

Matthew Wisnioski  
Science, Technology, and Society  
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## APPOINTMENTS

Associate Professor, Department of Science, Technology, and Society, Virginia Tech, 2013-Present  
Senior Fellow, Institute for Creativity, Arts, and Technology, 2013 - 2021  
Affiliated Faculty, Department of History  
Affiliated Faculty, Department of Engineering Education  
Co-founder, Human-Centered Design Interdisciplinary Graduate Education Program  
Assistant Professor, Department of Science and Technology in Society, Virginia Tech, 2007-2013  
Andrew W. Mellon Postdoctoral Fellow, Modeling Interdisciplinary Inquiry, Washington University in  
St. Louis, 2005-2007

## EDUCATION

Ph.D. History, Princeton University, 2005  
M.A. History, Princeton University, 2002  
B.S. Materials Science & Engineering, Johns Hopkins University, 2000

## PUBLICATIONS

### Books

Matthew Wisnioski, Eric Hintz, and Marie Stettler Kleine, eds., *Does America Need More Innovators?*  
(Cambridge, MA: MIT Press, 2019).  
*Engineers for Change: Competing Visions of Technology in 1960s America* (Cambridge, MA: MIT Press,  
2012). Reprint edition 2016.

### *Under contract:*

Matthew Wisnioski, *Every American an Innovator: How Innovation Became a Way of Life* [under contract  
with MIT Press; anticipated publication fall 2023]

### *In progress:*

Matthew Wisnioski and Michael Meindl, *Take Chances, Make Mistakes, Get Messy: The Magic School Bus  
and the Re-Animation of Science in the Multimedia Age.*

### Journal Articles

Kari Zacharias and Matthew Wisnioski, "Land-Grant Hybrids: From Art and Technology to SEAD,"  
*Leonardo* 52, no. 3 (2019): 275-284.  
"The Birth of *Innovation*," *IEEE Spectrum* 52, no. 2 (2015): 40-45, 60-61.

- “Suppose the World Were Already Lost’: Worst Case Design and the Engineering Imagination at Harvey Mudd College.” *Engineering Studies* 6, no. 2 (2014): 65-86.
- Matthew Wisnioski and Kari Zacharias, “Sandbox Infrastructure: Field Notes from the Arts Research Boom,” *ARPA Journal* 1, no. 1 (2014). <http://arpajournal.gsapp.org/we-are-test-subjects-2/>
- “Why MIT Institutionalized the Avant-Garde: Negotiating Aesthetic Virtue in the Postwar Defense Institute,” *Configurations* 21, no. 1 (2013): 85-116.
- “Liberal Education has Failed’: Reading Like an Engineer in 1960s America,” *Technology & Culture* 50, no. 4 (October 2009): 753-782.
- “Inside ‘The System’: Engineers, Scientists, and the Boundaries of Social Protest in the Long 1960s,” *History and Technology* 19, no. 4 (2003): 313-333.

*Under review:*

- Patrick, A., Matthew Wisnioski, McNair, L., Ozkan, D., Reeping, D., Martin, T., Lester, L., Baum, L., and B. Knapp. “In It for the Long Haul: Negotiating ‘Culture Change’ in Engineering Education Reform.”

*In progress:*

- Matthew Wisnioski and Michael Meindl, “*The Magic School Bus* and the Reanimation of Science Education”

Peer-Reviewed Book Chapters

- “The Innovator Imperative,” in *Does America Need More Innovators?* Matthew Wisnioski, Eric Hintz, and Marie Stettler Kleine, eds. Cambridge, MA: MIT Press, 2019).
- “How the Industrial Scientist Got His Groove: Entrepreneurial Journalism and the Fashioning of Technoscientific Innovators,” in *Groovy Science: Knowledge, Innovation, and American Counterculture*, David Kaiser and W. Patrick McCray, eds. (Chicago: University of Chicago Press, 2016): 337-365.
- “Engineers Make Their Own Context: Vision-Construction in the Profession,” in *Issues in Engineering Studies: Engineering Education and Practice in Context*, S.H. Christensen, C. Didier, A. Jamison, M. Meganck, C. Mitcham, and B. Newberry, eds. (New York: Springer, 2015), 347-359.
- “Centerbeam: Art of the Environment,” in *A Second Modernism: MIT, Architecture and the 'Techno-Social' Moment*, Arindam Dutta, ed. (Cambridge, MA: MIT Press, 2013), 189-225.
- Otto Piene and Matthew Wisnioski “Art/Science/Technology,” in *A Second Modernism: MIT, Architecture and the 'Techno-Social' Moment*, Arindam Dutta, ed. (Cambridge, MA: MIT Press, 2013), 770-798.
- “How Engineers Contextualize Themselves,” in *Engineers in Context*, Steen Hyldgård Christensen, Bernard Delahousse, and Martin Meganck, eds. (Aarhus, Denmark: Academica, 2009), 403-415.

Essay Reviews

- “Design Enigmas: SSK in the Service of Practice,” *Studies in the History and Philosophy of Science, Part A* 44, no. 4 (2013): 613-617. Review of David Bloor’s *Enigma of the Aerofoil: Rival Theories in Aerodynamics, 1909-1930*.

“Let’s Be Fysiksists Again,” *Science* 332, no. 6037 (June 24, 2011): 1504-1505. Review of David Kaiser, *How the Hippies Saved Physics*.

### Reviews

“Cyrus Mody, *The Squares: US Physical and Engineering Sciences in the Long 1970s*,” *ISIS* [forthcoming 2023].

“Pedro Garcia Duarte and Yann Giraud, eds., *Economics and Engineering: Institutions, Practices, and Cultures*,” *Technology and Culture* 63, no. 2 (April 2022): 523-525.

“Eric Schatzberg, *Technology: Critical History of a Concept*,” *American Historical Review* 126, no. 1 (March 2021): 266–267

“David Cateforis, Steven Duval, and Shepherd Steiner, *Hybrid Practices: Art in Collaboration with Science and Technology in the Long 1960s*,” *ISIS* 111, no. 4 (December 2020): 907-908.

“Diane E. Bailey and Paul M. Leonardi, *Technology Choices: Why Occupations Differ in Their Embrace of New Technology*,” *Technology and Culture* 58, no. 2 (April 2017): 609-611.

“Henry Petroski, *To Forgive Design: Understanding Failure*,” *ISIS* 104, no. 4 (December 2013): 829-830.

“David Kaiser, ed., *Becoming MIT: Moments of Decision*,” *Technology and Culture* 52, no. 4 (October 2011): 52-53.

“Peggy Aldrich Kidwell, et al., *Tools of American Mathematics Teaching, 1800-2000*,” *Technology and Culture* 50, no. 2 (April 2009): 500-502.

### Editorials and Introductions

“What’s the Use?: History and Engineering Education Research,” *Journal of Engineering Education* 104, no. 3 (2015): 244-251.

Matthew Wisnioski and William Grimson, “Series Introduction: Competing Contexts in Engineering,” in *Issues in Engineering Studies: Engineering Education and Practice in Context*, S.H. Christensen, C. Didier, A. Jamison, M. Meganck, C. Mitcham, and B. Newberry, eds. (New York: Springer, 2015), 341-346.

### Public Scholarship

Matthew Wisnioski and Lee Vinsel, “The Campus Innovation Myth.” *Chronicle of Higher Education* (June 21, 2020), B6-B9.

“Inside the Online World Not Indexed by Search Engines,” (Review of Jamie Bartlett, *The Dark Net*) *Washington Post*. June 26, 2015.

“How Digital Technology is Destroying Your Mind,” (Review of Susan Greenfield, *Mind Change*) *Washington Post*. February 13, 2015.

“‘The Innovators,’ on the Creation of the Digital Revolution, by Walter Isaacson,” *Washington Post*, October 3, 2014. Review of Walter Isaacson, *The Innovators* (New York: Simon & Schuster, 2014).

“‘Change or Die!’: A History of the Innovator’s Aphorism,” *The Atlantic* online (December 12, 2012).

## **AWARDS AND FELLOWSHIPS**

### Research

Visiting Professor, École des hautes études en sciences sociales (EHESS), Paris, France, June 2022.

National Endowment for the Humanities Senior Fellowship, Consortium for History of Science, Technology, and Medicine (CHSTM), spring 2022.

Visiting Professor, École normale supérieure Paris-Saclay, December 2017.

Visiting Professor, École normale supérieure de Cachan, September-October 2016.

Visiting Scholar, Program in Science, Technology, and Society, Massachusetts Institute of Technology, summer 2015.

Smithsonian Lemelson Center for the Study of Invention and Innovation, Fellow, 2014-2015.

Excellence in Research and Creative Scholarship Award, College of Liberal Arts and Human Sciences, Virginia Tech, 2014.

Fellow, Institute for Creativity, Arts, and Technology, 2013-2014.

Shelby Cullom Davis Center for Historical Studies, Davis Prize Fellowship, 2003-2005.

Best Undergraduate Poster. "Pulsed Laser Deposition of Ni<sub>2</sub>Si on SiC for High Temperature Semiconducting Devices." Materials Research Society Annual Meeting, San Francisco, 2000.

### Teaching

Diggs Teaching Scholar for Inclusive and Critical Pedagogy, Virginia Tech, 2020.

Outstanding Mentoring Award, Graduate School, Virginia Tech, 2018.

Excellence in Advising Award, College of Liberal Arts and Human Sciences, Virginia Tech, 2018.

XCaliber Award for Exceptional, High-caliber Contributions to Technology-enriched Teaching and Learning, Office of the Provost, Virginia Tech, 2014.

## **GRANTS**

### External Grants

Luke Lester (PI), Benjamin Knapp, Tom Martin, Lisa McNair, and Matthew Wisnioski, "IUSE/PFE: RED. Radically Expanding Pathways in the Professional Development of Engineers," National Science Foundation. Award 1623067. 2016-2022. \$2,000,000.

Matthew Wisnioski (PI), "Scholar's Award: Developing Innovators and Expertise for Fostering Innovation," National Science Foundation. Award 1354121. 2014-2017. \$187,425.

Christopher Williams (PI), Lisa McNair, Marie Paretti, and Matthew Wisnioski. "Assessment of Product Archaeology as a Platform for Contextualizing Engineering Design," National Science Foundation. Award 1225856. 2012-2014. \$64,933.00.

Matthew Wisnioski (PI) and Jongmin Lee, "Doctoral Dissertation Research: Regulatory Engineering in the EPA's Office of Research and Development," National Science Foundation. Award 1059029. 2011. \$9,905.

Internal Grants

Lisa McNair (PI), Liesl Baum, Marc Junkunc, Brook Kennedy, Matt Wisnioski. Pathways Minor Delivery Grant. Virginia Tech Office of the Provost. \$70,000. 2016-2018.

Troy Abel (PI), Matthew Wisnioski, Michael A. Evans, R. Benjamin Knapp, et al. "Human-Centered Design," Virginia Tech Interdisciplinary Graduate Education Program. \$400,000. 2013-2017.

VTRC-A Executive Briefing Center Meeting Grant. \$10,000. 2014-2015.

SEAD (Science, Engineering, Art, and Design) Mini Grant. \$3,000. 2014-2015.

"Humanities Symposium: Understanding Innovation Expertise," Virginia Tech CLAHS and HCD-IGEP. \$11,000. 2013.

**PRESENTATIONS**Keynote Lectures

"Aesthetic Virtue in the Defense Institute," Systems, Process, Art and the Social Symposium, Massachusetts Institute of Technology, February 4, 2011 [with: Benjamin Aranda, Aranda/Lasch; Michelle Kuo, *Artforum*; João Ribas, List Visual Arts Center; and Matthew Ritchie, artist].

"Technological Change as a Concept in Post-WWII Social Sciences," Conference on the History of Recent Economics, Ecole normale supérieure de Cachan, France, June 2-3, 2010. [one of two keynote speakers with Marion Fourcade]

International Lectures and Workshops (select)

"Four Questions from *When Innovation was New*," Framing Innovation in a Networked World, Erasmus University Rotterdam, September 2021.

"Power Tools: Empowerment, 'Innovation,' and the Corporate Use of Feminist Values," Techniques of the Corporation, University of Toronto, May 4-6, 2017.

Matthew Wisnioski, Eric Hintz & Marie Stettler Kleine, "Can Innovators Be Made? A Critical Participatory Model for Reflective Innovation," Participating in Innovation, Innovating in Participation. Mines ParisTech, Paris, December 3-4, 2015.

"Everyone an Innovator," Center for Technology in Society, Technische Universität München, Munich, Germany, December 1, 2015.

"Why MIT Institutionalized the Avant-Garde," György Kepes - Form and Information, University of Basel/ETH Zurich, Basel, Switzerland, October 25-26, 2012.

"Jihadists, Nazis, and the Ways Engineers Contextualize Themselves," Dublin Institute of Technology Symposium on Engineering in Context, Engineers Ireland, July 2-3, 2009.

"Strange Happenings: Engineers, Artists, and the Dream of 'Human' Technology," Royal Institute of Technology, Stockholm, Sweden, October 11, 2004.

Domestic Lectures (select)

Matthew Wisnioski and Eric S. Hintz. "Does America Need More Innovators?" National Museum of American History. Washington, DC. June 2019.

- “Incubating Entrepreneurs: The NSF and the Making of Technoscientific Innovators in the 1970s.” History of Science and Technology Colloquium. Johns Hopkins University, March 2018.
- “Every American an Innovator: How Innovation Became a Way of Life.” Science Studies Program. University of California, San Diego, CA, November 14, 2016.
- “From Grey to K.” Lifelong Kindergarten Group, MIT Media Lab, Cambridge, MA, July 7, 2015.
- “What Makes Innovators?: ‘Innovation Expertise’ and the Technoscientific Self.” Department of the History and Sociology of Science, University of Pennsylvania, April 13, 2015.
- “Technology Out-of-Control as an Innovation Problem,” STS Center, University of California, Berkeley, May 21, 2010.
- “Engineers as Culture Warriors? Competing Visions of Technology in 1960s America,” STS Seminar Series, Stanford University, November 9, 2009.

#### Workshops and Symposia (select)

- Historians of Technology & Policymakers Workshop, Arizona State University Consortium for Science, Policy and Outcomes, January 2023.
- STS as Critical Pedagogy Workshop, James Madison University, June-July 2021.
- Science History Institute Workshop on Community History and Biotech, Philadelphia, Nov. 21-22, 2019. [invited]
- MIT Art Technology and Culture Salon “CAVS and ACT in the big world (of cultural, political, scientific and other influences)” Massachusetts Institute of Technology, February 17, 2017. [invited]
- “Suppose the World Were Already Lost: Student Designs for Nuclear Holocaust,” for Imagining the Worst Workshop, Cornell University, April 18-21, 2013.
- “Technics-out-of-Control as a Theme in Engineering Thought,” Hixon Forum for Responsible Science and Engineering: Engineers, Exact Scientists (Technocrats) and Political Processes: Global Perspectives, Harvey Mudd College, March 1-3, 2012.
- “Design and Liminality” for “Architectural Histories of Organization,” Radcliffe Exploratory Seminar, Radcliffe Institute for Advanced Study, Harvard University, January 29-30, 2010.
- Technics-out-of-Control as a Theme in Engineering Thought,” *Re:calling ‘Science as a Vocation’* Science in Human Culture, Northwestern University, May 29-30, 2008.

#### Workshop Organized

- “Can Innovators Be Made?: A Dialogue on the Past, Present, and Future of Innovation Expertise,” Virginia Tech/National Museum of American History, March 20-21, 2015, with Eric S. Hintz and Marie Stettler Kleine.

#### Panels Organized

- “Animating Technoscience: Imagination, Production, and Representation,” Joint session of the History of Science Society (HSS) and the Society for the History of Technology (SHOT), November 2021. Co-organized with Michael Meindl.
- “Is STS an Innovation Discipline? Bridging Critique and Practice,” 4S Annual Meeting, New Orleans, LA. September 2019. Co-organized with Ellan Spero.

“Coordinating the Dance between Research, Infrastructures, and Arts Practices,” National Conference of the Alliance for the Arts in Research Universities, Ames, IA, October 9, 2014.

“Late 20<sup>th</sup> Century Scientific Publics,” HSS, Cleveland, OH, November 6, 2011.

“Intellectual Cultures and the Meaning of Technology,” SHOT, Minneapolis, MN, November 4, 2005.

“Engineers and the Politics of Responsibility,” SHOT, Atlanta, GA, October 18, 2003.

#### Invited Commentaries

“The Cost of Engineering to Society,” SHOT, St. Louis, MO, October 2018.

“Non-Participation, Refusal, Resistance, and Inaction,” SHOT, Philadelphia, PA, October 28, 2017.

Ideologies and Imaginaries of Innovation Workshop, Technische Universität München, Munich, Germany, May 19, 2016.

“Engineers as Artists, Artists as Inventors,” SHOT, Albuquerque, NM, October 9, 2015.

“Who Were the Innovators? Consumers, Gender, and Reform in 20th Century America,” SHOT, Dearborn, MI, October 10, 2014.

“Lies, Damn Lies, and Their Characteristics,” HSS, Vancouver, BC, November 2006.

#### Conference Papers (select)

Breaking the Sandbox of Innovation Roundtable, Society for Applied Anthropology, Salt Lake City, UT, March 2022.

Michael Meindl and Matthew Wisnioski, “Take Chances! Make Mistakes! Get Messy!”: *The Magic School Bus* and the Reanimation of Science Education in the 1990s,” HSS/SHOT, November 2021.

“Engaged Program or Prosperity Gospel: Innovation Studies and the Origins of STS,” 4S, New Orleans, LA, September 2019.

Matthew Wisnioski, Annie Patrick, and Lisa McNair, “You say you want a revolution: From engineering activism to expert changemaking,” Society for the Study of Social Problems, New York, NY, August 2019.

“Lifelong Kindergarten: Play and the Making of Innovators.” SHOT, St. Louis, MO, October 2018.

“Scientists in Philanthropy’s Image: Private Foundations and the Fostering of Technoscientific Innovators.” 4S, Sydney, Australia, September 1, 2018.

“Creative Class Consciousness: The Origins of a Collective Identity.” 4S, Boston, MA September 2017.

“Big Bird and the Artificial Kidney: Innovation Prizes and Science Policy in the Nixon Era,” HSS, Atlanta, GA, November 2016.

Kari Zacharias and Matthew Wisnioski, “Land Grant Hybrids: Transdisciplinarity, Identity, and Mission-Based Arts Research,” Hybrid Practices in the Arts, Science, and Technology from the 1960s to Today, Spencer Museum of Art, Lawrence, KS, March 2015.

“Be an Innovation Millionaire! Innovation Expertise as Self-Help in the Post-Vietnam Era,” SHOT, Portland, ME, October 2013.

“Marketing Technoscientific Selves,” HSS, Cleveland, OH, November 2011.

“Do Books Cause Revolutions?: Reading Like an Engineer in 1960s America,” University of Wisconsin Madison, Conference on the Culture of Print in STEM, September 2008.

“Playing Games: Chess, Automata, and Artificial Intelligence,” HSS, Denver, CO, November 2001.

## UNIVERSITY LEADERSHIP

### Undergraduate STS Program

Inaugural director of Undergraduate Studies, 2018-2021. Helped orient a graduate-focused program toward undergraduate students and curriculum. Accomplishments included a new STS minor, developing the new course *Introduction to Technology and Race*, and enhancing undergraduate enrollment.

### Graduate STS Program

Director of Graduate Studies, Fall 2023-. Past accomplishments include collaborating with Sonja Schmid to create our department's first *Introduction to STS* graduate course, which joins students in our Blacksburg and Northern Virginia programs; surveys STS theories and methods; and reflects on the past, present, and future of STS.

### Innovation Pathways Minor

With colleagues in the Institute for Creativity, Arts, and Technology (ICAT); Engineering Education; and Business I co-created a university-wide minor. Its introductory course is the STS class, *Innovation in Context*, which uses design methods to critically interrogate the meanings and practices of innovation.

### Human-Centered Design Interdisciplinary Graduate Education Program

With colleagues in ICAT, Computer Science, Electrical and Computer Engineering, Engineering Education, Industrial Design, the School of Performing Arts, and the School of Visual Arts, I co-founded a graduate certificate program and individualized PhD degree and served as the program's first associate director, in 2013-2014.

### Revolutionizing Engineering Departments (RED)

From 2016-2022, I was a critical participant in an NSF-funded project to reform the culture and curriculum of Virginia Tech's Bradley Department of Electrical and Computer Engineering to enhance the range of students the department attracts and broaden the careers its graduates pursue.

### Institute for Creativity, Arts, and Technology (ICAT)

As a Senior Fellow for a university-wide transdisciplinary center, I collaborated with a group of ten other faculty from across the university to: advise ICAT on strategy, evaluate seed grant proposals annually, and, in 2017, helped broker and plan the first ACCelerate Creativity and Innovation Festival at the Smithsonian National Museum of American History.

### University Strategic Planning

In 2015, I was co-chair of the "Preparing Students for their Life and Work" theme of Virginia Tech's Beyond Boundaries thirty-year strategic visioning initiative. As one of two non-administrative faculty on the university's leadership team (and its only humanist), I convened students, faculty, staff, administrators, and alumni to formulate long-term strategy on the purposes of university education.



## PROFESSIONAL LEADERSHIP

### Engineering Studies

Co-editor, MIT Press Engineering Studies series, 2017-Present.

Chair, Editorial Board, *Engineering Studies*, 2018-Present.

Co-founder and co-organizer, CHSTM Engineering Studies Group, 2020-2022.

Chair, Search Committee for Editor-in-Chief *Engineering Studies*, 2022.

Member, Search Committee for Editor-in-Chief *Engineering Studies*, 2016.

Associate Editor, *Engineering Studies*, Taylor and Francis, 2008-2017.

### History of Technology

Executive Council, Society for the History of Technology (SHOT), 2022-Present.

SHOT taskforce on career diversity, 2022-Present.

*Technology and Culture* taskforce on the future of the journal, 2022-Present.

Joan Cahalin Robinson Prize Committee, SHOT, 2006-2007.

Member, SHOT "Promethean" special interest group on strengthening relations with the engineering community, 2005-Present.

## COURSES TAUGHT

### Undergraduate

*Innovation in Context*, creator and instructor. Historical analysis, reflection, and project-based critical inquiry into meaning and practices of innovation.

*Navigating Innovative Labor*, designer and faculty mentor. Experiential learning courses designed to provide critical reflection for entrepreneurial internships in Washington DC.

*Engineering Cultures*, instructor. Lecture course on comparative history of engineering in six national contexts.

*Rise of System: The United States and the Technological World*, instructor. Global development of technology situated in the United States from colonial era to the present.

*The Social Life of Everyday Things*, creator and instructor. Material culture course taught both as a freshman seminar and a discussion course with students from 20 different majors.

*Modern American Utopias*, creator and instructor. Sophomore guided reading seminar exploring utopian and alternative social theory in the context of actual built communities in the United States from the 19<sup>th</sup> century to the present.

### Graduate

*Introduction to STS*, co-creator (with Sonja Schmid) and co-instructor. Core course for graduate curriculum.

*Interdisciplinary Cultures of Design*, creator and instructor. History of design theory & practice in arts, architecture, engineering, industrial design, and sciences.

*Origins of Innovation* creator and instructor. Multidisciplinary studio-based critical inquiry into meanings of innovation.

*Main Themes in the History of Science*, instructor. Methods and historiography of technoscience from 1500s to 1980s.

*Progress and Decline: Normative Visions of Technology*, creator and instructor. Cultural-intellectual history of technology from Francis Bacon to the Unabomber.

*The Agency of Things*, co-creator and co-instructor with other Mellon Fellows. Interdisciplinary theories and methods of material culture.

### Independent Studies

*History of Media Technologies*, Michael Meindl, 2018.

*Questioning Transdisciplinarity*, Kari Zacharias, 2014.

*Pedagogy and Technology*, Justin Shanks, 2013.

## **GRADUATE ADVISING**

### PhD Awarded as Chair

Seohyun Park (PhD 2022). “Damming the Nation: How Engineers Transformed Rivers into Water Tanks for Industrial South Korea. *Postdoctoral Scholar, National University Singapore*. [co-chair with Gary Downey]

Annie Yong Patrick (PhD 2021). “Engaging with the Invisible: STS Groundwork in an Electrical and Computer Engineering Department” *Postdoctoral Scholar, Georgia Institute of Technology*.

Marie Stettler Kleine (PhD 2020). “Proselytizing Problem-Solving: Religion, Humanitarian Engineers, and the Desire to ‘Do Good.’” *Assistant Professor, Colorado School of Mines*.

Kari Zacharias (PhD 2018). “The Transdisciplinary Dilemma: Making SEAD in the Contemporary University.” *Assistant Professor, University of Manitoba*.

Justin Shanks (PhD 2018). “Toward the Contemplative Technopedagogy Framework: A Multi-Site Analysis of Pedagogy and Digital Technology in Contemporary US Higher Education.” *Research Consultant*. [co-chair with Shelli Fowler]

Monique Dufour (PhD 2014). “Reading for Health: Bibliotherapy and the Medicalized Humanities in the United States, 1930-1965.” *Collegiate Assistant Professor, History, Virginia Tech*. [co-chair with Ann Laberge]

Jongmin Lee (PhD 2013). “Engineering the Environment: Regulatory Engineering at the U.S. Environmental Protection Agency, 1970-1980.” *Associate Professor, University of Science and Technology, Daejeon, Korea*.

### PhD Awarded as Committee Member

Sarvnaz Lotfi (PhD 2020). “Capitalizing the Measure of Our Ignorance: A Pragmatist Genealogy of R&D.”

Mel Eulau (PhD 2019). “The Fusion Enterprise Paradox: The Enduring Vision and Elusive Goal of Unlimited Clean Energy.”

Jonathan Grunert (PhD 2019). “Strict Fidelity to Nature: Scientific Taxidermy, U.S. Natural History Museums, and Craft Consensus, 1880s to 1930s.”

Charles DeSouza (PhD 2018). “Cost-Benefit Analysis as Democratic Ritual: The Controversy Over a Proposed Uranium Mining and Milling Project in Virginia (1981-2013).”

Nicolas Sakellariou (PhD 2015; University of California, Berkeley). “Life Cycle Assessment of Energy Systems: Closing the Ethical Loophole of Social Sustainability.”

Stephanie Kusano (PhD 2014; Engineering Education). “Understanding the Educational Significance of Informal Experiences for Engineering Learning.”

Kuo-Hui Chang (PhD 2010). “Taiwan High Speed Rail Project as Engineering/Political Community Formation.”

### MS Degrees Awarded

*As Chair:* 4

*As Committee Member:* 17

### International Advising (visiting students)

Toma Kawanishi, Fulbright Scholar, Kyoto University, 2021.

Geetanjali Date, Tata Institute of Fundamental Research, Mumbai, India, 2016.

### Fellowships Awarded to PhD Advisees

Residential Fellowship, Chemical Heritage Foundation; Junior Fellowship, International Center for Korean Studies at Kyujanggak Institute, Seoul National University; East Asian Studies Predoctoral Fellowship, Johns Hopkins University; Dissertation Improvement Grant, National Science Foundation; Lake Doctoral Dissertation Fellowship, Lilly Family School of Philanthropy, Indiana University; Residential Fellowship, Linda Hall Library; Joseph F. Hunkler Memorial Scholarship, Virginia Tech.

## **ADDITIONAL SERVICE AND ENGAGEMENT**

### To the Profession

Reviewer: American Council of Learned Societies; *British Journal for the History of Science*; Cornell University Press; *Engineering Studies*; *Futures*; *History and Anthropology*; *Historical Studies in the Natural Sciences*; *International Journal of Engineering, Social Justice, and Peace*; *Journal of American History*; *Journal of Cold War Studies*; *Journal of Engineering Education*; LEaDing Fellows Programme Office TU Delft; MIT Press; National Science Foundation; *Science and Ethics*; *Social Studies of Science*; *Technology & Culture*.

Reviewer External Promotion and Tenure: three cases.

Panel Reviewer: CHSTM, 2023; National Science Foundation, 2022, 2018, 2017; World Class University Program of the Korean Ministry of Education, Science, and Technology (MEST), 2010-2013.

Faculty mentor, 4S Annual Meeting, 2018.

### To the University

Program Evaluator, five-year review of the Bradley Department of Electrical and Computer Engineering, 2020-2021.

Presidential Advisory Group for Beyond Boundaries Strategic Planning, 2016-2017.

Search committee member for visual communication designer, School of Visual Arts, College of Architecture and Urban Studies, 2013-2014.

Senior Fellow, Residential College at West Ambler Johnston, 2012-2014.

Panelist for Future Faculty Development Program of the *Advance VT* initiative to diversify Virginia Tech's faculty, January 2013.

#### To the College

Undergraduate Curriculum Committee, 2017-2018.

Promotion and Tenure Committee, 2013-2015.

Search committee member for director of undergraduate student recruitment and career development, 2013-2014.

Panelist for "The Tenure Process," Pre-tenure mentoring sessions, 2013.

Search committee member for 19<sup>th</sup> century US historian, Department of History, 2011.

Curriculum development for a Material Culture and Public Humanities degree, 2009.

#### To the Department

Search committee chair for Assistant/Associate Professor of STS, 2022-Present.

Promotion and Tenure Committee, 2013-Present.

Faculty mentor for two colleagues, 2013-Present.

Search committee chair for Assistant/Associate Professor of STS, 2016-2017.

Search committee member for Assistant Professor of STS, 2014-2015.

Graduate Admissions Committee, 2009-2014.

Ad-hoc Committee on Evaluating Student Progress, 2010-2014.

Co-organizer, STS Seminar Series, 2009-2012.

Graduate Curriculum and Plan of Study Revision, 2009-2011.

#### **REFERENCES**

Available upon request.