

Matthew Wisnioski
Science, Technology, and Society
Virginia Tech
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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
Affiliated Faculty, Department of History
Affiliated Faculty, Department of Engineering Education
Faculty, Human-Centered Design Interdisciplinary Graduate Education Program
Undergraduate Program Director
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, The 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. Reviewed in *American Historical Review*; *British Journal for the History of
Science*; *Choice*; *Civil Engineering*; *Historical Studies in the Natural Sciences*; *INCOSE Insight*; *ISIS*; *Journal
of American History*; *New Books in Science, Technology, and Society*; *The Sixties*; *Social Epistemology*;
Technikgeschichte; *Technology and Culture*; WPRB.

In progress:

Matthew Wisnioski, *Every American an Innovator: How Innovation Became a Way of Life*. [Under contract
with MIT Press]

Journal Articles

Kari Zacharias and Matthew Wisnioski, "Land-Grant Hybrids: From Art and Technology to SEAD"
Leonardo 52, no. 3 (June 2019) [Forthcoming]
"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 (August 2014): 65-86.
Matthew Wisnioski and Kari Zacharias, "Sandbox Infrastructure: Field Notes from the Arts
Research Boom," *ARPA Journal* 1, no. 1 (May 2014). [http://arpajournal.gsapp.org/we-are-test-
subjects-2/](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 (Winter 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 (December 2003): 313-333.

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). [In press]
- “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* (Chicago: University of Chicago Press, 2011).
- “Let’s Be Fysiksists Again,” *Science* 332, no. 6037 (June 24, 2011): 1504-1505. Review of David Kaiser, *How the Hippies Saved Physics* (New York: Norton, 2011).

Reviews

- “Review: Diane E. Bailey and Paul M. Leonardi, *Technology Choices: Why Occupations Differ in Their Embrace of New Technology* (Cambridge, MA: MIT Press, 2015),” *Technology and Culture* 58, no. 2 (April 2017): 609-611.
- “Review: Henry Petroski, *To Forgive Design: Understanding Failure* (USA: Belknap Press, 2012),” *ISIS* 104, no. 4 (December 2013): 829-830.
- “Review: David Kaiser, ed., *Becoming MIT: Moments of Decision* (Cambridge, MA: MIT Press, 2010)” *Technology and Culture* 52, no. 4 (October 2011): 52-53.
- “Review: Peggy Aldrich Kidwell, et al., *Tools of American Mathematics Teaching, 1800-2000* (Baltimore: Johns Hopkins University Press, 2008)” *Technology and Culture* 50, no. 2 (April 2009): 500-502.

Editorials and Introductions

- Matthew Wisnioski, “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 Media

- “Inside the online world not indexed by search engines,” (Review of Jamie Bartlett, *The Dark Net*) *Washington Post*. June 26, 2015. http://www.washingtonpost.com/opinions/a-tour-of-the-webs-other-dark-side/2015/06/25/19a5ee2e-0e11-11e5-9726-49d6fa26a8c6_story.html
- “How Digital Technology is Destroying Your Mind,” (Review of Susan Greenfield, *Mind Change*) *Washington Post*. February 13, 2015. http://www.washingtonpost.com/opinions/heal-here/2015/02/13/a78172e0-855e-11e4-9534-f79a23c40e6c_story.html
- “‘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). http://www.washingtonpost.com/opinions/the-innovators-on-the-creation-of-the-digital-revolution-by-walter-isaacson/2014/10/03/cd41676c-37a0-11e4-9c9f-ebb47272e40e_story.html
- “‘Change or Die!’: A History of the Innovator’s Aphorism,” *The Atlantic* (December 12, 2012), <http://www.theatlantic.com/technology/archive/2012/12/change-or-die-the-history-of-the-innovators-aphorism/266191/>

AWARDS AND FELLOWSHIPS

- Outstanding Mentoring Award, Graduate School, Virginia Tech, 2018.
- Excellence in Advising Award, College of Liberal Arts and Human Sciences, Virginia Tech, 2018.
- 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 (CLAHS), Virginia Tech, 2014.
- XCaliber Award for Exceptional, High-caliber Contributions to Technology-enriched Teaching and Learning, Office of the Provost, 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 Ni₂Si on SiC for High Temperature Semiconducting Devices.” Materials Research Society Annual Meeting, San Francisco, 2000.

GRANTS

External Awarded

- 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. 2016-2021. \$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 Awarded

- 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.
- Visible Scholarship Initiative Mini Grant, University Libraries and CLAHS. \$500. 2013.
- Advance VT Mentoring Micro-Grant. \$1,500. Spring 2012.

SELECTED PRESENTATIONSKeynote Lectures

- "Aesthetic Virtue in the Defense Institute," Systems, Process, Art and the Social Symposium, Massachusetts Institute of Technology, February 4, 2011 [with: Benjamin Aranda, architect Aranda/Lasch; Michelle Kuo, editor *Artforum*; João Ribas, curator 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 (selected)

- "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 (selected)

- "Incubating Entrepreneurs: The NSF and the Making of Technoscientific Innovators in the 1970s." History of Science and Technology Colloquium. The Johns Hopkins University, Baltimore, MD, 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.

- “Bridges to Creative Renewal: Engineers and the Design Revolution in 1960s America,” commentary by Kelly Moore, STS Colloquium, Massachusetts Institute of Technology, February 13, 2012.
- “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.
- “Do Books Cause Revolutions?: Technology Out-of-Control as a Theme in Engineering Thought,” STS Seminar Series, University of Virginia, October 23, 2008.

Workshops and Symposia (selected)

- MIT Art Technology and Culture Salon “Thinking about 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.
- “How the Industrial Scientist Got His Groove” for the “Workshop in the History of Science: Groovy Science,” Princeton University, February 5, 2011.
- “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.
- “Engineering in Context: An American-European Workshop on Futures in Metadisciplinary Humanities and Engineering,” Colorado School of Mines, April 27-29, 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.

Panels Organized (selected)

- “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 20th Century Scientific Publics,” History of Science Society, Cleveland, OH, November 6, 2011.
- “Intellectual Cultures and the Meaning of Technology,” Society for the History of Technology, Minneapolis, MN, November 4, 2005.
- “Engineers and the Politics of Responsibility,” Society for the History of Technology, Atlanta, GA, October 18, 2003.

Invited Commentaries

- “The Cost of Engineering to Society,” Society for the History of Technology, St. Louis, MO, October 2018.
- “Non-Participation, Refusal, Resistance and Inaction,” Society for the History of Technology, 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,” Society for the History of Technology, Albuquerque, NM, October 9, 2015.

“Who Were the Innovators? Consumers, Gender, and Reform in 20th Century America,” Society for the History of Technology, Dearborn, MI, October 10, 2014.

“Lies, Damn Lies, and Their Characteristics,” History of Science Society, Vancouver, BC, November 2-5, 2006.

Conference Papers (selected)

“Lifelong Kindergarten: Play and the Making of Innovators.” Society for the History of Technology, St. Louis, MO, October 2018.

“Scientists in Philanthropy’s Image: Private Foundations and the Fostering of Technoscientific Innovators.” Society for the Social Studies of Science, Sydney, Australia, September 1, 2018.

“Creative Class Consciousness: The Origins of a Collective Identity.” Society for the Social Studies of Science, Boston, MA September 1, 2017.

“Big Bird and the Artificial Kidney: Innovation Prizes and Science Policy in the Nixon Era,” History of Science Society, Atlanta, GA, November 5-6, 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 13, 2015.

“Be an Innovation Millionaire! Innovation Expertise as Self-Help in the Post-Vietnam Era,” Society for the History of Technology, Portland, ME, October 11, 2013.

“Marketing Technoscientific Selves,” History of Science Society, Cleveland, OH, Nov. 6, 2011.

“Do Books Cause Revolutions?: Reading Like an Engineer in 1960s America,” University of Wisconsin Madison, Conference on the Culture of Print in Science, Technology, Engineering, and Medicine (STEM), September 11-14, 2008.

“‘Scienceteers’ and ‘Engitists’: Blaming and Changing in 1960s America,” History of Science Society, Washington, DC, November 1-4, 2007.

“Engineers as Critical Theorists of Modernity,” American Historical Association, Atlanta, GA, January 4-7, 2007.

“Engineers and the Cultural Revolution?” Columbia University Conference on the History of Activism/History as Activism, New York, NY, April 5, 2002.

“Playing Games: Chess, Automata, and Artificial Intelligence,” History of Science Society, Denver, CO, November 9, 2001.

TEACHING

Undergraduate

Innovation in Context, instructor; 2019; 2017; 2016. Virginia Tech. Historical analysis, reflection, and problem-based design course.

Navigating Innovative Labor, course designer and faculty mentor; summer 2016; Virginia Tech. Experiential learning courses designed to provide critical reflection for students in entrepreneurial internships in Washington DC.

Engineering Cultures, instructor; 2013, 2012, 2010, 2009; Virginia Tech. Lecture course on the comparative history of engineering in six national contexts.

Rise of System: The United States and the Technological World, instructor; 2009, 2008, 2007; Virginia Tech and Washington University. Explores global development of technology situated in the United States from colonial era to the present.

The Social Life of Everyday Things, instructor; 2007, 2005; Virginia Tech and Washington University.

Interdisciplinary material culture course taught as a freshman seminar and as a discussion course with students from 20 different majors.

Modern American Utopias, instructor; 2007; Washington University. Sophomore guided reading seminar exploring utopian and alternative social theory in the context of actual built communities in the United States from the 19th century to the present.

Graduate

Introduction to STS, co-instructor; 2018, 2011, 2010; Virginia Tech. Co-designed with Sonja Schmid as core course for new department curriculum.

Interdisciplinary Cultures of Design, instructor; 2018, 2012, 2009. Investigates the history of design theory & practice in architecture, engineering, industrial design, and sciences.

Origins of Innovation, instructor; 2016, 2013. Studio-based seminar in the Institute of Creativity, Arts, and Technology for STS, engineering, science, and design students.

Main Themes in the History of Science, instructor; 2013, 2011. Methods and historiography on themes of “knowledge in transit” and technoscience from 1500s to 1980s.

Progress and Decline: Normative Visions of Technology, instructor; 2010, 2007. Cultural-intellectual history of technology from Francis Bacon to the Unabomber.

The Agency of Things, co-instructor; spring 2006; Washington University. Interdisciplinary theories and methods. Co-taught with other Mellon fellows and program director Steven Zwicker.

Graduate Independent Studies

History of Media Technologies, instructor; 2018.

Transdisciplinarity in the Technical Professions, instructor; 2014.

Pedagogy and Technology, instructor; 2013.

GRADUATE ADVISING

Doctoral Degrees

Awarded as Chair

Kari Zacharias (PhD 2018). “The Transdisciplinary Dilemma: Making SEAD in the Contemporary University” Employed as Visiting Assistant Professor, Concordia University, Montreal, CA.

Justin Shanks (PhD 2018). “Toward the Contemplative Technopedagogy Framework: A Multi-Site Analysis of Pedagogy and Digital Technology in Contemporary US Higher Education. Employed full time as Council on Library and Information Resources Postdoctoral Fellow at Montana State University Library. [Shelli Fowler co-chair]

Monique Dufour (PhD 2014). “Reading for Health: Bibliotherapy and the Medicalized Humanities in the United States, 1930-1965.” Collegiate Assistant Professor, History, Virginia Tech.

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

Awarded as Committee Member

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.”

PhD Chair in progress

Marie Stettler Kleine, “Proselytizing Problem-Solving: Religion, Humanitarian Engineers, and the Desire to ‘Do Good.’”

Michael Meindl, “The Camera Room: A History of the Multiplane Camera in Animation.”

Seohyun Park, Water Resource Development in Post-WWII Korea. [co-chair with Gary Downey]

Annie Patrick, Comparative Analysis of Rigor in Nursing and Engineering

Committee Member in Progress

I currently serve on 10 PhD and MS student committees.

Masters Degrees

Awarded as Chair

Marie Stettler Kleine, (MS 2016). Exam.

Samantha Arthur (MS 2013). Exam.

Awarded as Committee Member

Annie Patrick (MS 2018). Exam.

Sara Grace Hood (MS 2015). Exam.

Jessie Mann (MS 2015). Exam.

Jonathan Grunert (MS 2014). “Aesthetics for Birds: Institutions, Artist-Naturalists, and Printmakers in American Ornithologies, from Alexander Wilson to John Cassin.”

Charles DeSouza (MS 2013). Exam.

Timothy Jennings (MS 2012). Exam.

Sumitra Nair (MS 2012). Exam.

Greg Nelson (MS 2012). Exam.

T. Jacob Spraker (MA History 2012). “Postwar Public Health and Commerce in a Rural Virginian Polio Epidemic.”

Mel Eulau (MS 2011). Exam.

Parissa Moosavi (MS 2011). Exam.

Joshua Erik Taylor (MS 2010). Exam.

Joseph A. Forte (MA History 2010). “‘We Weren’t Kidding’: Prediction as Ideology in American Pulp Science Fiction, 1936-1949.”

Harold M. Roberts (MS 2010). “Google AdWords as a Network of Grey Surveillance.”

SERVICE AND ENGAGEMENT

Profession

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

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

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

Reviewer: *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*.

Promotion and Tenure review, 2016.

Panel Reviewer, National Science Foundation, 2018, 2017.

Panel Reviewer, World Class University Program of the Korean Ministry of Education, Science, and Technology (MEST), 2010-2013.

Mentor, Society for the Social Studies of Science annual meeting, 2018.

Joan Cahalin Robinson Prize Committee, Society for the History of Technology, 2006-2007.

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

University

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

Co-chair of “preparing students” advancement area of university-wide strategic visioning initiative Beyond Boundaries, 2015-2016.

Planning for ACCelerate Creativity and Innovation Festival. Smithsonian National Museum of American History. Washington, D.C., 2017.

Associate Director, Human Centered Design IGEP, 2013-2014.

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.

College of Liberal Arts and Human Sciences

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, October 8, 2013.

Search committee member for 19th century US historian, Department of History, 2011.

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

Department

Director of Undergraduate Studies, 2018-Present.

Faculty mentor for assistant professor Ashley Shew, 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.

Co-organizer, Department Northern Virginia/Blacksburg Meet & Greet, 2009-2012.

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

Co-organizer, Modern America Workshop, Princeton University, 2002-2003.

Additional Student Service

Host of visiting graduate student Geetanjali Date from Tata Institute of Fundamental Research, Mumbai, India, July 2016.

Panelist for “From Conference Paper to Journal Article: The Ins and Outs of Publishing,” Public Knowledge Journal/Graduate Education Week, March 26, 2013.

Organizer, “On The Job Market,” Graduate Student Professional Development, 2013, 2012, 2007.

Organizer and panelist, “How to Win Grants and Get Papers Accepted as a Graduate Student,” STS Seminar Series, 2011.

Advisor for *Outside Authority: Virginia Tech STS Graduate Conference*, 2011.

REFERENCES

References available on request