 2017.

Chair of assessment committee, Simone Schleper, Life on earth: Controversies on the science and politics of global nature conservation, 1960-1980, Ph.D. dissertation, Maastricht University 2017.

Opponent, Rafael Bienia, Role playing, materials, Ph.D. dissertation, Maastricht University, 2016.

Opponent, Pankaj Sekhsaria, Enculturing innovation: Indian engagements with nanotechnology, Ph.D. dissertation, Maastricht University, Maastricht University, 2016.

Opponent, Constance Sommerey, The ghost in the classroom: Ernst Haeckel's rhetoric of evolution and its reverberations in German biology textbooks (1925-1958), Ph.D. dissertation, Maastricht University, 2015.

#### North American dissertation committees:

Stacey Pereira, The social life of a human biological sample: Exploring meaning and value within cancer biobanking, Ph.D. dissertation, Rice University (Anthropology), 2014.

J. Merritt McKinney, Air pollution, politics, and environmental reform in Birmingham, Alabama, 1940-1971, Ph.D. dissertation, Rice University (History), 2011.

Valerie A. Olson, American extreme: An ethnography of astronautical visions and ecologies, Ph.D. dissertation, Rice University (Anthropology), 2010.

#### **Interviews and news articles:**

Weston Twardowski, "How the '70s Changed Energy Forever" (interview with Cyrus Mody, Simone Schleper, and Odinn Melsted), *Gulf Streams* podcast, episode 48 (September 23, 2024): <https://gulfstreams.podbean.com/e/ep-48-how-the-70s-changed-energy-forever/>.

Lee Vinsel, "On the Importance of Square (as in NOT COOL) Scientists and Engineers: A Discussion with Cyrus Mody," *Peoples & Things* podcast on the New Books Network (August 26, 2024): <https://newbooksnetwork.com/the-squares>.

Vincent Janssen, "Complottheorieën en gebedsgenezers: is de **wetenschap** in een crisis," *De Limburger* (June 20, 2024): <https://t.co/boE7JxYTXH>.

Romy Veul, "In the Picture: Cyrus Mody," *UMployee* (April 23, 2024): <https://umployee.maastrichtuniversity.nl/en/about-um/stories/in-the-picture/in-the-picture-cyrus-mody>.

- Florian Raith, "Cyrus Mody: Open Science's critical figurehead," *UM website* (March 27, 2024): <https://www.maastrichtuniversity.nl/news/cyrus-mody-open-science%E2%80%99s-critical-figurehead>.
- Dennis Vaendel, "Debat over 'fossiele banden' van de UM," *Observant* (December 12, 2023): <https://www.observantonline.nl/Home/Artikelen/id/61126/het-liefst-zou-ik-ook-alles-banden-direct-verbreken-maar-kun-je-dan-nog-wel-onderzoek-doen>.
- Elin Fugelsnes, "[Et strålende trekk](#)," *Forskningsetikk* 23.3 (2023): 10-11.
- Anne Roy, "Deux chercheurs plaident pour sortir d'une conception étroite de l'intégrité de la recherche – celle du film *Oppenheimer*," *AEF info* (September 15, 2023): <https://www.aefinfo.fr/depeche/699045>.
- Margot Krijnen, "Observers observed" [profile of Lea Beiermann's PhD project], *UMagazine* (June 2023).
- Jacob Stern, "Silicon Valley's Favorite Slogan Has Lost All Meaning," *The Atlantic* (April 21, 2023): <https://www.theatlantic.com/technology/archive/2023/04/moores-law-defining-technological-progress/673809/>.
- Cleo Freriks, "Dieslezing Mody en toespraak rector Habibović," *Observant* (January 31, 2023): <https://www.observantonline.nl/Home/Artikelen/id/59847/wat-zijn-de-gevolgen-van-onze-innovaties-daar-moeten-we-nu-over-nadenken>.
- Marc Hudson, "Of the long 1970s, non-inevitable oil company denialism and 'nanobubbles': interview with Prof Cyrus Mody" (January 24, 2023): [All Our Yesterdays] <https://allouryesterdays.info/2023/01/24/of-the-long-1970s-non-inevitable-oil-company-denialism-and-nanobubbles-interview-with-prof-cyrus-moody/>
- Maarten van Gestel, "In de jaren zeventig staken oliebedrijven geld in groene energie, daarna in klimaatontkenners. Vanwaar die omslag?," *Trouw* (January 23, 2023): 8-9.
- Edo Beerda, "Flirt tussen 'fossiel' en 'groen' was geen lang leven beschoren" (December 13, 2022): [Dutch Research Council news] <https://www.nwo.nl/cases/flirt-tussen-fossiel-en-groen-was-geen-lang-leven-beschoren> (English version <https://www.nwo.nl/en/cases/brief-flirtation-between-fossil-fuels-and-green-energy>).
- Simon Dequeker and Jaap Tielbeke, "Het lot van de planeet," *De Groene Amsterdammer* 146.15 (April 14, 2022): 38-43.
- Stéphane van Damme, "L'intégrité scientifique a une histoire," *Le Monde* (June 23, 2021).
- Sander Gusinow, "Moore Money, Moore Problems?," *Oregon Business* (May 7, 2019), <https://www.oregonbusiness.com/article/tech/item/18748-moore-s-law-and-more>.
- Interviewed by Paulo Martins for Brazilian Research Network in Nanotechnology, Society, and Environment, [www.nanotecnologiadoavesso.org](http://www.nanotecnologiadoavesso.org) (March 26, 2018).
- John Colapinto, "Material Question," *The New Yorker* December 22 & 29, 2014, 50-63.
- Joseph D. Martin, "A History of Physics in Industry," *History of Physics Newsletter* XII.2 (Spring 2013).
- Michael Dhar, "Big Science: Some See Brain Project as Cultural Apollo of Our Time," *NBC News*, August 20, 2013, <http://www.nbcnews.com/science/science-news/big-science-some-see-brain-project-cultural-apollo-our-time-f6C10962820>.
- Toni Feder, "US Nano Thrust Tilts toward Technology Transfer," *Physics Today* 66.9 (September, 2013): 21-22.
- Franz Brotzen, "Two Rice Profs Named ACLS Fellows and Grantees," *Rice News*, June 11, 2010.
- Andreas Estrada, "National Fellowships Awarded to Scholars in History and English," *93106*, 20.5 (March 2010).
- Lisa A. DuBois, "Uncle Sam: Scientist," and Bill Snyder, "Canary in the Research Lab," *Lens*, Winter 2009: 4-9 and 12-16.

Jessica Stark, “From the Titanic to the Betamax: Interdisciplinary Engineering and Humanities Course Investigates Disasters,” *Rice News*, January 30, 2009.

KTRU News, (October 19, 2008), interview with Carina Baskett.

“Nanotechnology: Where Did It Come From? What Is It For?” (June 25-27, 2007), interview with Benjamin Cohen, *Science Blogs – The World’s Fair*

Laurel Chen, “Mody addresses the politics and the science of silicon chip technologies,” *The Amherst Student*, December 11, 2006.

Science and Society podcast, (July 30, 2006), interview with David Lemberg.

Neil Mukhopadhyay, “Panel discusses ethics in science: Researchers explore issues in nanotechnology,” *The Cornell Daily Sun*, April 12, 2004.

### **Conferences and events organized:**

(with Odinn Melsted and Michiel Bron) Workshop on Alternative Energy Histories (Maastricht: October 20-21, 2025).

(with Odinn Melsted, Simone Schleper, and Christof Mauch) Black and Green? Towards an Environmental History of the Oil Industry (Munich: Rachel Carson Center, June 15-16, 2023).

(with Science History Institute) The History of Energy and Environment: Academic Research vs. Investigative Journalism [panel discussion featuring Neela Banerjee and Paul Sabin] (Philadelphia: Science History Institute, March 16, 2023):  
<https://www.youtube.com/watch?v=ywLjG9WFSyY>.

(with Brigitte van Tiggelen) Science at the Crossroads: Intersections between Academic Research and Journalism on Energy, Environment, and Challenges to Correcting the Scientific Record (Paris: Maison de la Chimie, November 2-4, 2022).

(with Randal Hall and Joe Campana) The Oil Spillover (Houston: Rice University Center for Environmental Studies Cultures of Energy Symposium, May 12, 2022).

(with Lissa Roberts, Willem Halffman, and Otto Sibum) Making It Up: Histories of Research Integrity and Fraud in Scientific Practice (Uppsala: April 12-14, 2018).

(with Ann Johnson and Patrick McCray) Emerging Technologies workshop (Santa Barbara, CA: UCSB Center for Nanotechnology in Society, June 23-25, 2013).

(with Ann Johnson) Instruments in Manufacturing workshop (Houston, TX: Rice University, June 17-18, 2009) [supported by NSF and Rice Humanities Research Center].

(with Sarah Kaplan) Joint Wharton-CHF Symposium on Social Studies of Nanotechnology (Philadelphia, Penna.: Wharton School and Chemical Heritage Foundation, June 7-8, 2007) [referenced in Ivan Amato, “Pacing Nanotechnology,” *Chemical & Engineering News* 85.28 (July 9, 2007): 3].

(with Chi Chan and Arthur Daemmrich) Third Annual CHF-SCI Innovation Day and Schlinger Symposium (Philadelphia, PA: Chemical Heritage Foundation, September 20-21, 2006).

(with Maria Alvarez and Arthur Daemmrich) Second Annual CHF-SCI Innovation Day and Schlinger Symposium (Philadelphia, PA: Chemical Heritage Foundation, September 6-7, 2005).

Nano Before There Was Nano: Historical Perspectives on the Constituent Communities of Nanotechnology (Philadelphia, PA: Chemical Heritage Foundation, March 18-19, 2005) [supported by Gordon and Mary Cain Foundation].

The Significance of Noise (Ithaca, NY: Cornell Science and Technology Studies, April 8-9, 2000).

### **Keynote addresses:**

“What and How Do Businesses #Know about the Environment?” (Brussels: European Business History Association, June 26, 2025).



- “Where Does (and Should) Science and Science Education Happen?” [Springer Lecture] (Buenos Aires: International History, Philosophy, and Science Teaching conference, September 5, 2024).
- (with Lissa Roberts) “Research Integrity: Lessons from the History of Science and Technology” (Paris: European Network of Research Integrity Offices, September 6-8, 2023): <https://www.youtube.com/watch?v=MOWiKk2KLZE>.
- “Who Doesn’t Like Open Science?: A Few Points from Historical and Contemporary Examples” (Maastricht: Open Science Festival, May 25, 2023).
- “The Four Sciences” (Maastricht: keynote lecture at 47<sup>th</sup> Dies Natalis, January 27, 2023): <https://www.youtube.com/watch?v=mQj33AN8M6o&t=2s>.
- “Scientific Conferences: What Are They for, and Why Do They Look the Way They Do?” (Nagoya-Okazaki [online]: AFMBioMed Conference, September 1, 2022).
- “When Do/Did High-Tech Organizations Become More (or Less) Responsible” (Maastricht: S.NET conference, June 25, 2018).

### **Invited talks:**

- “There Is No Such Thing as the Oil Industry, and This Is a History of It” (Golden, CO: Colorado School of Mines Engineering, Design & Society Hybrid Seminar, April 3, 2024): <https://vimeo.com/933475984/9d7c4f419b?share=copy>.
- “NanoBubbles: How, When, and Why Does Science Fail to Correct Itself” (Berlin [online]: colloquium of the Objective 3 of the Berlin University Alliance, February 28, 2024).
- “The Squares” (Paris: CNAM, November 30, 2023).
- “The Long Arm of Moore’s Law” (Paris: Sciences-Po, November 29, 2023).
- “The New (and Old) Geopolitics of Semiconductor Manufacturing” (Amsterdam: University of Amsterdam New Geopolitics of Technology series, September 13, 2023): <https://spui25.nl/programma/chip-wars>.
- “From Scarcity to Denialism: The Oil Industry, Denialism, and Global Environmental Governance, 1968-1986” (Wuppertal: IZWT Research Training Group 2696 colloquium, June 27, 2023).
- “The Squares” (Wuppertal: IZWT Research Training Group 2696 colloquium, June 26, 2023).
- “The Business of Global Environmental Governance: Oil Firms and the Science of Scarcity in the Long 1970s” (Munich: public lecture hosted by the “Cooperation and Competition in the Sciences, 1970s-1990s” group, June 14, 2023).
- “The Squares: US Physical and Engineering Scientists in the Long 1970s” (Zurich [online]: ETH Zurich Chair for Science Studies research colloquium, May 24, 2023).
- “Managing Scarcity and Sustainability: The Oil Industry, Environmentalism, and Alternative Energy in the Age of Scarcity” (Paris: STS-Plateforme Séminaire Science et société dans l’Anthropocène, May 17, 2023): <https://stsplateform.hypotheses.org/1669>.
- “More Money than Sense: Oil Firms, Entrepreneurship, and Misleading Scientific Claims, 1973-1993” (Paris: LISIS seminar, May 15, 2023).
- “From Scarcity to Denialism: The Oil Industry, Alternative Energy, and Global Environmental Governance, 1968-1986” (Taipei: joint event hosted by EASTS, STS and Science Communication cluster of the National ST Council, and the Taiwan STS Association, December 16, 2022).
- “Oil Spillovers, or the Hegemony of Energy in the History of Science, Technology, and Maybe Everything Else” (Houston: Rice University Center for Environmental Studies Cultures of Energy Symposium, May 12, 2022).
- “The Fluidity of Oil: The Scarcity and Abundance of Energy in the Long 1970s” (Philadelphia: CHSTM working group on Science, Capitalism, and Knowledge Commodities, March 23, 2022).

- “The Fluidity of Oil: The Scarcity and Abundance of Energy in the Long 1970s” (Nijmegen: Institute for Science in Society, Radboud University, February 22, 2022).
- “The History of Science and Technology Need an Oil Bath” (Cambridge, UK: Department History and Philosophy of Science colloquium, February 28, 2019).
- “Forty-Plus Years of Organizational Innovation” (Ithaca: Cornell Nanofabrication Facility annual meeting, October 3, 2018).
- “What Comes Next? Post-Apollo NASA and the Problem of Existential Success” (Pittsburgh: Carnegie Mellon SETChange seminar, October 25, 2017).
- “From the Moon to the Earth: Making Space Technology ‘Relevant’ to Social Problems in the 1970s” (Enschede: Twente University STePS program, June 1, 2016).
- “The Countercultural Politics of Interdisciplinarity: Stanford circa 1970” (Utrecht: Descartes Center colloquium, January 19, 2016).
- “The Tangible and the Esoteric: US Physics in the 1970s” (South Bend, IN: University of Notre Dame Cushing Prize Lecture, April 3, 2014).
- “Bridging Disciplines in Times of Crisis: US Physics in the Long 1970s” (Richardson, TX: UT Dallas School of Arts and Humanities, March 5, 2014).
- “The Market and the Garden: Civilianization and Commercialization of Research in the Long 1970s” (Seoul: Seoul National University, History and Philosophy of Science Program colloquium, March 1, 2013).
- “Replication and Evolution of Research Organizations: The Case of US Academic Microfabrication Facilities” (Daejeon: KAIST Graduate School of Science and Technology Policy colloquium, February 27, 2013).
- “Academic Entrepreneurship and the Crises of the 1970s” (Ithaca, NY: Cornell Science and Technology Studies department, February 14, 2013).
- “Interdisciplinarity and Vietnam-Era Protest at Stanford” (Santa Barbara: Center for Nanotechnology in Society seminar, October 12, 2011).
- “The Long Arm of Moore’s Law: The Microelectronics Industry and Nanotechnology” (Stockholm, Sweden: KTH Departments of Industrial Management and History of Science and Technology joint seminar, October 16, 2008).
- “Between Success and Scandal: Visionary Scientists and Molecular Electronics” (Göteborg, Sweden: Göteborg University Science and Technology Studies Section seminar, October 14, 2008).
- “Institutions as Stepping Stones: Rick Smalley and the Commercialization of Nanotubes” (Göteborg, Sweden: Chalmers Institute of Technology Nanoscience seminar, October 13, 2008).
- “The Long Arm of Moore’s Law” (Amherst, Mass.: Amherst College Law and Science Seminar, November 27, 2006).
- “Molecular Electronics in the *Longue Durée*” (Philadelphia: University of Pennsylvania Department of History and Sociology of Science, November 13, 2006).
- “Constituent Communities and the Creation of Nanotechnology” (Cambridge, Mass.: MIT Program in Science, Technology, and Society, February 27, 2006).
- “Commercializing Probe Microscopy” (Cambridge, Mass.: MIT Department of Anthropology, October 24, 2005).
- “Instrumental Communities and the Commercialization of Knowledge” (Tempe: Arizona State University Consortium on Science, Policy, and Outcomes, January 31, 2005).
- “On Becoming a Nanoscientist: Shifting Identities in the Probe Microscopy Community” (East Lansing, Mich.: Michigan State University Lyman Briggs School, February 18, 2004).

- “On Becoming a Nanoscientist: Shifting Identities in the Probe Microscopy Community” (Blacksburg, Va.: Virginia Tech Department of Science and Technology in Society, January 28, 2004).
- “From Replication to Routinization: Putting Probe Microscopy to Work” (Cambridge, Mass.: Harvard University Department of History of Science, November 25, 2003).
- “On Becoming a Nanoscientist: Shifting Identities in the Probe Microscopy Community” (San Diego: University of California at San Diego Department of Sociology, November 13, 2003).
- “Pilgrimage to Zurich: Sorting out the History of Scanning Probe Microscopes” (Toronto: York University STS Brownbag Research Seminar, February 13, 2001).

### **Invited workshop presentations/papers:**

- (with Yeh Chih-wei) “Semiconductor Physics and the Neoliberal Turn among Taiwanese, Dutch, and US Universities: The Red Queen’s Race or ‘Overtaking on a Bend’” (Taipei: 13<sup>th</sup> International Symposium on Taiwan Culture, May 30, 2024).
- “The Revolving-Door Set – or, the Polycrisis and the Philanthropocene” (Banff: Everything, Everywhere, All at Once conference, March 17, 2024).
- “When Replication Isn’t a Good Thing and Failure to Replicate Isn’t (Entirely) a Bad Thing” (Paris: Escaping the (nano)bubble workshop, November 9, 2023).
- Roundtable: (Mis)Remembering 1973: Crisis and Innovation (Washington, DC/online: Hopkins/CSPO/Lemelson Center symposium New Perspectives on Energy Innovation, October 19, 2023): <https://www.youtube.com/watch?v=0FHhKNJDUhI>.
- Roundtable: Immediacy and Deferral (Philadelphia/online: Science History Institute Cain Conference 2023 Science in Humanities, Humanities in Science: Embedded Connections, October 5, 2023).
- Conversation 4: Resources, energy and environment (online: Commission on the History of Chemistry and Molecular Sciences Conversations on the History of Chemistry, June 29, 2023).
- “Scientific Instruments and/as Oil Spillovers” (Munich: Bunge Prize Jubileum, June 2, 2023).
- (with Jelena Stankovic) “Managing Scarcity and Sustainability” (Eindhoven: NWO-NERA Energy Symposium, November 11, 2022).
- Webinar on “The President’s Scientists: The Evolving Role of Science Advice to the White House” (Houston: Baker Institute Science & Technology Policy Program/Science History Institute, November 9, 2022): <https://www.youtube.com/watch?v=3KUKrdwepYg&t=1s>.
- Response to the posed question, “Could we structure a big story around the materialities of data, computation and networks?” (Siegen, DE: Rethinking and Rebuilding: Grand Narratives in the History of Computing symposium, July 4, 2022).
- “Looking for Oil (and Finding It) in the History of Computing” (Siegen, DE: Digital Materials workshop, December 3-4, 2021).
- “Ethics in Nano Education, but First the Ethics of Nano Education” (Portland: IEEE NMDC meeting, October 16, 2018).
- “Vertical Dis-Integration, Roadmapping, and Bat Signals” (Mountain View: What’s at Stake in a Fourth Industrial Revolution workshop, June 15-17, 2018).
- “Exploring the History of the Future” (London: New Scientist Live, September 2017).
- “Science as Occupation and Avocation: Deflating Science without Disenchanting It” (Wuppertal: IZWT 10<sup>th</sup> Anniversary workshop, November 5, 2015).
- “The Pre-History of Responsible Innovation” (Washington, DC: Washington Center for Equitable Growth workshop, August 7, 2015).
- “Historical Approaches to User Innovation” (Philadelphia: MIT-Wharton NSF Conference, July 28, 2015).

“Academic Centers and/as Industrial Consortia” (Ghent: Academic Entrepreneurship in History: An International Survey of Current Research, March 12-13, 2015).

“Burnt by the Sun: Jack Kilby and the ‘70s Solar Boom” (San Antonio: American Physical Society March Meeting, March 4, 2015).

“Probe Microscopy: A Transatlantic and Transdisciplinary Instrumental Community” (Hamburg: Paul Bunge Prize lecture, Germany Chemical Society/Bunsen Society meeting, May 31, 2014).

Author presentation for forum on “Universities and Regional Growth: Insights from the University of California” (Davis, CA: Provost’s Forums on the Public University and the Social Good, April 22, 2014).

“Synesthesia in the Seventies: Research Reform and the Senses” (Maastricht, NL: Sonic Skills workshop, January 17, 2014).

“Dad’s in the Garage: Santa Barbara Physicists in the Long 1970s” (Forum for the History of Physics invited session, American Physical Society meeting, Baltimore, March 20, 2013).

“What Do Scientists and Engineers Do All Day? On the Structure of Normal Science” (Cambridge, MA: MIT-Harvard symposium on Thomas Kuhn’s *Structure of Scientific Revolutions*, 50 Years Later: Reflections on the History, Philosophy, and Sociology of Science, December 7, 2012).

“Replication and Evolution of Research Organizations: The Case of US Academic Microfabrication Facilities” (Berlin: International Conference on Intellectual and Institutional Innovation in Science, September 14, 2012).

“University in a Garage: Instrumentation and Innovation from UC Santa Barbara” (Berkeley, CA: workshop for edited volume on innovation in the UC system, March 30, 2012).

With Andrew J. Nelson, “‘A Towering Virtue of Necessity’: Computer Music at Vietnam-Era Stanford” (Starkville, Miss.: Osiris 28 Catfish Workshop, September 16-18, 2011).

“An Electro-Historical Focus with Real Interdisciplinary Appeal” (Princeton: Groovy Science – The Countercultures and Scientific Life, 1955-1975, February 4-5, 2011).

“The Political Economy of the Knowledge Economy: Interdisciplinarity at Vietnam-Era Stanford” (Oxford, UK: Scientific Collaboration, Interdisciplinary Pedagogies and the “Knowledge Economy” invited workshop, September 9, 2010).

“Fifty Years of Nanotechnology” (Columbia, SC: Feynman Anniversary Symposium, February 13, 2010).

“Conversions: Sound to Picture, Military to Civilian” (Maastricht: Sound Studies Handbook workshop, November 21, 2009).

“Some Early Historical Observations on the Commercialization of Nanotubes” (Washington, DC: US-France Young Engineering Scientists Symposium ’08, July 8, 2008).

With Michael Lynch (Lynch presenting), “From Dr. Goring to Nanotechnology: Test Objects as Reflexive Instruments” (Columbia, SC: Images of the Nanoscale: From Creation to Consumption workshop, October 27, 2007).

“Conferences, Institutions, and Nanotechnology” (Bielefeld: ZiF workshop on Institutional Fragmentation of Science, June 18, 2007).

With Hyungsub Choi (Mody and Choi presenting), “Molecular Electronics in the *Longue Durée*: The Microelectronics Origins of Nanotechnology” (Philadelphia: Wharton-CHF Symposium on the Social Studies of Nanotechnology, June 7, 2007).

With Hyungsub Choi (Mody presenting), “Molecular Electronics and the Microelectronics Origins of Nanotechnology” (Tempe, Ariz.: Nano and Giga Challenges in Electronics and Photonics Symposium, March 16, 2007).

- “Building a Probe Microscopy Community” (Chicago: Pittsburgh Conference, 18<sup>th</sup> Annual James Waters Symposium Recognizing Pioneers in the Development of Analytical Instrumentation, February 26, 2007).
- “Some Thoughts on Why History Matters in Understanding the Social Issues of Nanotechnology and Other Converging Technologies” (Madrid: Making the CTEKS workshop, Spanish National Research Council, February 6, 2007).
- “Commercializing Probe Microscopy” (Cambridge, Mass.: National Bureau of Economic Research Science & Engineering Workforce Project Workshop, October 20, 2005).
- “Probe Microscopists at Work and at Play: The Growth of American STM in the 1980s” (Cambridge, Mass.: MIT workshop on Training Scientists, Crafting Science: Putting Pedagogy on the Map for Science Studies, January 25, 2002).

#### **Invited graduate summer and winter school sessions:**

- “Science and Profit” (Zurich: Zurich History of Knowledge group Winter School 2024).
- “Scientific ‘Bubbles’ in Nanotechnology and Beyond” (Wuppertal: GRK2696 Summer School 2023, September 25, 2024).
- “Cell, Brain, Home, World: Systems Thinking and Future Living” (Ravenstein, NL: WTMC school on Emerging Innovations as Systems, November 3, 2021).
- Organized winter school on “Internationality” (Maastricht: Limes project, winter 2021).
- Organized winter school on “Interdisciplinarity” (Maastricht: Limes project, winter 2020).

#### **Other presentations and conference activities:**

- “A Seat at the High-Tech Table but Not at the UN: Semiconductor Manufacturing and Ambiguous Sovereignty” (Arlington, VA: Society for the History of American Foreign Relations annual meeting, June 28, 2025).
- (with Simone Schleper) “Sinner among Saints, Saint among Sinners: Maurice Strong and the Politics of Extractivism, Speculation, and Environmentalism in Colorado” (Denver: American Society for Environmental History annual meeting, April 6, 2024).
- Chair, “Managing Scarcity and Sustainability: Oil, Nuclear, and Automobile Firms and the Economic and Societal Challenges of the 1970s-1980s” (Oslo: European Business History Association annual meeting, August 24, 2023).
- (with Simone Schleper) “Behind Closed Doors? Environmental Governance in Heterogeneous Networks” (Boston: American Society for Environmental History meeting, March 25, 2023).
- “Go-Betweens and Friendly Critics: STS Scholars Writing for and with Scientific Publics” (Paris: Science at the Crossroads workshop, November 3, 2022).
- Chair, “Geoscience Spillover: The Applied Geosciences at the Intersection of the Oil Industry and Alternative Energy” (European Society for the History of Science meeting, September 2, 2022).
- Chair, “From Akademgorodok to Science Park: The Political Economy of Research Spaces (1945-2000)” (European Society for the History of Science meeting, September 1, 2022).
- “Complementary Scarcities, Complementary Transitions: Oil, Food, and International Development in the Long 1970s” (Aarhus: Tensions of Europe, June 29, 2022).
- With Danielle Shanley, “Appropriate Technology and Technology Assessment: Mirror-Image Twins?” (Society for the History of Technology annual meeting, November 19, 2021).
- Chair, Commission on the History of Chemistry and Molecular Sciences session 3/3 (International Congress of the History of Science and Technology, July 29, 2021).
- With Joseph Martin, “Tools in the History of Materials Research” (International Congress of the History of Science and Technology, July 26, 2021).



“Data is the New Oil is the Old Oil: The History of Oil and ICTs” (Tensions of Europe Digital Workshop Festival, June 30, 2021).

Panel organizer, “*Engineering Studies* Journal: Who Are We, What Do We Do, Who Are We Missing” (INES workshop, June 29, 2021).

“Complementary Scarcities: Oil, Food, and Life Itself” (Leibniz Center for Contemporary History Potsdam: Energy Transitions and International Cooperation in the 20<sup>th</sup> Century, June 10, 2021).

Commentator, “The Lab as the Site of Historical Excavation” [public conversation about Pankaj Sekhsaria’s book *Instrumental Lives*] (online/Bangalore: National Centre for Biological Sciences, May 15, 2020) [<https://www.youtube.com/watch?v=Px9eEsAf59w>].

Commentator, workshop on “Animal Materialities: Compositions and Practices in the History of Science” (Berlin: Max Planck Institute for the History of Science, December 5-6, 2019).

Commentator, roundtable on “Writing the History of Twentieth-Century Chemistry” (Maastricht: International Conference on the History of Chemistry, August 1, 2019).

Paper presenter and panel co-organizer (with Joe Martin), “Infrastructural Tools: Safety, Standards, Fume Hoods, Vacuum Chambers” (Maastricht: International Conference on the History of Chemistry, August 1, 2019).

Opening comments (Maastricht: Research Meets Curator conference, March 22, 2019).

Panelist, “Why Teach the History of Knowledge?” (Amsterdam: Stevin Center lustrum, March 20, 2019).

Panelist and moderator, panel on “Collaborative Histories: An STS Community Considers the Nano Social Science of the Past Ten Years” (Maastricht: S.NET meeting, June 26, 2018).

Commentator and co-organizer (with Kate de Luna), session on “Time out of Joint” (Philadelphia, PA: Society for the History of Technology Annual Meeting, October 28, 2017).

“Ann Asked, We Should Try to Answer: What If We Wrote the History of Science from the Perspective of Applied Science” (Philadelphia, PA: Society for the History of Technology Annual Meeting, October 27, 2017).

“‘A Competence Which Should Be Used:’ NASA and Urban Systems in the 1970s” (Huntsville: NASA in the ‘Long’ Civil Rights Movement Conference, March 17, 2017).

“Commercialization as Experimentation: Entangled Institutional Innovations among Santa Barbara Physicists in the 1970s” (Berlin: Max Planck Institute workshop, From Knowledge to Profit? Scientific Institutions and the Commercialization of Science, October 12, 2016).

Commentator, session on “Organizations, Institutions, and Computing” (Dearborn: SHOT/SIGCIS workshop, November 9, 2014).

Chair, session on “Engineering and Abstraction in the Twentieth-Century: Idealism, Prediction, and the Innovative Self” [panel organized by Heidi Voskuhl] (Portland, ME: Society for the History of Technology Annual Meeting, October 11-12, 2013).

Commentator and chair, session on “Circulating Expertise” (Portland, ME: Society for the History of Technology Annual Meeting, October 11-12, 2013).

Moderator, session on “Social Construction of Technology” [panel organized by Mike Lounsbury] (New York: American Sociological Association annual meeting, August 10, 2013).

“An Historical Alternatives Approach to the Materials of Microelectronics” (Manchester, UK: International Congress of History of Science, Technology, and Medicine, July 25, 2013).

“The Interdisciplinary Imaginary: Computer Music at Vietnam-Era Stanford” [also organized panel] (Copenhagen: annual meeting of the Society for the History of Technology, October 6, 2012).

Moderator, panel on “Science at the Margins: American Women in Scientific Careers in the Twentieth Century” [panel organized by Jessica Martucci], (Ft. Worth: Southern Association for Women Historians annual meeting, June 9, 2012).

Commentator, panel on “Emerging Technology: The Coevolution of Performances, Regulations, and Markets” [panel organized by Ann Johnson] (Philadelphia: Business History Conference, March 31, 2012).

“What Happens When an Emerging Technology Never Quite Emerges? Josephson Computing in the ‘70s and ‘80s” [also organized panel] (Tempe: annual meeting of the Society for the Study of Nanoscience and Emerging Technologies, November 9, 2011).

“The Josephson Junction at IBM, 1968-1983” (Cleveland: annual meeting of the Society for the History of Technology, November 4, 2011).

“Choosing Paths for Research at Vietnam-Era Stanford” (Cleveland: annual meeting of the Society for Social Studies of Science, November 3, 2011).

Panel participant, “Leo Marx Meets Some New Readers” (Tacoma: annual meeting of the Society for the History of Technology, October 2, 2010).

Panel participant, “The Feynman Legacy” (Darmstadt, Germany: Society for the Study of Nanoscience and Emerging Technologies meeting, September 30, 2010).

“From Microscience to Nanotechnology, 1970-2000” (Society for Social Studies of Science annual meeting, August 26, 2010).

“Fifty Years of Nanotechnology” (Palo Alto, CA: President’s Council of Advisers on Science and Technology NNI Review, panel on environmental, ethical, societal, and legal concerns, February 18, 2010).

“Context in the Classroom: Co-Teaching Our Way to Societal Dimensions of Nano” (Philadelphia: American Anthropological Association annual meeting, December 4, 2009).

“Conversions: Sound to Picture, Military to Civilian” (Pittsburgh: annual meeting of the Society for the History of Technology, October 16, 2009).

With Sonali Shah (Shah presenting), “Innovation, Social Structure and the Creation of New Industries: User Communities as Paths from Innovation to Industry” (Seattle: West Coast Research Symposium, September 11, 2009).

“Institutions as Stepping Stones: Rick Smalley and the Commercialization of Nanotubes” (Seattle: Society for the Study of Nanoscience and Emerging Technologies meeting, September 9, 2009).

“Crazy or Brilliant or ... ? : Molecular Electronics and the Interpretive Flexibility of Personality” (Washington, DC: Society for the History of Technology annual meeting, October 19, 2007).

“Conferences, Community, and Nanotechnology: From Birth to Rebirth” (Vancouver: Society for Social Studies of Science annual meeting, November 4, 2006).

With Michael Lynch (Mody presenting), “Test Objects and the Materials of Community” (Minneapolis: Society for the History of Technology annual meeting, November 4, 2005).

“Nanotechnology and the Modern University” (Pasadena: Society for Social Studies of Science annual meeting, October 21, 2005).

“Instrumental Communities and the Commercialization of Knowledge” (Philadelphia: American Sociological Association annual meeting, August 15, 2005).

“The History of the AFM” (Ithaca, N.Y.: Panel Discussion on Social and Ethical Issues in Nanoscience and Engineering: What Are They?, National Nanotechnology Infrastructure Network/Cornell Nanofabrication Facility, April 8, 2004).

“Intervening Technology, Representing Technique: Probe Microscopy and the Art of the Nanoworld” (Columbia, S.C.: Conference on Imaging and Imagining the Nanoscale, March 4, 2004).

- “Studying from the Middle: Following Mediators into the Laboratory” (Berkeley, Cal.: Workshop on Studying Up: The Problems and Prospects of Multi-Sited Ethnography, February 3, 2004).
- “Builders, Runners, Users: Adaptations to Commercialization in the Probe Microscopy Community” (Atlanta: Society for Social Studies of Science meeting, October 16, 2003).
- “Probe Microscopists at Work and Play: The Growth of American STM and AFM in the 1980s” (Atlanta: American Sociological Association annual meeting, August 16, 2003).
- “From the Topografiner to the STM to the AFM: What Probe Microscopy Can Tell Us about Nanoscience Instrumentation” (Columbia, S.C.: Discovering the Nanoscale conference, March 21, 2003).
- “Pedagogy and Probe Microscopy: Building Instruments and Instrumentalists” (Milwaukee: Society for Social Studies of Science conference, November 8, 2002).
- “The Microscopist’s Apprentice: Managing Diversity in Scanning Probe Microscopy” (Cambridge, Mass.: Society for Social Studies of Science conference, November 3, 2001).
- “Instruments of/and Noise: Hearing and Laboratory Practice” (Vienna, Austria: Society for Social Studies of Science conference, September 28, 2000).
- “Tending and Attending: Using, Reading, and Listening to Laboratory Artifacts” (Ithaca, N.Y.: Cornell S&TS Workshop on The Significance of Noise, April 8, 2000).
- “Cleanliness is next to . . . ? Purity and Epistemology among Materials Scientists” (San Diego: Society for Social Studies of Science conference, October 30, 1999).
- “Jakobson’s Deep Impact: A Jakobsonian Reading of the Alvarez Extinction Paper” (Cambridge, Mass.: Conference on The Problem of Evidence, Center for Literary and Cultural Studies, Harvard University, May 14, 1999).

### **Local presentations:**

- Panel discussion (Maastricht: Maastricht Young Academy x Lumière movie night, February 17, 2025), <https://www.nikhef.nl/en/events/maastricht-young-academy-x-lumiere-movie-night-panel-discussion-with-nikhef-researchers/>
- With Dieudonné van de Willigen, moderated by Judith Kamalski and Mark Kawakami, “Faces of Open Science” (Maastricht: National Open Science Festival, October 22, 2024).
- “Historical Perspectives” (Maastricht: Dialogue session ‘Transition to a fossil-free society,’ December 11, 2023).
- “Fueled by Oil: Digital Innovation and the Fossil Fuel Industry” (Maastricht: Bachelor Digital Society kick-off workshop, November 14, 2019).
- “Entangled Innovations: Santa Barbara Physicists in the Long 1970s” (Maastricht: MUSTS research colloquium, September 23, 2015).
- “Mel Chin and the Sciences of the ‘70s” (Houston: Contemporary Art Museum Houston, March 19, 2015).
- “Burnt by the Sun: Jack Kilby and the ‘70s Solar Boom” (Houston: Rice History department lunchtime talk, November 24, 2014).
- “Jack Kilby’s Failed Revolution” (Houston: CENHS Cultures of Energy spring symposium, April 24, 2014).
- “Whose Vision, Who’s Sharing” (Houston: TEDx Rice, April 12, 2014).
- “Physics, Counterculture, and Entrepreneurship: Santa Barbara in the Vietnam Era” (Huntsville, TX: Sam Houston State physics department colloquium, October 21, 2013).
- “Machines of Loving Grace: Cybernetics Meets the Counterculture” (Houston: Rice University STAT/MATH/CAAM 498 seminar on Norbert Wiener, April 9, 2013).
- “Dad’s in the Garage: Santa Barbara Physicists in the Long 1970s” (Houston: Rice University CHEM 533 Nanoscience and Nanotechnology, March 4, 2013).

“Safety, Disaster, and Innovation on the High Seas before and after the Titanic” (Houston: Rice University, Glasscock School of Continuing Studies, Titanic course, April 19, 2012).

“Safety, Disaster, and Innovation on the High Seas before and after the Titanic” (Houston: Houston Maritime Museum, April 17, 2012).

“Safety, Disaster, and Innovation on the High Seas before and after the Titanic” (Houston: Houston Museum of Natural Sciences, April 12, 2012).

“Eight Lessons from the Career of Rick Smalley” (Houston: Scientia, November 15, 2011).

With Kevin Kelly, “Technological Disasters: Learning from the Past to Prepare for Tomorrow” (Houston: IEEE Galveston Bay Section monthly meeting, October 27, 2011).

With Kevin Kelly, “Technological Disasters” (Houston: Rice Alumni College, March 19, 2011).

“Interdisciplinarity and Vietnam-Era Protest at Stanford” (Houston: Rice Center for Biological and Environmental Nanotechnology-Student Leadership Council semimonthly lunch talk series, October 28, 2010).

“Microscience/technology and Vietnam-Era Protest at Stanford” (Austin: Microelectronics Research Center talk, October 12, 2009).

With Sonali Shah (Shah presenting), “Innovation, Social Structure and the Creation of New Industries: User Communities as Paths from Innovation to Industry” (Houston: Instruments in Manufacturing workshop, June 18, 2009).

“Institutions as Stepping Stones: Rick Smalley and the Commercialization of Nanotubes” (Houston: Instruments in Manufacturing workshop, June 18, 2009).

“Building an Engineering Profession” (Houston: Rice University, Glasscock School of Continuing Studies, Rice engineering course, February 19, 2011).

“On the Origin of Theses: Locating Darwin in Victorian Science” (Houston: Rice University, Glasscock School of Continuing Studies, Darwin course, February 17, 2009).

“Charles Darwin” (Houston: Museum of Natural Sciences, Darwin course, February 10, 2009).

“Molecular Electronics in the *Longue Durée*: Microelectronics, Futurism, and Nanotechnology” (Houston: Rice University Department of History, February 12, 2007).

“Conferences and the Development of Nanotechnology: Two Case Studies” (Philadelphia: Chemical Heritage Foundation Brown Bag Lunch, May 8, 2007).

“Universities, Corporations, and Instruments: Commercializing Probe Microscopy” (Philadelphia: Chemical Heritage Foundation Brown Bag Lunch, February 23, 2005).

“What Does an Existence Proof Prove?: Surface Science and the Topografiner” (Ithaca, N.Y.: Cornell Science Studies Reading Group, October 28, 2002).

“Scanned Probes and Surface Science: Crafting Communities and Instruments in the ‘80s and ‘90s” (Ithaca, N.Y.: Cornell Science Studies Reading Group, February 4, 2002).

“Failed (Auto)Revolution: Ideology, Invention, and the Autogiro” (Ithaca, N.Y.: Cornell Science Studies Reading Group, March 28, 1998).