

Donna M. Riley

Kamyar Haghghi Head and Professor
School of Engineering Education
Purdue University

PROFESSIONAL SUMMARY

Experienced Head of School with proven success in transforming higher education. Provides executive leadership to a complex academic unit with over 60 faculty and staff, over 3000 students, and research expenditures over \$5 million. Strong commitment to diversity, equity, inclusion and collaborative environments; superior communication skills; experience in administration and resource management; and a talent for developing strong stakeholder relations with peers, alumni/ae/x, and industry partners. Provides vision and strategic direction for achieving the School's goals of empowering its people, setting the pace in innovative programs, identifying and tackling the important research questions, and growing the engineering education community nationally and globally. The School houses a graduate program in engineering education with ~70 graduate students, three undergraduate programs: First-Year Engineering (>3000 students), two bachelor's programs in Interdisciplinary Engineering Studies and an ABET-accredited degree in Multidisciplinary Engineering (>100). Committed to transparent and collaborative leadership style. A stalwart advocate for the unit and the field, deploying strategic acumen and persuasive communication with key stakeholders to advance our vision and mission.

EDUCATION

Degree	Year	Institution
PhD	1998	Carnegie Mellon University (Engineering and Public Policy) Dissertation: <i>Human Factors in Exposure Analysis for Consumer Paint Stripper Use</i>
MS	1995	Carnegie Mellon University (Engineering and Public Policy) Thesis: <i>Optimization of Sulfur Removal in a PFBC Power Generation System</i>
BSE	1993	Princeton University (Chemical Engineering, Certificate in Environmental Studies) National Merit Scholar Thesis: <i>Sources of Heavy Metals in the Bergen County Sewage Treatment Plant</i>

LEADERSHIP RECOGNITION

- ELATES Fellow (Executive Leadership in Academic Technology, Engineering, and Science), 2021-2022.
- Violet Haas Award, 2021. Recognizes individuals, programs, or departments who have effectively facilitated the advancement of women at Purdue University.
- Fulbright Specialist, New Zealand, Equity and Inclusion in Engineering, 2018.
- AAAS Science and Technology Policy Fellow, U.S. Environmental Protection Agency, 2000-2001.

PROFESSIONAL APPOINTMENTS

PURDUE UNIVERSITY

Kamyar Haghighi Head and Professor, School of Engineering Education	2017-Present
Professor by Courtesy, Environmental and Ecological Engineering	2020-Present
Director, Engineering Workforce Development ASPIRE ERC	2020-Present

Executive leadership for a complex academic unit at a Top-10 Engineering Institution

Managed 24 faculty and 40+ professional staff; academic programs with 3000+ first-year students; 100+ bachelor's students in two degree programs; and 75 graduate students

- ❖ Launched new initiatives to strategically position the School for continued recognition
 - Created online graduate programs for certificate program, master's and hybrid Ph.D.
 - Competed successfully to become new home of the National Institute for Engineering Ethics
 - Established research footprint in engineering workforce development with DoD and NSF centers
 - Collaborated with School of Visual and Performing Arts to found the Fusion Studio for Entertainment and Engineering.
 - Shepherded facilities planning and move logistics for FYE operations in a new building
- ❖ Navigated complex budgets and fiscal processes
 - Managed > \$6 million annual operating budget
 - Collaborated with staff to develop and manage budgets, improve budget processes
 - Stewarded endowment distributions to enhance education and research programs, administer scholarships, pursue strategic priorities, reward excellence
 - Empowered executive team members to develop and manage budgets in their area through annual budget approval and regular periodic reporting of budgets.
- ❖ Led collaboratively, proactively and adaptively through COVID
 - Readied the unit for remote operations before the call for rapid transition in March 2020
 - Communicated confidence to students, staff, faculty, parents, and other stakeholders
 - Stayed ahead of the curve, securing funding, learning from success/failure in spring 2020, and anticipating student needs for social support in fall 2020, with proven retention results
 - Applied faculty research and disseminated best practices for at-scale online transition; leveraged School strengths in innovative learning in a partnership with Koch Foundation supporting COVID online transition and other educational transformations in First-Year Engineering.
 - Supported personnel by maximizing creativity, cooperation, and flexibility during COVID

Development and Partnerships

- ❖ Engaged development to build relationships, raise and steward funds.
 - Stewarded relationships through personal conversations, thank-yous, formal reporting, awards programs, special anniversary and reunion events
 - Secured \$2 million endowed professorship, \$500,000 in two legacy gifts for Theatre Engineering; established new endowment for First-Year Engineering with \$10 million naming proposal pending; sustained annual giving partnerships with industry; helped secure \$2 million COVID gift for online STEM education; cultivated new donors through 150th and IDE 50th celebrations; completed campaigns to fund a professional development endowment for advisors and two endowments supporting graduate students
 - Positioned Multidisciplinary Engineering as host of campus-wide Design Expo, leveraging a small donor gift to acquire additional internal and external resources
- ❖ Raised profile of School through strategic communications
 - INSPIRE's Engineering Gift Guide received the 2019 ASEE President's Award for the best use of media to encourage K-12 students to pursue engineering
 - The School Impact Report demonstrates ENE's value proposition
 - Research Briefs' Podcast positioned Purdue at center of field (8000 downloads in > 60 countries)

- “Engineering AfterNext” convened thought leaders and drove strategic direction on topics related to industry 4.0, revitalizing public higher education, reframing engineering ethics, and more
- ❖ Developed and Managed Strategic Partnerships
 - Worked with 18-member Industrial Advisory Council representing top companies across sectors including automotive, aerospace, computing/data, biomedical, chemical, energy, and consumer packaged goods (e.g., Amazon, Caterpillar, Dell, GE, GM, Lilly, Lockheed, P&G)
 - Stewarded relationships with industry for projects and innovation in First-Year Engineering (e.g., Texas Instruments, Kimberly Clark, General Motors, Amazon)
 - Developed partnership with NCKU Taiwan and MOU with Zhezhiang University, China supporting international exchange. Planning new partnerships in Latin America and Europe.
 - Facilitated partnership with Krannert School of Management for their new degree program that leverages first-year engineering in business contexts.
 - Collaborated with colleagues and counterparts in the College of Liberal Arts to establish the Fusion Studio for Entertainment and Engineering.

Educational Transformation and Student Success

- ❖ Managed Growth
 - Purdue FYE grew from 1966 new-beginner students in 2017 to 3063 in 2021. Retention increased from 88.3% with the 2016 entering cohort to 90.8% for the 2020 cohort. The 2-semester transition rate from first-year to engineering major increased from 75.6% to 82.3% for the same cohorts.
 - Purdue MDE doubled enrollment and became a college leader in gender, racial/ethnic and neuro diversity
 - Improved relationships with FYE program stakeholders through annual report; faculty exchange program; sophomore instructor summit; advisor liaisons; and visits to other departments
 - Successfully advocated for growth resources including advising and instructional support staff, lecturers and tenure-track faculty, classroom and advising space in new building.
- ❖ Fostered innovation to enhance student success across programs and contexts
 - Created new data science learning community – received University Academic Connection Award. Introduced flipped classroom for Engineering Your Major (EYM), partnered with Schools on video content
 - Developed Online Backbone for COVID shift – received University Award for Exceptional Teaching & Instructional Support during the COVID-19 Pandemic
 - Twice received Provost Instructional Equipment Grant to incorporate technology in active learning; partnered with TI for hands-on microcontroller-based projects
 - Launched Online Graduate Certificate for Teaching and Learning in Engineering
 - Developed, Pursued State Approval, & Launched Online Master's in Engineering Education. Established flexible hybrid PhD pathway using online offerings
 - Supported students becoming NSF Graduate Research Fellows (6) and Ford Fellow (1)
 - Oversaw collaborative efforts across two colleges to establish first-to-the-world accredited bachelor's degree concentration in Theatre Engineering
 - Truman, Boren, and Marshall Scholars - first Marshall Scholar from Purdue in 25 years
- ❖ Documented Processes and Measured Success
 - Oversaw ABET re-accreditation of bachelor's program in Multidisciplinary Engineering
 - Program evaluator praised self-study for thoroughness, quality of evidence, and clarity
 - ABET named FYE an Institutional Strength in re-accrediting all College programs: FYE students “get grounded in the fundamentals and discover their passion for engineering... the latest research in engineering education techniques is utilized. This provides the best educational experience for the students, and also provides faculty in the College ...an opportunity to experience the practical use of the best research in teaching and learning”
 - Oversaw development of FYE Annual Report documenting success across key metrics of interest to stakeholders including parents, industry, students, alums, and administrators

Inclusive Leadership: Fostering Strategic Vision and Equitable Cultures

- ❖ Created a Shared Sense of Mission, Vision and Culture
 - Led strategic visioning around the future of engineering education; department values exercises to assist faculty and staff in identifying connections between personal and institutional values/department mission; “big rocks” collective and individual strategic prioritization; and program-level strategic planning including comprehensive stakeholder engagement, data collection and analysis, and benchmarking
 - Developed new processes for transparency including creating executive leadership team, annual State of the School addresses, open standup meetings, regular visits with staff teams, policy collation, sharing, and review, and communities of practice
 - Empowered faculty governance via attention and instruction regarding process, roles and responsibilities of faculty governance

- ❖ Enhanced Diversity, Inclusion, Equity, and Justice (DIEJ)
 - Pursued equity as a career passion and research area, from women in engineering to anti- racism work to LGBTQ+ inclusion in engineering
 - Positioned faculty expertise in DIEJ to further university’s goals for DIEJ
 - Led initiative with outside consultants to work with faculty, staff, and students in deep accountability work (including my own) around diversity, inclusion, equity, and justice
 - As Director of Engineering Workforce Development for ASPIRE ERC, developed vision and strategy to establish robust pathways into and through engineering with seamless transitions across informal and formal pre-college education, the trades, military service, 2- and 4-year undergraduate education, graduate education, and learning in professional practice.
 - Developed Strategic Plan for Justice Equity, Diversity, and Inclusion for ENE at Purdue
 - Actions to date include a Climate and Culture Assessment, White Accountability Groups & People of Color Empowerment Groups, enhanced faculty recruitment; and realignment of graduate student portfolios to center justice.
 - Recognized as exemplar in ASEE’s Black in Engineering distinguished lecture, 2021.
 - Implemented new holistic review process to increase diversity among transfers into FYE.
 - Formalized Community Team to recognize hidden service in sustaining School culture.

- ❖ Recruited, Hired, Mentored, Retained, and Promoted Diverse Faculty, Staff, and Students
 - Led successful tenure and promotion of 14 faculty at Purdue, 10 of them female (7 women promoted to full professor, including the first woman ever to be promoted to full Professor of Engineering Practice at Purdue)
 - Pursued equity in all hiring, retention, and promotion practices
 - Managed departmental mentoring plan and conducted performance evaluations for faculty and staff, shifting evaluation to focus on unit’s vision, mission, and values, including DEIJ
 - Mentored personnel across roles, and career stages. Mentees diverse in gender identity and expression, race and ethnicity, first language, socio-economic status, sexual orientation, and religious beliefs
 - **Received** the 2021 Violet Haas Award recognizing “advancement of women in hiring, promotion, education, and salary, or...a positive professional climate for women at the University.”

VIRGINIA TECH

Professor of Engineering Education	2014-2017
Affiliate Faculty, Science, Technology & Society and Women & Gender Studies	2014-2017
Interim Head, Department of Engineering Education	2016-2017

- ❖ Navigated complex budgets and fiscal processes
 - Managed departmental budget
 - Collaborated with staff to develop and manage budgets, improve budget processes
 - Shaped / adapted University’s new budget model (modified version of RCM)

- ❖ Fostered innovation for student success
 - Relaxed conformity requirements in First-Year Engineering to encourage innovation
 - Led NAE-funded project on infusing ethics in the first-year curriculum
- ❖ Enhanced Diversity, Inclusion, Equity, and Justice (DIEJ)
 - Led department values exercise to assist faculty and staff in identifying connections between personal and institutional values/department mission
 - Recruited, hired, mentored, and promoted diverse talent
 - Leveraged University mentoring program and partnered with CDO strategic initiative to successfully hire Black female and Latino faculty members
 - Successfully shepherded promotion of female faculty to full professor
 - Advocated for disabled and transgender grad students' access to appropriate restrooms

NATIONAL SCIENCE FOUNDATION

Program Director and Lead, Engineering Education, Engineering Directorate 2013-2015

- ❖ Managed and Advocated for Fiscal Resources
 - Budget upon entering NSF was \$10 million with a projected \$0 budget next fiscal year; Worked with senior management to restore \$10 million and increase to \$25 million with bold new strategic initiative, Revolutionizing Engineering Departments (RED)
 - Ensured proper stewardship of \$25 million in taxpayer dollars
 - Promoted the value of engineering education research among Directorate Leadership, Advisory Committees, and Executive Branch Personnel beyond NSF
- ❖ Strategically Assessed and Positioned Program
 - Performed internal evaluations of my research programs
 - Strategically repositioned program description in Professional Formation of Engineers to address gaps identified in evaluation
 - Advised and shaped education and diversity aspects of Engineering Research Centers
 - Convened stakeholders across directorates for strategic visioning for the future of engineering education at NSF

SMITH COLLEGE

Associate Professor, Picker Engineering Program	2007-2014
Affiliate Faculty, Ethics Program and Women & Gender Studies	2064-2014
Assistant Professor, Picker Engineering Program	2001-2007
Affiliate Faculty, Environmental Science & Policy Program	2001-2007

Founding Faculty Departmental Leadership, Picker Engineering Program

During my time as faculty at Smith (and the year between receiving my offer and official start date), I was fully engaged in the growth and development of the Picker Engineering Program. With a permanent faculty of five including the Director, we were heavily involved with Admissions, Curriculum, Policy, Retention, and other matters, detailed below due to their unusual nature for early career faculty members.

- **Administration** – Through weekly faculty meetings from 2001-2004, we developed all department policies and procedures including by-laws, tenure and promotion processes, mentoring and annual review processes, and student policies.
- **Networking, Fundraising, and Program Building** – To gain visibility and support for the program, we built partnerships with corporate and alumnae donors, national organizations, and prominent individuals. We hosted numerous speakers and scholars in residence. We presented to the Trustees, Corporate and Academic Advisory Boards, alumnae associations, parents, prospective students, and other stakeholders. We networked internally across disciplines on campus.

- **Curriculum Development** – Beginning in fall 2000, we designed the curriculum for the engineering major. I drafted the program’s vision and mission statement, helped write and edit the proposal for the major, and developed and proposed new courses to the Committee on Academic Priorities. All courses were new preparations and faculty engaged in regular, frequent discussions of curriculum and pedagogy. I participated from 2002-2007 in meetings with physics and math to coordinate curriculum content and discuss student performance and preparation. From 2005 forward, I leveraged my CAREER award on implementing and assessing liberatory pedagogies in engineering and the liberal arts environment to empower students and decolonize / diversify engineering curricula.
- **Accreditation** - Beginning in 2001 with my attendance of a national training workshop, I was fully involved in establishment and maintenance of ABET accreditation processes including regular meetings for policy planning and curricular review, editing of documents, collection, organization, and presentation of evidence, and site visit hosting. I convened stakeholder committees, and drafted program objectives and outcomes.
- **Advising** – I maintained a high load to assist student navigating our new program, informally advised first-years, served as a pre-major advisor every year, mentored early research students, and served as a specialist advisor for both study-abroad and transfer students.
- **New Building** – I participated in architect selection and frequent regular meetings (user’s group meetings, architect meetings, meetings within engineering) to vision the building, review plans, design classrooms, and select equipment and furniture. The building planning process began in 2001 and lasted through building opening in 2009.
- **Championing Liberal Education and Lifelong Learning** – I advocated for engineering at liberal arts and women’s colleges to prospective students, employers, parents, alums, faculty, administrators, accreditors, funding agencies, thought leaders in the field, and the public.
- **Influencing new initiatives** – With colleagues across campus I wrote a proposal that shaped the foundation of Smith’s initiative in community-based learning. With colleagues on the College Council on Community Policy, I led a committee that conducted an initial campus sustainability audit and led to the creation of a campus sustainability committee and initiative.

PROFESSIONAL DEVELOPMENT (selected)

- Teaching Vonnegut Workshop, “Vonnegut and the Environment,” Karl Vonnegut Museum, summer 2021 [remote].
- Mediation Training, Purdue University. May 17-20, 2021. [remote]
- Enhancing Entrepreneurial Mindset for Women in Engineering Education Leadership, June 2021.
- NSERC-NSF Workshops on Inclusive and Intersectional Engineering and Computer Science Research, Feb 6-7 2020 and Feb 24-26, 2021 [remote].
- Anti-Racism White Accountability Group series, Dr. Kathy Obear, fall 2020.
- He Awa Whiria Indigenous Engineering Workshop, Waikato Institute of Technology, Hamilton, NZ December 2018.
- NSF Program Officer Training, spring-summer 2013.
- Mellon 23 Feminist Ethics Workshop, De Pauw University, June 2010.
- Kahn Liberal Arts Institute Fellow, A Festival of Disorder, 2008-2009.
- Community-based Learning and Research Workshops, Smith College, May 2008 and April 2005.
- OWLS (National Leadership Skills and Community Building for Junior Women Faculty in Engineering), 2001-2003.
- Talking Towards Technopedagogy, Mellon Workshop, Bryn Mawr College, summer 2002.
- Outward Bound Professional School, summer 2001.
- ABET Assessment Workshop, Detroit, July 2001.
- NSF Engineering Education Scholars Workshop, summer 1998.
- NSF Graduate Research Ethics in Education Workshop, spring 1998.
- Eberly Center for Teaching Excellence, Documentation Program, 1996-1998.

HONORS AND AWARDS

Awards for Research Excellence

- William H. Corcoran Award (best paper in *Chemical Engineering Education*) for “A Sociocultural Learning Framework for Inclusive Pedagogy in Engineering,” 2022.
- Overall Best Division Paper Award, MIND, American Society for Engineering Education, 2019.
- Fellow, American Society for Engineering Education, 2016.
- Alfred N. Goldsmith Award, IEEE Professional Communications Society, 2016.
- Best Paper, LEES Division (ASEE Best Paper Nominee) (2011) for “We’ve Been Framed! Ends, Means, and the Ethics of the Grand Challenges.” American Society for Engineering Education Annual Conference, Vancouver, Canada.
- Best Paper, LED (ASEE Best Paper Nominee) (2008) for “Ethics in Context, Ethics in Action: Getting beyond the individual professional in engineering ethics Education.” American Society for Engineering Education Annual Conference, Pittsburgh, PA.
- Benjamin J. Dasher Award (2006) for “‘You’re all a bunch of fucking feminists’: Addressing the Perceived Conflict between Gender and Professional Identities using the Montreal Massacre.” Frontiers in Education Conference, San Diego, CA.
- Helen Plants Award Honorable Mention (2006). For “Not Many Women in Engineering, so why should I care?” Frontiers in Education Conference, San Diego, CA.
- NSF CAREER Award (2005) on critical pedagogies in engineering education.
- Clayton Postdoctoral Fellow in Industrial Ecology, Princeton University, 1998-2000.
- Dolores Zohrab Liebman Fellowship, (National Graduate Research Fellowship), 1997-1998.
- International Society for Exposure Analysis Student Award (1997) For “Characterization of Methylene Chloride Exposure during Home Paint Stripper Use,” ISEA Annual Meeting.
- National Science Foundation Honorable Mention (1993) Graduate Fellowship Competition.
- Michelle J. Goudie Thesis Prize (1993) for best independent research on an environmental topic, Department of Chemical Engineering, Princeton University.

Distinguished/Keynote Lectures

- MPACT Lecture, “Showing Up: Toward Social Justice in Engineering.” University of Maryland, April 12, 2022.
- Keynote Lecture, “Engineering and White Supremacy.” Engineering Change Lab USA Ideas Institute, Boulder, CO, October 12, 2021. [remote]
- Guest Lecture, National Academy of Engineering, “Moral Imagination for Social Justice in Engineering.” March 12, 2021.
- Keynote Lecture, Forum on Philosophy, Engineering, and Technology, “Engineering Principles: Public Values in Professional Life,” Valparaiso, Chile, November 2020 (virtual).
- Keynote Lecture, Australasian Association for Engineering Education, “Accountability for Diversity: Addressing Power and Privilege in Engineering Education.” Hamilton, New Zealand, Dec. 9, 2018.
- Keynote Lecture, Out for Undergrad National Conference. “Still Here, Still Queer, Still an Engineer.” Cargill, Minneapolis, MN, October 7, 2018.
- Distinguished Lecture, American Society of Engineering Education Annual Meeting. “The Long Arc: Diversity in ASEE, 1893-2018.” Salt Lake City, UT: June 2018.
- Keynote Panelist, What’s our “Time’s Up” moment?” Collaborative Network for Engineering and Computing Diversity (CONECD), Arlington, VA: May 1, 2018.
- Keynote Lecture ASEE SE Conference, On Creating a Collaborative and Inclusive Environment. Daytona Beach, FL, March 5, 2018.
- Plenary Lecture, Society for the History of Technology (SHOT). “Power Struggle: Democracy, Technology, and Participation amid Aging Infrastructure.” Philadelphia, PA, October 26, 2017.

- Distinguished Lecture, American Society of Engineering Education Annual Meeting. “Mind the Gap - What the ABET Crisis Can Teach Us about Connecting Research and Practice” New Orleans, LA: June 2016.
- Plenary Lecture, IEEE Professional Communications Society Annual Meeting. “Hedging ABET: Can Engineering Communication Survive the Decimation of Liberal Education in the Proposed Accreditation Standards? Austin, TX, October 4, 2016.
- Keynote Lecture, Conference on Pre-Tenure Women. “Redeeming Risk.” Purdue University, West Lafayette, IN, September 24-25, 2015.
- Keynote Panel, Out and Accomplished. Out to Innovate, Atlanta, GA, November 7-9, 2014.
- Keynote, Ethics Education in Science and Engineering Annual Meeting. National Science Foundation. “EASE and Social Justice.” Arlington, VA: September 2013.
- Distinguished Lecture, American Society of Engineering Education Annual Meeting. “Rigor/Us: Merit Standards and Diversity in Engineering Education Research and Practice.” Atlanta, GA: June 2013.
- Public Lecture, Institute for Advanced Studies, University of Western Australia. “Engineering and Social Justice.” Perth, Australia: May 2012.
- Keynote, Engineering, Social Justice and Peace Annual Conference. “Voluntelling and Voluntourism: US Approaches to Engineering and Global Development.” Bogota, Colombia: July 2011.
- Hennebach Lecture, Colorado School of Mines. “Energy and Justice: Making the connections in engineering thermodynamics” Golden, CO: February 2011.

Awards for Teaching Excellence

- College of Engineering Outstanding Educator (based on student teaching evaluations), Fall 2021.
- College of Engineering Outstanding Educator (based on student teaching evaluations), Fall 2019.
- National Academy of Engineering Energy Ethics Video Challenge (2013). Advised:
 - Best Video & Best in Theme: Directions for Energy Policy: Issues of Fairness & Sustainability
 - Best in Themes: Responsible Energy Consumption and Responsible Energy Innovations
 - Best in Theme: Smart Grid Technology – Advantages and Disadvantages
- Sterling Olmsted Award (2012) Liberal Education/Engineering and Society Division, American Society for Engineering Education (ASEE). For “distinguished contributions to the development and teaching of liberal arts in engineering education”
- Educator of the Year (2010) National Organization of Gay and Lesbian Scientists and Technical Professionals (NOGLSTP).
- AWMA Student Paper Award 3rd Place. (2005) Advised: Ingegneri, L.E., Passi, L.S., Rubenstein, R.S.M., and Riley, D.M. Behaviorally Realistic Exposure Assessment for Para-dichlorobenzene-based consumer products. Air and Waste Management Association Annual Meeting, Minneapolis, MN, June 20-24, 2005.
- Omer Lee Award (1994) for best project course, Department of Engineering and Public Policy, Carnegie Mellon University

PUBLICATIONS

Books

3. Baillie, C., Pawley, A. and Riley, D.M., eds. *Engineering and Social Justice: In the university and beyond*. West Lafayette, IN: Purdue University Press, 2012.
2. Riley, D.M. *Engineering Thermodynamics and 21st Century Energy Problems: A textbook companion for student engagement*. San Rafael, CA: Morgan and Claypool, 2011.
1. Riley, D.M. *Engineering and social justice*. San Rafael, CA: Morgan and Claypool, 2008.

Refereed Journal Articles

30. Riley, D., Hess, J., and Jesiek, B. Decentering an Engineering Ethics Center. *Teaching Ethics*, **21** (2):199-212 (2022).
29. Farrell, S., Godwin, A., and Riley, D. "A Sociocultural Learning Framework for Inclusive Pedagogy in Engineering." *Chemical Engineering Education*, **55**(4):192-204, Fall 2021. <https://doi.org/10.18260/2-1-370.660-128660>.
28. Arif, S., Avery, L., Ba-Aoum, M., Baillie, C., Baptiste, S., Brownwell, S., Byrne, C., Catalano, G., Chahim, D. M., Cunningham, A., Feinblatt, E., Fernandez, S., Forero, C. A. N., Gupta, M., Haralampides, K., Harnisch, E., Herring, C., Hobbs, R., Hyde, R., Iyer, D., Jones, S., Kadetz, P., Kilic-Bahi, S., Lander, D. C., Leaning, F., Lehr, J., Lurkis, E., Lynch, E., Major, J., Matovic, D., McCann, J., McMillan, J., Mir, D., Newbold, C., Osorio, C., Ottinger, G., Petroff, M., Reina Roza, J. D., Riley, D., Schlemer, L. T., Shafer, A., Shetler, M., Smit, R., Stefanski, K., Stein, D., Stenger, K., Stoddard, E., Taylor, J., Telliel, Y., Thornton, J., Trenshaw, K., Tshirgi, N., Tushaus, C., Ulakovic, N., Vega, J., Wallin, P., Wertz, R., Yoffee, E., & Zarazaga, J. (2021). Critical Conversations and A Call to Action! : A collective report from the June 2020 virtual gathering . *International Journal of Engineering, Social Justice, and Peace*, **8**(2), 149–155. <https://doi.org/10.24908/ijesjp.v8i2.15157>.
27. Adams, R., Brightman, A., DeBoer, J., Jamieson, L., Oakes, W., Riley, D., and Rudin, P. Cultures of Engagement and Innovation: Realizing Purdue's Public Mission of Access and Impact in Engineering Education. *Advances in Engineering Education*, **9**(3), August 2021. <https://advances.asee.org/cultures-of-engagement-and-innovation-realizing-purdues-public-mission-of-access-and-impact-in-engineering-education/>.
26. Katz, A., Reid, K, Riley, D. and Van Tyne, N. Overcoming Challenges to Enhance a First Year Engineering Ethics Curriculum. *Advances in Engineering Education*, **8**(3) October 2020. <https://advances.asee.org/overcoming-challenges-to-enhance-a-first-year-engineering-ethics-curriculum/>
25. Masters, A., McNair, L., and Riley, D. Exploring Liberatory Makerspaces: Preliminary Results and Future Directions. *Advances in Engineering Education*, **7**(3) December, 2019. <https://advances.asee.org/exploring-liberatory-makerspaces-preliminary-results-and-future-directions/>
24. Riley, D. Pipelines, Persistence and Perfidy: Institutional Unknowing and Betrayal Trauma in Engineering. *Feminist Formations*, **31**(1) 1-19, 2019.
23. Riley, D. Rigor/Us: Building Boundaries and Disciplining Diversity with Standards of Merit. *Engineering Studies*, **9**(3): 249-265, 2017.
22. Riley, D. Facepalms and Cringes: Liberal Education Misapprehended. *Engineering Studies*, **7**(2-3):138-141, 2015. Riley, D. Facepalms and Cringes: Liberal Education Misapprehended. *Engineering Studies*, **7**(2-3):138-141, 2015.
21. Riley, D., Saleh, N., Matovic, D., and Baillie, C. Highland Lake Workshop Conversations about Critical Action. *International Journal of Engineering, Social Justice, and Peace*, **3**(1): 1-6, 2014.

20. Riley, D. Mental models in warnings message design: A review and two case studies. *Safety Science*, **61** (1):11-20, 2014.
19. Riley, D. Hidden in Plain View: Feminists doing engineering ethics, engineers doing feminist ethics. *Science and Engineering Ethics*, **19**(1): 189-206, 2013.
18. Riley, D. We've Been Framed! Ends, Means and the Ethics of the Grand(iose) Challenges. *International Journal of Engineering, Social Justice, and Peace*, **1**(2): 123-136, 2012.
17. Claris, L. and Riley, D. Situation Critical: Critical Theory and Critical Thinking in Engineering Education. *Engineering Studies*, **4**(2): 101-120, 2012.
16. Litzinger, T. A., Lattuca, L. R., Hadgraft, R., & Newstetter, W. Learning Experiences that Support the Development of Expert Engineering Practice, *Journal of Engineering Education (Special Centennial Issue) 100* (1), 1–29, 2011. [contributing author].
15. Nieuwsma, D. and Riley, D. Designs on Development: Engineering, Globalization, and Social Justice. *Engineering Studies* **2**(1): 29-59, 2010.
14. Riley, D., Howe, S., Reinhardt, N., Farris, J., and Lane, P. Design for Economic Empowerment: Student Engagement and Learning across Cultures and Disciplines. *Practice and Evidence of Scholarship of Teaching and Learning in Higher Education*, **4**(2): 147-172, 2009.
13. Riley, D. and Claris, L. From Persistence to Resistance: Pedagogies of Liberation for Inclusive Science and Engineering. *International Journal of Gender, Science, and Technology* **1**(1) 2009.
12. Riley, D., Pawley, A.L., Tucker, J. and Catalano, G.D. Feminisms in Engineering Education: Transformative Possibilities. *National Women's Studies Association Journal (now Feminist Formations)*, **21** (2):21-40, 2009.
11. Riley, D.M. and Claris, L. Developing and Assessing Students' Capacity for Lifelong Learning. *International Journal of Engineering Education* **24** (5): 906-916, 2008.
10. Riley, D.M. LGBT-friendly work spaces in engineering. *Leadership and Management in Engineering*, **8** (1): 19-23, 2008.
9. Riley, D.M. and Bloomgarden, A. Learning and Service in Engineering and Global Development. *International Journal of Service Learning in Engineering*, **1** (2): 48-59. 2006.
8. Riley, D., Newby, C.A., and Leal-Almeraz, T. Motivating ethnographic methods in risk assessment: Cultural and religious uses of mercury in Latino and Caribbean communities." *Risk Analysis* **26**(5): 1205-1221, 2006.
7. Newby, C.A., Riley, D., and Leal-Almeraz, T. Mercury Use and Exposure among Santeria Practitioners: Religious vs. cultural practice in Northern New Jersey, USA. *Ethnicity and Health*. **11** (3) 287-306, 2006.
6. Riley, D. "Employing Liberative Pedagogies in Engineering Education." *Journal of Women and Minorities in Science and Engineering*, **9** (2): 137-158, 2003.
5. Cox, P., Niewöhner, J., Pidgeon, N., Gerrard, S., Fischhoff, B., Riley, D. The use of mental models in chemical risk protection: Developing a generic workplace methodology. *Risk Analysis*, **23**(2): 311-324, 2003.
4. Riley, D., Newby, C. A., Leal-Almeraz, T., and Thomas, V. M. "Assessing Elemental Mercury Vapor Exposure from Cultural and Religious Practices," *Environmental Health Perspectives* **109** (8): 779-784, 2001.
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Exhibition

- subRosa (with Elisabeth Armstrong's class in Youth Culture and Gender and my course EGR 260: Mass and Energy Balances). [Can You See Us Now? ¿Ya Nos Pueden Ver?](#) - Installation and artist residency for "The Interventionists; Art in the Social Sphere." Massachusetts Museum of Contemporary Art, May 2004-April 2005. Curated by Nato Thompson. (www.massmoca.org)

Under Review

- Riley, D. Engineering Principles: Public Values in Professional Life. Chapter in final review for *Rethinking Technology and Engineering Dialogues across Disciplines and Geographies*, A. Fritzsche and A. Santa-Maria, eds. Series on Philosophy in Engineering and Technology, Springer.
- Leydens, J., Lucena, J., and Riley, D. Engineering Education and Social Justice. *Oxford Research Encyclopedia of Education*, under final review
- Katz, A., Nair, I. and Riley, D., eds. *Chronicles of Engineering Ethics Trailblazers*. In preparation for Purdue Press.

GRANTS

External (10 grants: \$8,503,874 [\$2,240,516])

11. **National Science Foundation** (2021-2024) Collaborative Research: Research: Intersections between Diversity, Equity, and Inclusion (DEI) and Ethics in Engineering. (349,516 [116,505]). PI Justin Hess. Co-PI with Brent Jesiek and Andrew Katz, PI on Virginia Tech's portion. NSF EEC 2027519.
10. **National Science Foundation** (2020-2025) NSF Engineering Research Center for Advancing Sustainability through Powered Infrastructure for Roadway Electrification (ASPIRE). PI, Regan Zane, Utah State University. Engineering Workforce Development Director for a 10-year, \$52 million project with approx. \$10 million allocated to Engineering Workforce Development across four partner institutions. Co-PI for Purdue's portion of \$5,481,769 (\$931,901 personal share).
9. **National Science Foundation** (2017-2020) EAGER: Impact of the Emerging Engineering Education Research and Innovation Community. (\$300,000 [\$75,000 to Riley]), PI with Audeen Fentiman at Purdue and Ann McKenna at ASU) NSF EEC 1736351.
8. **National Science Foundation** (2017-2020). Collaborative Research: Reform and Governance in Engineering Education (\$358,682 [\$152,494 to Riley]), PI with Atsushi Akera, PI at Rensselaer, and Alan Cheville, PI at Bucknell) NSF SES 1655750.

7. **National Science Foundation** (2017-2022). [Institutional Transformation: Cultivating an ethical STEM culture through an integrated undergraduate general education](#) (\$599,282 [\$29,964 to Riley]), co-PI with Jill Sible PI, Thomas Staley, Diana Bairaktarova, Sara Jordan co-PIs. NSF SES 1737042.
6. **National Science Foundation** (2016-2020). Collaborative Research: Building Social Infrastructure for Achieving Change at Scale (\$430,786 [\$299,329 to Riley]), PI with Jennifer Karlin, PI at University of Southern Maine. NSF EEC 1607809.
5. **National Science Foundation** (2016-2020). MAKER: Liberatory from the Ground Up: An Ethnography of Maker and Hacker Spaces Achieving Diverse Participation. (\$344,033 [172,016.50 to Riley]), PI with Lisa McNair, coPI. NSF EEC 1623411.
4. **National Science Foundation** (2011-2015) E-Book Dissemination of Curricular and Pedagogical Innovations in Thermodynamics (\$145,993). NSF EEC 1037655.
3. **National Science Foundation** (2005-2011). CAREER: Liberative Pedagogies in Engineering Education. (\$404,813). NSF EEC 0448240.
2. **New York and Pennsylvania Campus Compact** (2007-2010). Transforming Institutions through Service-Learning in the Academic Disciplines (\$48,000 [\$500 to Riley], Senior Personnel with George Catalano, PI. Grant made to Binghamton University; Engineering, Social Justice and Peace Network managed work collectively).
1. **New Jersey Department of Environmental Protection**. (2001-2002) Cultural Use of Mercury in New Jersey: Use and Exposures." (\$41,000 [\$11,000 to Smith]. Co-PI with Michael Gochfeld PI).

Internal (16 grants: \$59,000)

- **Subvention Funds** (2011) For indexing *Engineering and Social Justice: In the University and Beyond*, \$608.50.
- **Kahn Liberal Arts Institute Fellowship** (2008-2009) A Festival of Disorder. \$3000.
- **Design for Economic Empowerment: Planning a Center for Innovation in Estelí** (Summer 2008) \$7340 (Combined funding from Office of the Provost and Picker Engineering Program). With S. Howe and N. Reinhardt
- **Rappaport Fellowship**, Design for Economic Empowerment in Nicaragua (2007—2008). \$7502. with S. Howe and N. Reinhardt
- **Picker Fellowship** (2004-2005). Tracking Consumer Sources of Indoor Air Pollution Using Product Life-Cycle and GIS Analysis \$10,000
- **Rappaport Fellowship** (2002-2003). Interdisciplinary Course Development on Appropriate Technology for Development, Building Connections with NGOs. \$6500
- **Curriculum Development Fellowship** (Summer 2003). Non-Western Conceptions of Thermodynamics. \$4500
- **Student Research Support** (2001-2012) 9 grants totaling \$19,536: Using SPME to Characterize Emissions from the Florence Casket Company (\$1753.40), Developing SPME Methods for Indoor Air Quality (\$2082.60), History of Engineering at Smith College (\$1200), Engineering Thermodynamics in the 21st Century (\$3600), Designing Improved Warning Labels for Indoor Pesticide Products (\$900), Modeling Mercury Concentrations in Indoor Air following Spill Events (\$3300), Exposure to Particulates and Solvents following Jewelry Making (\$900), Non-invasive Testing of Contaminated Repatriated Native American Artifacts (\$4900), Pesticides in Households (\$900).

LECTURES AND PRESENTATIONS

INVITED LECTURES

National Academy of Engineering

- Riley, D. The Case for Public Understanding of Engineering AND Engineering Understanding of the Public. Advancing Public Understanding of Engineering, April 18-21 [remote].
- Lambrinidou, Y., Lopez, A., Pauli, B., and Riley, D. Core Values for Community-Engaged STEM Research. NAE Workshop on Teaching Research Ethics and Scientific Integrity, March 1, 2018, Chicago, IL.
- Riley, D. Pros and Cons of ABET Criteria Changes. NAE Forum on ABET Criteria Changes, February 16, 2016.
- Riley, D. Experience and Possibilities of Engineering Research Centers in the area of Education. NAE Committee on Future of Center Based Multidisciplinary Engineering Research, December 14, 2015.
- Riley, D. Engineering, Justice, and Human Rights: Engaging Students for Ethical Action on Climate. Climate Change Education Partnership Conference, Arizona State University, January 28, 2013.
- Riley, D. The difficulties and possibilities for engineers working toward social justice. Association for Practical and Professional Ethics and National Academy of Engineering mini-conference on Engineering towards a more just and sustainable world, March 6-7, 2010. <http://www.onlineethics.org/23414.aspx>
- Riley, D. Discussant. Engineering, Social Justice, and Sustainable Community Development workshop, National Academy of Engineering, October 2-3, 2008.
- Riley, D. "Designing a Sustainable Future: Greening the Engineering Curriculum." Engineers Forum on Sustainability, National Academy of Engineering, October 31, 2003.

National Science Foundation

- Riley, D. Engineering Climate Change: Creating an Inclusive Environment for LGBT Individuals in STEM. National Science Foundation, June 8, 2016.

Accreditation Board on Engineering and Technology

- Riley, D. Diversity-Enhancing Strategies and Lessons Learned at Smith College's Picker Engineering Program. Accreditation Board on Engineering and Technology Annual Meeting. Nashville, TN, October 28-29, 2004.

European Society for Engineering Education (SEFI)

- Riley, D. Making Meaning: Engineering Ethics and the Aspirational Good. SEFI Ethics Working Group Seminar. June 22, 2022. [remote]

International Conferences

- Riley, D.M., Pawley, A., and Slaton, A.E. (August 2020) Cambridge Handbook of Engineering Education Research – Updated Perspectives (CHEER UP).
- Riley, D., Panelist with Sonja Macfarlane, Richard Coll, and Sheryl Sorby. Panel on Diversity in Engineering. Australasian Association for Engineering Education, Hamilton, NZ, December 9, 2018.
- Riley, D., Panelist, with C. Bailie and D. Nieusma. Engineering, Social Justice and Peace: An Introduction. Annual Conference on Engineering, Social Justice, and Peace, University of Puerto Rico at Mayaguez, September 3-5, 2015.
- Riley, D. Panelist, with A. Pawley, M. Orr, and L. McLoughlin. Engineering and Social Justice: In the University and Beyond. Global Marathon for Women in Engineering & Technology, March 6-8, 2013.

- Invited Panelist (with Michael Wogalter, Kenneth Laughery, Ellen Haas, Judy Edworthy, Alison Vredenburgh, and Dan Egilman), moderated by Michael Kalsher. From Practice to Science: How application guides warning research. International Ergonomics Association Meeting, Maastricht, Netherlands, July 14, 2006.
- Riley, D. Engineering Revolution: Launching the Picker Engineering Program at Smith College. Universities for Women: Challenges and Perspectives. Sri Padmavati Mahila Visvavidyalayam (University for Women), Tirupati, India, February 1-3, 2006. Delivered in absentia.

National Conferences

- Riley, D. [co-moderator] Roundtable on Scholarly Publications. ASEE Annual Conference. June 2022. [upcoming]
- Riley, D. [panelist] Residential engineering education in a time of COVID. ASEE Annual Conference. June 2022. [upcoming]
- Riley, D. [panelist] Contributors Panel and Book Signing for *Queering STEM Culture in US Higher Education: Navigating Experiences of Exclusion in the Academy* ASEE Annual Conference. June 2022. [upcoming]
- Riley, D. [panelist]. LEES Olmsted Awardees Session. ASEE Annual Conference [virtual], July 2021.
- Riley, D. [speaker] Who's in the Driver's Seat in Engineering Education? ASEE Town Hall, Atsushi Akera, Organizer. ASEE Annual Conference, Salt Lake City, UT, June 2018.
- Riley, D. [panelist] Grant Writing. Panel on Building a Research Program in Engineering, ASEE Annual Conference, Salt Lake City, UT, June 2018.
- Riley, D. [discussant] Changing the Professional Formation of Engineers: Revolutionizing Engineering and Computer Science Departments. 2018 AERA Annual Meeting, New York City, April 13 –17, 2018.
- Riley, D. Queering Engineering. Georgia Tech Workshop on LGBTQ Inclusion in Engineering, March 2, 2018.
- Riley, D. [panelist] Associate Dean's Panel on Engineering Education Research. ASEE Annual Conference, Columbus, OH, June 2017.
- Riley, D. [panelist] Telling it Like it Was: Pioneers in Engineering Ethics Education. APPE Annual Meeting, Dallas, TX, February 2017.
- Riley, D. Yes We Can! Assessing the Threatened ABET Outcomes. Special Session, Education Research and Methods Division, ASEE Annual Conference, 2016.
- Riley, D. Engineering for Everyone at Smith College. Workshop on Engineering and Liberal Education, ASEE Annual Conference, 2016.
- Riley, D., Nieuwsma, D., Grunert, J., Jalali, Y., Adams, S.G., and Doolittle, P. Citizen Engineering: Approaching Engineering Literacy and Liberal Education. Workshop on Engineering and Liberal Education, ASEE Annual Conference, 2016.
- Farrell, S.. and Riley, D.. Action on Diversity: Safe Zone Ally Training. ASEE Annual Conference, 2016.
- Riley, D. (2016) [panelist] Are Engineers Authoritarian? The Terrorist Challenge for Engineering Education. Alan Cheville, Moderator. ASEE Annual Conference, 2016.
- Riley, D. Why Deny? The Willful Ignorance of Gender-Based Violence in STEM. Gender, Bodies, and Technology, April, 2016.
- Katz, A., Riley, D., and Lambrinidou, Y. Shadow Codes of Engineering Ethics: An Experiment in Ethics Imaginaries. Association for Practical and Professional Ethics Annual Meeting, Reston, VA. February 19, 2016.
- Lambrinidou, Y. and Riley, D. Engineers in the Public Interest: Histories, Models, and Future Directions. Association for Practical and Professional Ethics Annual Meeting, Reston, VA. February 19, 2016.

- ASEE [invited panel]. Peace, Conflict and Sustainability: Addressing Global and Ethical Issues in Engineering Education. American Society of Engineering Education National Conference, Seattle, WA, June 2015.
- Riley, D. Ends and Means Revisited: Grand Challenges Scholars Program. Panelist, Broadening the Conversation on the Grand Challenges: Addressing the Contextual Dimensions of Technological Innovation, American Society of Engineering Education National Conference, Indianapolis, IN, June 15-18, 2014
- Riley, D. Panel: What is ESJP? 9th Conference on Engineering, Social Justice, and Peace. Troy, NY, August 13-16, 2013.
- Riley, D. Panelist, with J. Barton, G. Gibson, A. Hickam, and J. Loftus. Careers in Engineering. Out to Innovate, Oct. 13-14, 2012.
- Riley, D. Panelist (with Jim Corbett) discussing Sarah Pfatteicher's Lessons Amid the Rubble: An Introduction to Post-Disaster Engineering Ethics (Johns Hopkins, 2010). Association of Practical and Professional Ethics Annual Meeting, March 3-5, 2011, Cincinnati, OH.
- Riley, D. Panelist (with Evelyn Hammonds and Jonson Miller) discussing Amy Slaton's Race, Rigor and Selectivity in US Engineering: The History of an Occupational Color Line (Harvard, 2010). History of Education Society Annual Meeting, Boston, November 2010.
- Riley, D. Panelist, The Evolving Instruction of Thermodynamics? Patrick Tebbe, Moderator. Energy Conversion and Conservation Division, ASEE. June 27, 2007, Honolulu, HI.

US Universities

- Riley, D. University of Nebraska. Marginalia. Distinguished Speaker, National Women's History Month, March 9, 2022. [remote]
- Riley, D. Carnegie Mellon University. My Heart is in the Work. CMU Engineering Ideas Forum, March 1, 2022. [remote]
- Riley, D. Colorado State University. Liberating Learning: Social Justice in the Engineering Curriculum. September 23, 2021. [remote]
- Riley, D. Iowa State University, (dis)Credit: Erasure and Scrutiny of Women in STEM. ADVANCE Joining Forces Network, October 29, 2020.
- Riley, D. Educating the Engineer in 2020. Texas A&M University, October 9, 2020.
- Riley, D. Social Justice and Engineering. Penn State University, August, 2020.
- Riley, D., Alumni Panel, Engineering and Public Policy, Carnegie Mellon University, July 27, 2020.
- Riley, D. "Show Up and Disrupt: Challenging Cultures of Oppression in Engineering Education," Engineering Education and Women's Studies Seminar, The Ohio State University, April 10, 2020 [via zoom]
- Riley, D. "Do Engineers Have Principles? Public Values in Professional Practice. Drexel University College of Engineering, February 11, 2020.
- Riley, D. "Engineering Principles: Showing Up for Public and Professional Values." Miami University of Ohio, Scholar in Residence Lecture. September 26, 2019.
- Riley, D. "Infusing Social Justice and STEM in Pedagogy and Curricula." Worcester Polytechnic Institute, April 4, 2019.
- Riley, D. "Research in Engineering Education." Worcester Polytechnic Institute, April 5, 2019.
- Riley, D. "The Root and the STEM: Borrowing Tools to Cultivate New Understandings of Power, Knowledge, & Justice." Chancellor's Dialogue on Diversity and Interdisciplinarity, University of California, Merced, September 13, 2018.
- Riley, D. "Infusing Social Justice in Engineering Pedagogy and Curricula." University of San Diego, April 26, 2018.
- Riley, D. "Social Justice and the Academies." University of San Diego, April 26, 2018,
- Riley, D. Engineering and (Neo-)liberal Education in the new Accreditation Regime. Oregon State University, May 2017.

- Riley, D. What Would Justice Demand? Re-Imagining Diversity in STEM. Montana State University, March 7, 2017.
- Riley, D. Engaged Pedagogies for Inclusive Classrooms. South Dakota School of Mines and Technology, March 1, 2017.
- Riley, D. Developing Classroom Learning Communities and Incorporating Reflective Practices. South Dakota School of Mines and Technology, March 1, 2017.
- Riley, D. Losing ABET: High Stakes Gambling with the Engineering Profession. STS Colloquium, Rensselaer Polytechnic Institute, October 12, 2016.
- Riley, D. LeChatelier and Warhol: Queering the conventional career trajectory in engineering. Johns Hopkins University, June 26, 2015.
- Riley, D. LeChatelier and Warhol: Queering the conventional career trajectory in engineering. California Institute of Technology, April 30, 2015.
- Riley, D. Unspeakable: Denial of Gender-Based Violence in STEM. University of Virginia, April 6, 2015.
- Riley, D. Persisting and Resisting: Science for the People's Legacy for Feminist Engagement with Science. Science for the People: 1970 and Today. University of Massachusetts. April 13, 2014.
- Riley, D. Building from "Inclusivity Isn't an Issue in My Class" to "What's An Ally To Do?" Guest Keynote, Bridgewater State University, Bridgewater, MA, April 11, 2014.
- Riley, D. Politics of Transformation in the Engineering Core, Clemson University, March 7, 2014.
- Riley, D. Problematizing Rigor. Bucknell University, February 28, 2014. Riley, D. Power Systems: Energy and Justice in Engineering Thermodynamics. Lafayette College, March 7, 2013.
- Riley, D. Power Systems: Energy and Justice in Engineering Thermodynamics. Lafayette College, March 7, 2013.
- Riley, D. Energy and Justice: Making the Connections in Engineering Thermodynamics. University of Massachusetts, Department of Civil Engineering, November 16, 2012.
- Riley, D. Race, Gender, and Science in the Classroom: An Interdisciplinary Workshop. Five College Feminist Science and Technology Studies Initiative, February 7, 2012.
- Riley, D. LeChatelier's Principle: The Conventional Career Trajectory of a Non-conventional Engineer. Harvard University, February 3, 2012.
- Riley, D. Politics of Thermodynamics: Reimagining the Engineering Textbook. Departments of Science and Technology Studies and Engineering Education, Virginia Tech. September 23, 2011.
- Riley, D. (2011). Innovation for a Crowded Curriculum: A Textbook Companion for Thermodynamics. Department of Chemical Engineering, University of Rhode Island, April 21, 2011.
- Riley, D. (2011). Engineering, Cognition, and the World. Nicole Dudukovic and Harry Blaise, discussants. Trinity College, February 22, 2011.
- Riley, D. Stepping outside the engineering mind. Purdue Engineer of 2020 workshop, September 22, 2009.
- Riley, D. Energy for the 21st Century: A thermodynamics textbook companion. School of Engineering Education, Purdue University, September 17, 2009.
- Riley, D. The Power of Resistance in Liberative Pedagogies. Purdue University, Department of Engineering Education, April 17, 2008.
- Riley, D. "Revolutionizing a Profession: Engineering Education as Liberation." Worcester Polytechnic Institute, March 30, 2005.
- Riley, D. "Exposure Assessment for Cultural Uses of Mercury in Latino and Caribbean Communities." Department of Civil and Environmental Engineering, Clarkson University, April 2, 2004.
- Riley, D. "Mercury, Mothballs, and Methylene Chloride: Modeling exposure and risk reduction options for household toxins" Grinnell College Physics Lecture. October 2, 2003.
- Riley, D. "Liberating Learning in the Sciences and Engineering: Lessons from feminist and radical pedagogies." Grinnell College Physics and Grinnell Women in Science Lecture. October 2, 2003.
- Riley, D. "Cleaner, Greener: Engineers Improve the Environment." Sally Ride Science Festival for Girls, Massachusetts Institute of Technology, September 2002.

Non-US Universities

- Riley, D. “Feminist Frameworks for Engineering & Engineering Ethics.” University of Strathclyde, December 7, 2021.
- Riley, D. “Engineering Leadership for Addressing Power, Privilege, and Injustice.” University of Toronto, Canada, January 23, 2019.
- Riley, D. Education for Social Justice in the Sciences and Engineering. Master Class, Institute for Advanced Studies, University of Western Australia. May 10, 2012
- Riley, D. Power Systems and Systems of Power: Connecting energy and justice in thermodynamics. Faculty Academy for the Scholarship of Education, University of Western Australia, May 8, 2012.
- Riley, D. The Role of Reflection and Praxis in Transformative Engineering Education, Queens University, Tuesday, January 23, 2007.
- Armstrong, E. and Riley, D. Course Collaborations between Women’s Studies and Engineering. MIDS, Chennai, India. February 7, 2006.

NSF Awardees Meetings

- Riley, D., Karlin, J., and Quiles-Ramos, S. Building Social Infrastructure for Achieving Change at Scale Poster presentation at NSF Principal Investigators Meeting, Arlington, VA, October 30, 2017.
- Riley, D., Andrews, C., Gonzalez, I., Nadeau, A., and Dell-Orso, H. E-Book Dissemination of Curricular and Pedagogical Innovations in Engineering Thermodynamics. Poster presentation at NSF Principal Investigators Meeting, Arlington, VA March 4-6, 2012.
- Riley, D., Long, R., and Pimmel, R. NSF’s New Data Management Plan. NSF Awardees Meeting, Reston VA, March 13-15, 2011.
- Riley, D., Andrews, C., and Gonzalez, I. E-Book Dissemination of Curricular and Pedagogical Innovations in Engineering Thermodynamics. Poster presentation at NSF Principal Investigators Meeting, Reston, VA March 13-15, 2011.
- Riley, D., Jaffee, E., and Claris, L. Liberative Pedagogies in Engineering Education. Poster presentation at NSF Principal Investigators Meeting, Reston, VA January 31, 2010.

Invited Webinars

- Pawley, A. and Riley, D. WEPAN Webinar on Targeted Harassment of Engineering Educators, September 24, 2019.
- Riley, D., Panelist for *Journal of Learning Sciences* Webinar, “Why Ideology Matters for Learning: A Case of Ideological Convergence in an Engineering Ethics Classroom Discussion on Drone Warfare,” July 13, 2018.
- Riley, D. International Federation of Engineering Societies (IFEES) and Global Engineering Dean’s Council (GEDC) Webinar on Engineering Ethics, September 4, 2018.

Purdue University

- Riley, D. and Jesiek, B. What, So What, Now What?: Engineering, Ethics, and Development. Workshop at Innovation for International Development (I²D) Exposition, March 29, 2019.

Virginia Tech

- Riley, D. Denial of Gender-based Violence in Academic STEM. Science, Technology and Society Seminar, February 24, 2016.

Smith College

- Riley, D. Microaggressions. Remarks to the All College Meeting in response to racist, classist, xenophobic and homophobic acts on campus. April 18, 2012.

- Riley, D. Engineering and Water Privatization. Talk sponsored by Global Action Against Poverty Everywhere (GAAPE), Smith College, April 11, 2012.
- Riley, D. Mercury as an Indoor Air Pollutant. Lecture Series on Mercury, the Environment, and Public Health, March 30, 2012.
- Panelist, Race, Research, and Ethics: An Open Forum. Otelia Cromwell Day panel with Susan Levin and Eeva Sointu, moderated by Andrea Stone. November 10, 2011.
- Panelist on academic career paths and women's education in science and engineering, Lamplighters meeting, Smith College, June 25, 2011.
- Panelist (with Paul Newlin and Diana Connett). Global Climate Change. Sponsored by MassPIRG, Smith College, March 29, 2007.
- Panelist (with Steve Tilly, Rob Dorit, and Jeff Ramsey), Science, Non-Science, and the Debate over Evolutionary Theory and Intelligent Design. Smith College, November 1, 2005.
- Riley, D. The Environment and the Election. October 7, 2004. First-year Advising Dinner.
- Panelist. Ethics Workshop. Society of Women Engineers, Spring 2004.
- Featured Faculty, Hot Seat. Campus-wide Ethics Discussion, Spring 2004.
- Riley D. "Mercury Use in Spiritual and Folk Traditions." Sigma Xi Lunch, Smith College, March 5, 2002.

Other Invited Lectures

- Riley, D. Framing Engineering Problems for the Long Now. Engineering for Long Term Solutions: The Challenge of Our Times. The Maintainers and Long Now Boston, June 6, 2022. [remote]
- Riley, D. Keynote, Wikipedia Edit-a-Thon for LGBTQ+ Representation in STEM, October 11, 2021.
- Riley, D. Commencement Address, Westridge School for Girls, Pasadena, CA, June 5, 2009.
- Riley, D. Engineering at Smith. Zonta Club International, Springfield Chapter. January 16, 2006. Interview with WWLP-22 Springfield (NBC) news about women in engineering.
- Riley, D. "Evolution and Religious Controversy." Workshop led at the National Network of Presbyterian College Women Conference, August, 2002.
- Riley, D. "Environmental Engineering as vocation and avocation." Panelist at the National Network of Presbyterian College Women Conference, August 2002.
- Riley, D. "Assessing Exposure from Cultural and Religious Mercury Use." 2002 Northeast States for Coordinated Air Use Management (NESCAUM) Mercury Conference, Kennebunkport, ME, June 11-13, 2002.

PROFESSIONAL WORKSHOPS

- Riley D. Research Ethics 101. ASPIRE REU Workshop. June 9, 2021. [online]
- Riley, D. Organizing for Change. ENGagED REU Workshop. June 17, 2021 [online].
- Riley, D. and Rivera-Jimenez, S. Workshop: Social Justice and Chemical Engineering. American Institute of Chemical Engineers Annual Meeting. Boston, November 7, 2021. [remote]
- Foster, E. and Riley, D. The Coffee Care Collective: Visioning Engineering Studies as it Could Be Otherwise International Network for Engineering Studies. "Living in a Crisis Moment" June 28-20, 2021 [online].
- Kellam, N., Svihla, V., Riley, D., Pawley, A., and Cross, K. Workshop : Using power, privilege, and intersectionality as lenses to understand our experiences and begin to disrupt and dismantle oppressive structures within academia. 2020 ASEE Annual Conference & Exposition, Montreal, Canada (moved online due to COVID).
- Adams, R., Case, J., Fentiman, A., Kellam, N., London, J., McKenna, A., Riley, D., and Smith, K. Documenting the Impact of Engineering Education Research and Innovation. ASEE Annual Conference and Exposition. Tampa, FL, June 2019.

- Martin, J., Lee, W., Stefl, S. K. and Riley, D. Workshop: Society's "Macro-narratives" About Diversity in Engineering: A Critical Dialogue. WEPAN 2016 Change Leader Forum, June 13, 2016, Broomfield, CO.
- Riley, D. Research *About* the LGBTQ+ STEM Community. Out to Innovate, Atlanta, GA, November 7-9, 2014.
- Yovandich, J., Nishimura, M., and Riley, D. The Process of Obtaining Funding from the Federal Government. Out to Innovate, Atlanta, GA, November 7-9, 2014.
- Riley, D. Innovation for a Crowded Curriculum: Learning Modules for Tomorrow's Energy Engineers. Frontiers in Education, Rapid City, SD, October 2011.
- Pawley, A.L., Riley, D. What should a Course Reader on Gender and Engineering Include? An Unconference Discussion. Special session in an unconference format, Frontiers in Education, Washington, DC, October 2010.
- Pawley, A.L., Riley, D., Lord, S.M., and Harding, T. Workshop: Feminist Engineering Education: Building a community of practice. Frontiers in Education Conference, San Antonio, TX, October 2009.
- Pawley, A.L., Riley, D., Harding, T. Lord, S.M., and Finelli, C.J. Special session: From active learning to liberative pedagogies: Alternative teaching philosophies in CSET education. Frontiers in Education Conference, San Antonio, TX, October 2009.
- Catalano, G.D., Baillie, C., Byrne, C., Nieusma, D., and Riley, D., Increasing Awareness of Issues of Poverty, Environmental Degradation and War within the Engineering Classroom: A Course Modules Approach, Frontiers in Education Conference, 2008.
- Tucker, J., Pawley, A., Riley, D., and Catalano, G. New engineering stories: How feminist thinking can impact engineering ethics and practice. Frontiers in Education Conference, 2008.
- Riley, D., Claris, L., Ngambeki, I., Richards, G. and Wilson, L. Learning as the practice of freedom: Liberative Pedagogies in your engineering classroom. ASEE Annual Conference, June 22-25, Pittsburgh, PA (2008).
- Riley, D. Pedagogies of Liberation for Inclusive Science: Theory and Praxis. Inclusive Science: Articulating theory, practice, and action. College of St. Catherine, June 15-18, 2008.
- Riley, D.M., Catalano, G.D., Pawley, A. and Tucker, J. Special Session: Re-Imagining Engineering Education: Feminist visions for transforming the field. Frontiers in Education Conference Proceedings, October 10-13, Milwaukee, WI (2007).
- Riley, D. and Haralampides, K. Workshop on Ursula Franklin's work on gender, engineering, technology, and society. Engineering, Social Justice and Peace Conference, April 28, 2007, Binghamton, New York.
- Catalano, G.D, Baillie, C., Impagliazzo, J., Bailey, M. and Riley, D. Not many women in engineering – So why should I care? Bridging gender gaps and stereotypes. Special Session in workshop format, Frontiers in Education, October 28-31, 2006.
- Riley, D. and Claris, L. Assessing Capacity for Lifelong Learning. Best Assessment Processes VIII, Rose Hulman Institute of Technology and Accreditation Board on Engineering and Technology, Terre Haute, IN, February 2006.
- Waller, A., Riley, D., Eschenbach, E., and Lord, S. Classroom Border Crossings: Incorporating feminist and liberative pedagogies in your CSET classroom. Workshop, Frontiers in Education, October 28-31, 2006.

VOLUNTEERED PRESENTATIONS

International Conferences

- Baillie, C., Arif, S., Haralampides, K. McComb, C., and Riley, D. Building an ESJP Movement: From conferences and networks to action and transformation. Engineering, Social Justice and Peace Conference, Bogota, Colombia, June 10, 2021. [remote]

- Riley, D. and Nieuwsma, D. (2016) ESJP Conversation on Engineering Education and Terrorism. Engineering, Social Justice, and Peace, Copenhagen, Denmark, August 10-12, 2016.
- Riley, D. and Nieuwsma, D. (2016) Ideologies of Engineering and Liberal Education. Engineering, Social Justice, and Peace, Copenhagen, Denmark, August 10-12, 2016.
- Riley, D. and Katz, A. (2015) Educating for a Revolution: Discerning the Highlander Idea and its Lessons for ESJP's Work. Engineering, Social Justice, and Peace, Mayaguez, Puerto Rico, September 3-5, 2015.
- Canney, N., Lambrinidou, Y, and Riley, D. (2014) Serving the public or the power elite? Narrow conceptions of 'service' and 'society' in engineering. Engineering, Social Justice, and Peace, Buenos Aires, Argentina, August 17-19, 2014.
- Riley, D. Engineering and Social Justice. Panelist in session moderated by Caroline Baillie on books in the Morgan and Claypool series on Engineers, Technology, and Society. Society for Social Studies of Science (4S)/ESOCITE Conference, Buenos Aires, Argentina, August 20-23, 2014.
- Riley, D. and Haralampides, K. Toward a critical praxis for engineering, social justice, and peace. Engineering, Social Justice, and Peace conference, London, August 2010.

National Conferences

- Sims, K.M., Allen, B., Santiago, I, Riley, D., and Clawson, R. Mentoring in a Large Multi-Institution Research Center Focused on Convergent Research. Southern Political Science Association Annual Conference, San Antonio, TX, January 13-15, 2022.
- Appelhans, S., Akera, A., DePree, T., Fatehiboroujeni, S., Cheville, A., Karlin, J., Burgos-Mirabal, R., and Riley, D. Why we teach: contemporary reasons for choosing engineering education as a career. Society for Social Studies of Science (4S), Toronto, October 6-9, 2021.
- Akera, A., Appelhans, S., Burgos-Mirabal, R., Cheville, A., DePree, T., Fatehiboroujeni, S., Karlin, J. and Riley, D. ABET's Maverick Evaluators and the Limits of Accreditation as a Mode of Governance in Engineering Education. Consortium for History of Science, Technology, and Medicine Engineering Studies Working Group. May 21, 2021. [remote]
- Akera, A., DePree, T., Appelhans, S., Cheville, A., Fatehiboroujeni, S., Karlin, J. and Riley, D. Distributed Governance of Engineering Education in the United States: Making Sense of Engineering Education Out of Control. Presentation, Society for Social Studies of Science (4S), New Orleans, LA, September 2019.
- Cheville, A., Akera, A., Karlin, J., De Pree, T., Appelhans, S., Riley, D., Fatehiboroujeni, S. What Impacts Uptake of Innovations in Engineering Education? Presentation, Society for Social Studies of Science (4S), New Orleans, LA, September 2019.
- Appelhans, S., Fatehiboroujeni, S., Akera, A., Cheville, A., DePree, T., Karlin, J. and Riley, D. Storytelling for Change: Leveraging the Symbolic Power of Institutional Histories in Engineering Education. Presentation, Society for Social Studies of Science (4S), New Orleans, LA, September 2019.
- Adams, R., Case, J., Fentiman, A., Kellam, N., London, J., McKenna, A., Riley, D., and Smith, K. EER&I Networking Session: Connecting and Expanding the Engineering Education Research & Innovation (EER&I) Communities. ASEE Annual Conference and Exposition. Tampa, FL, June 2019.
- Masters, A., McNair, L., and Riley, D. MAKER: Identifying Practices of Inclusion in Maker and Hacker Spaces with Diverse Participation. Poster Presentation, ASEE Annual Conference and Exposition, Salt Lake City, UT, 2018.
- Riley, D. Research and Publishing in ESJP. January 26, 2018. ESJP-13, University of San Diego.
- Riley, D., McNair, E. D., & Masters, A. An Ethnography of Maker and Hacker Spaces Achieving Diverse Participation. Poster Presentation. ASEE Annual Conference and Exposition, Columbus, OH, 2017.
- Riley, D., Karlin, J., Pratt, J., and Matos, S. Building Social Infrastructure for Achieving Change at Scale. Poster Presentation. ASEE Annual Conference and Exposition, Columbus, OH, 2017.
- Riley, D. Critical Point: A Phase Change for Engineering and Liberal Education. 4S, 2015.

- Riley, D. and Nieuwsma, D. Making and Doing: The International Network of Engineering, Social Justice, and Peace. 4S, 2015.
- Riley, D. Sovereign Selves, Sovereign Knowledge. Society for the History of Technology, Albuquerque, NM, October 8-11, 2015.
- Riley, D., Henry, V., and Leighton, L. (2014) Modules for Liberal Education in Engineering Thermodynamics. Symposium on Engineering and Liberal Education, Union College, June 6-7, Schenectady, NY.
- Riley, D. (2014). Persisting and Resisting: Science for the People's Legacy for Feminist Engagement with Science. Science for the People: 1970 and Today. University of Massachusetts. April 13.
- Guswa, A., Armstrong, E., Barresi, M., Leone, A., McCune, C., Riley, D., Sayre, S., and Spelman, E. (2011). A Case for Integration: The Deepwater Horizon Oil Spill. Association of Environmental Science and Studies, June 23-26, 2011. Conference Presentation
- Riley, D., Pawley, A.L., Mettler-Grove, S., and Waugh, H. Building and Breaking: The Dual Degree Engineering Program at Smith College, 1975-1992. Berkshire Conference of Women Historians Poster Session. June 10, 2011.
- Guswa, A., Armstrong, E., Barresi, M., Leone, A., McCune, C., Riley, D., Sayre, S., and Spelman, E. (2011). A Case for Integration: The Deepwater Horizon Oil Spill. Union College Symposium on Engineering and Liberal Education, June 3-4, 2011. Poster presentation.
- Riley, D. Identities Schmidentities: Promises and limitations of identity as a lens of analysis for interview data from the Liberative Pedagogies Project. Engineering Identities: Deepening Theoretical Perspectives, International Network for Engineering Studies workshop, July 23-24, 2009, Troy, NY.
- Riley, D. and Pawley, A.L., Moderators. Engineering gender: an unconference roundtable on developing a reader situated in the intersection of engineering, technology and women's studies. National Women's Studies Association Conference, Atlanta, GA, November 2009.
- Riley, D. Integration through Collaboration: Models for Multi- and Inter- Disciplinary Work. Symposium on Engineering and Liberal Education, Union College, May 9-10, 2008.
- Riley, D., Thomas, V., Neckel, W., & Wagner, S. "Information Technology and Product Lifecycle Management," IEEE International Symposium on Electronics and the Environment, Danvers, MA, May 1999.
- Riley, D., Fischhoff, B., Small, M., & Fischbeck, P. "Evaluating the Effectiveness of Risk-Reduction Strategies for Chemical Consumer Products," Association for Public Policy and Management (APPAM) Conference, New York, NY, October, 1998.
- Riley, D., Small, M., & Fischhoff, B. "Characterization of Methylene Chloride Exposure During Home Paint Stripper Use," International Society for Exposure Analysis poster presentation, ISEA Annual Meeting, November 1997.
- Kovacs, D., Riley, D., Small, M., & Fischhoff, B. "Can Consumers Manage the Risks of Domestic Chemicals on Their Own?" Association for Public Policy and Management (APPAM) Conference, November 1997. [presenter]

TEACHING AND ADVISING

COURSES TAUGHT

Purdue University (2019-)

- Engineering Ethics in Interdisciplinary Contexts (co-taught early spring 2022)
- Engineering and Climate Change (Fall 2021)
- Engineering and Climate Change (Fall 2019) (with A. Pawley and B. Jesiek)
- Foundations of Engineering Education (Fall 2019)
- Foundations of Engineering Education (online – Fall 2019)

Virginia Tech (2015-2017)

- Citizen Engineering (fall 2015)
- Graduate Seminar (spring 2016)

Smith College (2001-2012)

- Engineering Thermodynamics (12)
- Mass and Energy Balances (6)
- Mass and Heat Transfer (4)
- Engineering for Everyone: An Introduction to Engineering (2)
- Engineering and Global Development (6)
- Science, Technology, and Ethics (4)
- Engineering and Public Policy (1)
- Engineering, the Environment, and Sustainability (1)
- Technological Risk Assessment and Communication (1)
- Engineering Design Clinic Faculty Coach (coached 2 teams year-long)
- Physicochemical Processes in the Atmosphere (prepared)
- Pesticide Use and its Impacts (prepared)

Princeton University (1998-2000)

- Environmental Science and Policy: Climate, Air, Toxics and Biodiversity (Preceptor)
- Science, Technology, and Public Policy (Preceptor)
- Research Ethics and Scientific Integrity (Co-Instructor with Helen Nissenbaum),

Carnegie Mellon University (1994-1998)

- Undergraduate Research Ethics (Co-Instructor, fall 1996 – spring 1998)
- The Automobile: Technical and Policy Issues (Teaching Assistant, spring 1997)
- The Computer: Technical and Policy Issues (Teaching Assistant, spring 1996)
- Pittsburgh's Urban Forest (Project Manager, fall 1994)

DISSERTATIONS/THESES ADVISED

Chair or co-chair (4)

- M.S. Memoria Matters (With Carla Zoltowski, co-Advisor), non-thesis, expected 2022.
- Ph.D., Andrew Katz, NSF Graduate Research Fellow. Topic: Engineering Ethics Education. May 2019. (Dr. Katz is Assistant Professor, Engineering Education, Virginia Tech).
- B.S., Ida Ngambeki, '07. An exploration of choice, learning, and the formation of professional identity in engineering students. (Dr. Ngambeki received her Ph.D. from Purdue in Engineering Education in 2012 and is now Assistant Professor of Computer and Information Technology at Purdue.)
- B.A., Heidi Waugh '12. Gendered Boundaries in Engineering: The Dual Degree Program at Smith College, 1975-1992. Program for the Study of Women and Gender. (This thesis received the Flexner Prize for archival research and the Jeanne McFarland Prize for excellent work in the Study of Women and Gender). Ms. Waugh went on to Western New England Law School.

Committee Member (13)

- Ph.D., Herman Clements (Alison Godwin, Chair) TBD.
- Ph.D., Theo Sorg (Alice Pawley, Chair) TBD.
- M.A., Stephanie Matos (Toni Calasanti, Chair), NSF Graduate Research Fellow, expected fall 2022.

- Ph.D., Joseph Valle (Jeff Sakamoto, Chair). Abolitionist Engineering: An Autoethnographic Approach to Understanding How Abolition Can Transform Materials Science and Engineering. Materials Engineering, University of Michigan, 2022
- Ph.D., Bono Shih (Gary Downey, Chair). Engineering as Technology of Technology and the Subjugated Practice. Science, Technology, and Society, Virginia Tech, 2022.
- Ph.D. Aditya Anupam. Situating at a Distance: Problems and Possibilities for Teaching Reflexivity through Digital Games. Digital Media, Georgia Tech (Dr. Nassim Parvin, Chair), 2021.
- Ph.D., Martina Svyantek (Lisa McNair, Chair) Institutional Counter-surveillance using a Critical Disability Studies Lens, Interdisciplinary Ph.D., Virginia Tech, May 2021.
- Ph.D., Marie Stettler Kleine (Matt Wisnioski, Chair), Proselytizing Problem-Solving: The Religious and Secular Values of Engineering for Good, Science, Technology, and Society, Virginia Tech, 2020.
- Ph.D., Andrea Ogilvie, Department of Engineering Education, Virginia Tech. 2017. Understanding Transfer Student Pathways to Engineering Degrees: A Multi-Institutional Study Based in Texas.
- Ph.D., Xiaofeng Tang, Department of Science and Technology Studies, Rensselaer. Engineering Knowledge and Student Development: An Institutional and Pedagogical Critique of Engineering Education. 2014.
- Ph.D., Shannon Bryant, Department of Education, University of Massachusetts. "It's nothing personal": Competing Discourses for Girls and Women in Mathematics. 2010.
- Ph.D., Gary Garetano, An evaluation of potential exposure to mercury in a community where elemental mercury is used for cultural practices. School of Public Health, University of Medicine and Dentistry of New Jersey. 2006.
- B.S., Elisabeth Wolfe '10, Environmental Science and Policy, Smith College. Operational history of food at Smith College.

External Examiner (1)

- Ph.D., Craig Watterson, Victoria University of Wellington, New Zealand

OTHER INDEPENDENT WORK ADVISED

Engineering Education Explorer's Projects (1 project, 2 students)

- Ph.D., Nafissa Maiga and Caroline Camfield. Longitudinal Research Design for the ASPIRE Engineering Research Center. 2021-.

Capstone Design Clinic Coach (2 projects, 7 students)

- B.S., Leah Flake '11, Amna Sarfraz '11 and Caitlin Spence '11. System Designed to Integrate Earth Science Data and Forestry Models for Improved Ecosystem and Carbon Management.
- B.S., Katherine MacKenzie '11, Courtney Murphy '11, Sarah Pedicini '11 and Salomé Stulberg '11. Design and Development of a Submersible, Autonomous, Rn-222 Survey System. 2011

Special Studies and other upper-level Independent Projects Advised (8 projects, 19 students)

- Quigley Fellow Advisor, Emily Rider-Longmaid '13J. Feminist Engineering Ethics: the Prison Industrial Complex.
- Quigley Fellow/Special Studies Advisor, Heidi Waugh '12 and Sophie Mettler Grove '13. Gendered boundaries in the discipline of engineering.
- Special studies Advisor, 2010, Sancho Wilson '10. Blacksmithing.
- Special studies Advisor, 2009. Olivia Cummings '09, Lynnea Domienik '09 and Kalen Wheeler '10, Negotiating Red and Green: How the Labor and Environmental Movements Can Work Together. Celebrating Collaborations, April 18, 2009.

- Special studies Advisor, 2008. Margaret Kulkarni '10, Elisabeth Wolfe '10, Najia Ahmed '09, Rosalie Ray '10 and Jessica Wilbarger '08. Putting on a Smaller Shoe: Concrete Solutions for Reducing Smith's Carbon Footprint. Presented at Celebrating Collaborations, 2008.
- Special studies Advisor, 2008. Claire Denton-Spalding '10, Lauren Keller '09, Erica Kibbe '09, Rosalie Ray '10 and Marice Uy '09. Designing for Economic Empowerment: Product Development in Esteli, Nicaragua (with Susannah Howe and Nola Reinhardt). Presented at Celebrating Collaborations, 2008.
- Special Studies, Katherine Pratt '05, Human Factors Engineering, fall 2004.
- Special Studies, Effrosyni Seitaridou '02J, Environmental Engineering, fall 2001.

MENTORING

Postdoctoral Researchers

- Soheil Fatehiboroujeni, Purdue University, 2018-2020. Colorado State University.
- Ellen Foster, Purdue University, 2018-2021. Dirt Palace feminist arts collective, Providence, RI
- Lisa McLoughlin, Five College Women's Studies Fellow, 2003-2004. Co-chair, Engineering, Greenfield Community College.
- Dorothy Jones-Davis, Laurie Stepanek, Brooke Coley, Ekaette Mbong Victoria Hill, Daphney Jean (AAAS Fellows at NSF)

Graduate students at other institutions (2)

- Corin Bowen and Joseph Valle, University of Michigan. Project Mentor, Strike as Pedagogy [working title]. Research Design, Data collection/analysis methodology, and theory-building at the intersection of labor movements, engineering education, and social justice. 2020-2021.
- Kyle Trenshaw, University of Illinois. ASEE Mentor.
- Jens Kabo, Queens University. Jens was a participant observer in my ethics course for a semester and I mentored him though not officially on his dissertation committee. Caroline Baillie, advisor. We are collaborating on a paper from his dissertation.

Post-Masters Researchers (2)

- Lionel Claris, Research Associate on Liberative Pedagogies Project, 2005-2010. ABD for Ph.D. in Philosophy from European Graduate School, expected 2021.
- Eleanor Jaffee, Research Associate on Liberative Pedagogies Project, 2010-2011. Received Ph.D. in Social Work from SUNY Albany in 2012.

Undergraduate Researchers (5 projects, 38 students)

- ASPIRE Engineering Research Center; Climate Justice in First-Year Engineering: Tyler Morgan
- Liberative Pedagogies Project (16): Adriana Rua, Erika Mancha, Nathalie Flores, Najia Ahmed, Ida Ngambeki, Alexandra Gorin, Lillian Wilson, Geraldine Richards, Nora Paul-Schultz, Cora Olson, Modupe Adegoke, Vilma Reyes, Liora Goldensher, Ilda Dule, Catherine Betances, Jennifer Cowie
- Engineering Thermodynamics Education Project (9): Lindsay Holle, Alexandra Gorin, Victoria Henry, Amanda Nadeau, Haley Dell'Orso, Iris Gonzales, Chelsea Andrews, Lucia Leighton, Alice Huang
- Risk, Human Factors, and Industrial Ecology (9): Jessie McCartney, Jessica Siquiera, Rachel Rubenstein, Lorena Passi, Lauren Ingegneri, Rachel Germansky, Danielle Pite, Sarah Pedicini, Jinjin Lu
- Gender and Engineering (3): Heidi Waugh, Sophie Mettler-Grove, Emily Rider-Longmaid

Other Mentoring Activities

- Advisor, PERT Mentoring – NSF-funded Proposal Review Training program – met with mentees over 3 months and conducted mock review panel across three NSF programs, spring 2022.
- Mentor, NSF CAREER, David Delaine, Ohio State University [funded 2022]

GUEST LECTURES/PRESENTATIONS TO STUDENTS

- Fall 2021 Meet the Faculty. ENGR 180: Orientation Seminar for Multiethnic Students in Engineering (Derrick Williams-Bacon)
- Fall 2021 Critical Research Approaches in Engineering Education, Foundations of Engineering Education (Kirsten Davis)
- Fall 2021 Taking Stock: Appreciating the state of the school of engineering education (State of the School). ENE Graduate Seminar
- Fall 2020, Engineering Academic Career Club, Purdue University, How to Write an Effective Diversity Statement.
- Fall 2020, Engineering Studies Capstone, Lafayette College, September 8, 2020.
- Fall 2020, State of the School: Educating the Engineer in 2020, ENE Graduate Seminar
- Fall 2020, Responsible Conduct of Research in Engineering Education, ENE Graduate Seminar
- Fall 2020, Critical Research Approaches in Engineering Education, Foundations of Engineering Education (Kirsten Davis)
- Spring 2020, STS and Engineering Education, in Science, Technology & Society course (Sharra Vostral) (Interrupted by COVID)
- Spring 2020 University of Nevada-Reno, Introduction to Engineering Education (Kelly Cross), March 24, 2020.
- Fall 2019, Critical Pedagogies and Social Justice on Campus, Cross Cultural Science Education Course (Alberto Rodriguez)
- Fall 2019, State of the School, ENE Graduate Seminar
- Fall 2018, Critical Pedagogies Research, Foundations of Engineering Education (Michael Loui).
- Fall 2018, State of the School, ENE Graduate Seminar
- Fall 2017, Critical Pedagogies Research, Foundations of Engineering Education (Michael Loui).
- Fall 2017, State of the School, ENE Graduate Seminar
- Spring 2017, GEDI class, on ABET's proposed changes
- Spring 2017, ENGE Foundations guest lecture, engineering and social justice.
- Spring 2017, Assessment guest lecture on ABET
- Spring 2016, Assessment guest lecture on ABET
- Spring 2016, guest panelist on grant writing in Stephanie Adams's Grants Course
- Fall 2015, GEDI class, on ABET's proposed changes
- Fall 2015, guest lecture on Federal Government perspectives on STEM Workforce in Denise Simmons's class on STEM Workforce Policy
- Fall 2015, Virginia Tech, Graduate Seminar, Engineering and Social Justice
- Fall 2015, Virginia Tech, ENGE Foundations, Change in Engineering Education
- Fall 2014, Washington University. Guest Lecture in Kurt Thoroughman's Engineering for First- and Third-World Health course.
- Spring 2012, Caroline Baillie (University of Western Australia), Engineering Challenges in a Global World
- Spring 2012, Lucy Mule, Multicultural Education.
- Fall 2011, Lynne Yamamoto, Advanced Studio Art
- Summer 2011, Maria Catalina Ramirez (Universidad de los Andes Bogotá), Engineering and Development.
- Spring 2011, Lucy Mule, Multicultural Education.

- Spring 2011, Juan Lucena (Colorado School of Mines), Engineering and Social Justice (taught 2 classes as Hennebach Visiting Professor)
- Spring 2011, Mercedes Rivero Hudec (University of Rhode Island), Chemical Reactor Engineering.
- Fall 2006, Leslie King, Science and Politics of Food, Water, and Energy
- Spring 2006, Joshua Roth (Mount Holyoke), Risk and Public Space
- Fall 2005, Glenn Ellis, Teaching Science, Engineering, and Technology

PROFESSIONAL SERVICE CONTRIBUTIONS

Institutional Advisory Boards

- NAE Guidance Group, Practices for Engineering Education and Research (PEER), 2021-present.
- Academic Program Review External Review Team, University of Florida Engineering Education PhD, 2021 (remote)
- Academic Program Review External Review Team, Engineering Science, Loyola University Chicago (virtual visit, June 2020)
- Academic Program Review External Review Team, Interdisciplinary Engineering, Texas A&M, 2019.
- Engineering Advisory Board Member, University of Texas at El Paso, 2018-
- Engineering Advisory Board Member, Purdue Northwest Engineering. 2017-
- Academic Program Review External Review Team, Rensselaer Polytechnic Institute, Product Design and Innovation Program, Department of Science and Technology Studies/College of Engineering, 2014.
- Advisory Board Member, Center for Engineering, Ethics and Society, National Academy of Engineering, 2011-2013.
- Advisory Board Member, National Academy of Engineering Center for the Advancement of Scholarship on Engineering Education. 2007-2010.

Research Project Advisory Boards

- External Advisory Board Member, Kristen Sanford (Lafayette College), Rodolfo Valdes Vasquez (Colorado State) and Frederick Paige (Virginia Tech). "Expanding The Capacity Of The Center for Infrastructure Transformation and Education Through Integrating Diversity, Equity, and Inclusion into Infrastructure Education" NSF IUSE 2121376, 2121429, 2121436.
- External Advisory Board Member, Lisa McNair (PI), "EAGER-SAI: Developing Effective and Culturally Appropriate Alaskan Housing: Performance metrics for future builds based on interdisciplinary ethnography of past project." NSF SAI 2122130.
- Faculty Scholars Network, ENGagED REU (New Generations of Scholars to Amplify and Grow Engineering Education). 2021-
- External Advisory Board Member, Ayush Gupta, Chandra Turpen, Andrew Elby, David Tomblin. "Supporting Ethical Engineering: The role of immersive engineering subcommunities" NSF EEC 1916929.
- External Advisory Board Member, Tim Wilson, Massood Towhidnejad, James Pembridge, and Erin Bowen, "IUSE/PFE: RED Innovation: Using Scrum to Develop an Agile Department." NSF DUE 1920780.
- Education Advisory Board, NSF Engineering Research Center for Innovative and Strategic Transformation of Alkane Resources (CISTAR), 2019-
- Lead Mentor, CAREER Network for Alison Godwin, "EAGER: Supporting Faculty Early Career Development in Engineering Education Research," NSF EEC 1837808.
- External Advisory Board Member, Idalis Villanueva, "CAREER: Advocating for Engineering through Hidden Curricula: A Multi-Institutional Mixed Method Approach" NSF EEC 1653140, PECASE 2019.
- External Advisory Board Member, Chell Roberts, Ming Huang, Susan Lord, Michelle Camacho and Rick Olson, "IUSE/PFE RED: Developing Changemaking Engineers." NSF EEC 1519453

- External Advisory Board Member, Diana Bairaktarova and Scott Huxtable, “Collaborative Research: vObjects - Understanding their Utility to Enhance Learning of Abstract and Complex Engineering Concepts.” NSF IUSE #1712210.
- External Advisory Board Member, Caitlin Wylie and Michael Gorman, “Learning in Laboratories: Investigating Interactions between Engineering Research Communities and Undergraduate Workers,” NSF RFE #1606868
- External Advisory Board Member, Kathryn Johnson, Barb Moskal, and Jon Leydens, “Research Initiation Grant: Social Justice in Engineering with a Focus on Control Systems” NSF RIGEE # 1441806.
- External Advisory Board Member, Sheryl Burgstahler, Julie Martin, and Amy Slaton, “Who’s Not at the Table: Building Research Capacity for Underserved Communities in Engineering.” NSF Broadening Participation in Engineering #1551402.
- External Advisory Board Member, Monica Cox and Joyce Main, “Why We Persist: An Intersectional Study to Characterize and Examine the Experiences of Women Tenure-Track Faculty in Engineering.” NSF EHR Core Research #153545.
- External Advisory Board Member, Climate Change Educational Partnership, 2012-2013
- External Advisory Board Member, NSF-funded project on Critical Thinking in Engineering, Elliot Douglas, PI, University of Florida, 2012-2013.
- Reference Committee, “Engineering Education for Social and Environmental Justice,” funded by the Australian Learning and Teaching Council. Caroline Baillie, University of Western Australia, Principal Investigator, 2010-2013.

Editorial and Peer Review

- Section Editor, Handbook of Appropriate Technology, Barrett Hazeltine and Kwanwoo Shin, eds. Springer Nature. (<https://www.springer.com/gp/springer-handbooks>), 2020-.
- Editorial Advisory Board, Studies in Engineering Education, 2019-
- Editorial Board, Engineering Studies. 2017-
- National Science Foundation. Peer review panels, Site Visits, Reverse Site Visits, and general proposal reviews, various programs 2001-.
- Search Committee for Editor, Engineering Studies, 2017.
- Deputy Editor, Journal of Engineering Education (2012-2014).
- Associate Editor, Engineering Studies. Routledge Journal. 2008-2017.
- Founding Editorial Team, International Journal of Engineering, Social Justice, and Peace, 2012-2018.
- Editor, Reconstruct, a zine on engineering and social justice, 2007.
- Editorial Board, Handbook of Warnings, Mike Wogalter, ed. Laurence Erlbaum Associates (2006).
- External Promotion and Tenure Reviews (2)
- At-large reviewer for Routledge, Rowman & Littlefield, Environmental Science and Technology, Human Organization, Indoor Air, Risk Analysis, Environmental Engineering Science, (also Guest Editor), Environmental Health Perspectives, Safety Science, Water Environment Research, Journal of Engineering Education, Advances in Engineering Education, International Journal of Engineering Education, Science Education, Journal of Women and Minorities in Science and Engineering, Science and Engineering Ethics, International Journal of Engineering, Social Justice, and Peace, Engineering Studies, Journal of the National Association of Environmental Professionals, Health Services Insights, Journal of Professional Issues in Engineering Education and Practice, Natural Resources Canada/Health Canada’s Short Course on Mercury, American Society for Engineering Education Conference 2006, 2008-2012; Research in Engineering Education Symposium 2009; International Ergonomics Association Meeting, 2006.

Professional Society Leadership

- Co-Chair, ASEE Committee on Scholarly Publications, 2022-.

- LEES Awards Committee, ASEE, 2020.
- Diversity Committee, American Society for Engineering Education, 2015-
- Steering Committee, Engineering, Social Justice, and Peace Network, 2008-2016, 2020-
- Ad Hoc Committee on STEM Inclusion Report Response, ASEE, 2019.
- Special Committee for the ASEE Diversity Recognition Initiative, 2017-2018.
- Committee on Re-invigorating the International Network for Engineering Studies (INES) 2017.
- Ad Hoc Committee on ABET Changes, American Society for Engineering Education, 2015-2017.
- Mentor for Apprentice Faculty Grantees, Education and Research Methods Division, American Society for Engineering Education, 2014 and 2015.
- Awards Committee, Liberal Education Division, American Society for Engineering Education, 2009-2016 (chair, 2009-2010).
- Chair, Nominating Committee, Liberal Education Division, American Society for Engineering Education, 2011-2012.
- Chair, Liberal Education Division, American Society for Engineering Education, 2010-2011.
- Vice Chair, Liberal Education Division, American Society for Engineering Education, 2009-2010.
- Evaluator for Apprentice Faculty Grants, Education and Research Methods Division, American Society for Engineering Education, 2010-2011.
- Program Chair, Liberal Education Division, American Society for Engineering Education, 2008-2009.
- Program Chair-Elect, Liberal Education Division, American Society for Engineering Education, 2007-2008.
- Member, Guidelines Committee, Engineering and Public Policy Division, American Society for Engineering Education. 2005-2006.

Conference Planning and Leadership

- Co-Host, The Big Engineering Education Research Meetup, May 14, 2020.
- #EngineersShowUp Week of Action, organized February 2020 with WEPAN, NAMEPA, ASEE Committee on Diversity, Equity, and Inclusion. Coordinated webinars, Twitter conversations, campus events at over a dozen participating institutions, teach-ins, brownbags, campus actions, and more
- Host, Engineering Education Afternext, July 2018.
- White House Summit on LGBTQ in Tech, Washington, DC, August 23, 2016 (among 200 selected out of over 3500 nominees).
- Planning Committee, Engineering Social Justice and Peace, Mayaguez, Puerto Rico, September 2015.
- Panel Moderator, Engineering, Social Justice, and Peace, Buenos Aires, Argentina, August 17-19, 2014.
- Planning Committee, Science for the People: The 1970s and Today. April 11-13, 2014, University of Massachusetts.
- Panel Organizer, "Women and Science," Science for the People: The 1970s and Today. April 11-13, 2014, University of Massachusetts.
- Panel Organizer, "Accreditation and Outcomes-Based Education," American Society of Engineering Education, 2012.
- Planning Committee, Feminism and Science: Building Bridges for Research and Innovation, Mellon 23-funded workshop, 2011.
- Panel Organizer, "Myths of Gender and Race in Engineering Education," American Society of Engineering Education, 2011.
- Panel Organizer, "Ethics of the Grand Challenges of Engineering," American Society of Engineering Education, 2011.
- Session Chair, Association for Practical and Professional Ethics, Mar 4-6, 2010.
- Steering Committee, Engineering Identities: Deepening Theoretical Perspectives, International Network for Engineering Studies workshop, July 23-24, 2009, Troy, NY.

- Program Chair, Liberal Education Division, American Society for Engineering Education, 2008-2009.
- Advisory Committee Member, Inclusive Science: Articulating theory, practice, and action. College of St. Catherine, June 15-18, 2008.
- Conference Chair, Engineering, Social Justice and Peace: Grounded in Community, Engaged in Praxis. Smith College, April 4-6, 2008.
- Co-Organizer and Session Chair, Engineering and Social Justice, Binghamton, NY, April 27-28, 2007
- Conference Host, OWLS 2003 (program for untenured women faculty in engineering).
- Session Chair, Session S4H: Learning Models, Frontiers in Education, San Diego, CA, October 28-31. 2006.
- Session Chair, Warnings I: Medical Applications, International Ergonomics Association International Congress, Maastricht, the Netherlands, July 2006.
- Session Chair, Engineering and Social Justice, Liberal Education Division, American Society of Engineering Education Annual Conference, Chicago, IL, June 2006.
- Riley, D. Organizer with Claris, L., Ngambeki, I., Rua, A. and Mancha, E. Liberative Pedagogies in Engineering Education, Smith College, August 4-7, 2005.
- Riley, D. Principal organizer. EPA and ATSDR Ritualistic Uses of Mercury Task Force Forum, Arlington, VA, May 2001.

Media Appearances

- Society of Women Engineers. 2021. Celebrating Female Engineers Throughout History. One of Five Women celebrated during Women's History Month. <https://alltogether.swe.org/2021/02/celebrating-womens-history-month/>.
- Engineering Change Podcast. Yvette Pearson, host. December 2020.
- Campbell, P. and Thomas, V. Featured "Voices from the Field" Interview with Donna Riley. In *Evaluation in Today's World: Respecting Diversity, Improving Quality, and Promoting Usability*. Sage Publications, 2020. The Textbook & Academic Authors Association gave this book its i2021 Most Promising New Textbook Award.
- Cohen, B.R. "Public Thinker: Donna M. Riley on Engineering, Ethics, and Social Justice." *Public Books: A Magazine of Ideas, Arts, and Scholarship*. Feb. 24, 2020. <https://www.publicbooks.org/donna-riley-on-engineering-ethics-and-social-justice/>
- Cohen, Paula Marantz. Interview with Donna Riley. *The Civil Discourse*. Airs online and on PBS television affiliates via the National Educational Telecommunications Association (NETA), fall 2020.
- Kolowich, S. "The Accidental Ethicist," Chronicle of Higher Education, October 2, 2016. Quoted as engineering ethics expert on community participation.
- Fried, I. "I joined a bunch of LGBT techies at the White House to help tackle some world-threatening problems Recode. August 26, 2016." Quoted on need for LGBTQ data. <https://www.recode.net/2016/8/24/12623276/white-house-taps-lgbt-techies>
- Berrett, D. "Does Engineering Breed Terrorists?" Chronicle of Higher Education, March 23, 2016. Quoted as engineering education expert.
- Slaton, A.E. and Riley, D.M. The Wrong Solution for STEM Education. Inside Higher Ed, July 8, 2015. <https://www.insidehighered.com/views/2015/07/08/essay-criticizes-proposed-changes-engineering-accreditation-standards>.
- Lord, M. To the Barricades. ASEE Prism, November 2014, 35-36.
- Underhill, V. Queered Science Interview: Dr. Donna Riley and Engineering Social Justice. October 18, 2013. Autostraddle. <http://www.autostraddle.com/queered-science-interview-dr-donna-riley-and-engineering-social-justice-200233/>.
- Pine, A. Strange Labfellows. ASEE Prism, March-April 2013. Quoted as expert on engineering and the liberal arts.
- Riley, D. Alumni Profile: Donna Riley. Steinbrenner Institute for Environmental Education & Research Newsletter, Carnegie Mellon University, Fall 2012.

- ASEE is Me. <http://www.asee.org/asee-is-me>. One of sixteen leaders chosen to be profiled in promotion of ASEE membership, site launched in August 2012.
- National Academy of Engineering Online Ethics Center. <http://www.onlineethics.org/>. Features my syllabi and ethics case studies I have written. .
- Grose, T.K. (2012) Steeper Ascent: Should a master's be the minimum for engineers? ASEE Prism, Summer 2012. Quoted as expert on engineering and the liberal arts.
- Gibson, E. (2012). Fighting the Power: Professor arrested in peaceful action to close aging nuke plant. Smith Alumnae Quarterly, Summer 2012. Interview with Elise Gibson.
- Baillie, C. and Beeman, C. (2012) Social Justice and Higher Education. E-Book ISBN: 978-0-9571849. A collection of quotes from scholars on social justice and higher education.
- Irvine, M. (2011). Women making slow, sure strides in science, math. AP wire article printed in dozens of media outlets. October 22, 2011. Quoted as expert on gender and engineering.
- Schock, J.N. (2011). Secrets are Out: Lesbian, Gay, Bisexual, and Transgender engineers are no longer willing to hide their true selves. ASEE Prism, October 2011. Quoted as expert on LGBT issues in engineering.
- Scholars in Studio, Fall 2011. <http://www.smith.edu/video/engineering-social-justice>
- Riley, D. Interview with Bill Dwight on Engineering and Social Justice. The Bill Dwight Show, WHMP, September 5, 2008.
- "Alumni Interview: Donna M. Riley '93" PEI News, Princeton Environmental Institute, Fall 2007.
- The Real Hot 100 (www.therealhot100.org), 2006. Feminist bloggers created an alternative to the Maxim Hot 100, featuring women making a difference in all areas of society.
- Riley, D. Interview with Corey Flintoff for "Mercury." The Kojo Nnamdi Show, National Public Radio (WAMU). March 9, 2005.
- Riley, D. Interview with Cynthia Graber for "The Ritual Uses of Mercury." Living on Earth, National Public Radio. January 23, 2004.
- Riley, D. Interview with Dr. David Carpenter for "The Health Show", National Public Radio (WAMC). October 10, 2001.
- Riley, D.M. usage citation in American Heritage Dictionary of the English Language, 4th edition, for use of the term ad feminam, at entry for ad hominem. Boston: Houghton Mifflin, 2000, 21.

Consulting

- Pre-review of proposals, various individual and institutional clients, 2016-.
- ENGAGE Project: NSF-funded work on relevant applications of engineering to improve women's participation, 2009-2010.
- Versar, Inc., For USEPA. Re: Mercury exposure models, 2010.
- University of East Anglia. For Health and Safety Executive, UK. Re: Using mental models to design better risk communication for chemical risks in the workplace, 2000.
- Decision Partners (Pittsburgh, PA). For Chemical Manufacturer's Association. Re: Chemical risk communication, 1999.

Professional Memberships

- International Network for Engineering Studies
- American Society for Engineering Education
- Association for Practical and Professional Ethics
- National Organization of Gay and Lesbian Scientists and Technical Professionals
- Engineering, Social Justice, and Peace Network

UNIVERSITY SERVICE CONTRIBUTIONS

Purdue

- Panelist, Engineering Admitted Family Virtual Panel, Office of Future Engineers, March 22, 2022.
- Panelist, Department Head Expectations, ADVANCE FAST (Faculty Advancement, Success and Tenure) Workshop, February 15, 2022.
- Moderator, Balancing Research and Teaching, Butler Center Conference for Assistant Professors, October 12, 2021.
- Panelist, How can Leaders Support Faculty? Butler Center Support Circle, October 5, 2021.
- Panelist, Social Justice and Education, Butler Center Courageous Conversations, February 23, 2021.
- Panelist, Office of Future Engineers, College of Engineering, March 2021.
- Panelist, Black Trailblazers in Engineering, College of Engineering, February 2021.
- Panelist, Latin-E, College of Engineering, July 2020.
- Coach, Megan Sapp Nelson, Purdue Insights Forum, 2020-2021.
- Mentor to two junior faculty members, Coaching and Resource Network, Butler Center, 2019-
- Chair, First Year Engineering Curriculum Committee, 2017-
- College of Engineering Leadership Team, 2017-
- College of Engineering Area Promotion and Tenure Committee, 2017-
- Workshop Leader, "Inclusion and Equity in STEM classrooms: A Practical Approach," with Allison Godwin. Purdue Active Learning Community of Practice (ALCoP), October 28, 2019.

Virginia Tech

- ADVANCE/Inclusive VT Steering Committee, 2016-2017.
- University Committee on the Curriculum for General Education, 2015-2016.
- Committee on Ethics and Global Competencies in the Curriculum on Liberal Education, 2014-2015.
- Graduate Education Committee, Department of Engineering Education
- Planning Committee, Gender, Bodies, and Technology Conference 2016
- Search Committee, Director, Women and Gender Studies Program, 2017-2017.

Five Colleges, Inc. (Consortium of the University of Massachusetts, Smith College, Hampshire College, Amherst College, and Mt. Holyoke College)

- Steering Committee, Five College Feminist Science and Technology Studies Initiative, (FSTSI) 2011-
- Lecture Series, FSTSI (including leading a conversation on pedagogy), 2011-2012
- Reading Group, FSTSI, 2011-2012
- Writing Group, FSTSI, summer 2012
- Steering Committee, Five College Race, Gender, and Science Initiative, 2002-2006
- Search Committee, Ford Associates, Five College Women's Studies Research Center, 2006-2007

Smith College– College Level Service

- Program Committee, Study of Women and Gender, 2005-2013
- Ethics Program Advisor, 2007-2013
- President's Council on Diversity, 2011-2013
- Committee on Grievance, 2010-2012
- Center for Community Collaboration, proposal author (with Lisa Armstrong, Ginetta Candelario and Susannah Howe) and participating faculty, committee to develop concentration on Community Engagement and Social Change, 2011
- Committee on the Library, 2006-2009 (Chair, 2007-2009)
- Honor Board, 2007-2009
- Chair, Ad Hoc Committee on Information Literacy, 2007-2008

- Environmental Science and Policy Steering Committee, 2001-2007
- College Council on Community Policy, 2002-2003, Sustainability Sub-Committee Chair (and proposer of current College Sustainability Committee)
- Information Literacy Committee, 2002-2003
- Transgender Committee, 2001-2002

Science Center Service

- Science Center Committee on Diversity, 2006-2012 (chair spring 2009)
- McKinley Fellowship Selection Committee, 2011-12 and 2012-13.
- Reading/Discussion coordinator, Diversity and Science lunches, spring 2009
- Steering Committee, Science Scholars Program, 2006-2007
- BioSafety Committee, Clark Science Center, 2003-2006
- Safety Committee, Clark Science Center 2001-2003
- Fire Marshall, Little House, 2001-2002

Other College Service

- Sherrerd Center Learning Circle on Diversity, 2010-2012
- Sherrerd Center Learning Circle on Deepwater Horizon, 2010-2011
- Participant, Mellon 23 Workshop on Feminist Ethics, DePauw, June 2-5, 2010.
- Syllabus Presenter, Diversity and Academic Excellence, Tuesday, May 4, 2010
- Panelist, "Great Minds Don't Think Alike," Discovery Weekend, April 17, 2010
- Organizer (with Lisa Armstrong), Unacceptable: a play written and performed by Jana Natya Manch, April 9, 2007.
- Organizer (with Alex Keller), Who Killed the Electric Car? With filmmaker Chris Paine, April 13, 2007.
- Organizer (with Vicky Spelman), Big Dig, Big Questions, lecture and panel, March 3, 2007.
- Fellow, Lamont House, 2004-2006
- Smith Physical Plant Search Committee – Selected engineers for cogeneration study, 2003- 2004
- Alumnae lectures on engineering program 2005 (Orange County, CA, Pasadena, CA, and Alumnae Garden Symposium lecture)
- Community-based learning lunches, 2001-2002
- Admissions presentations on engineering (15 events from 2001-2005)
- Prospective Student visits and meetings, class visits, emails and outreach
- Student teas (1-2 per year, on average)
- Facilitator, discussion on diversity at new faculty orientation, fall 2002

Departmental Service: Picker Engineering Program

- Departmental Library Liaison, 2001-. Wrote Program's Information Literacy Document, 2007
- Assistant Professor Search Committees, 2004-2005; 2007-2008; 2011-12. Developed Processes for Diversity Recruitment and Equitable Candidate Review, 2011-2012
- Assessment Researcher Search Committee, 2006-2007
- Lab Instructor Search Participant, 2002, 2006-2007
- Program for the Study of Women and Gender Search Participant (two visiting faculty, 2006-2007; assistant professor 2010-2011)
- Faculty Advisor, National Society of Black Engineers, Society of Professional Hispanic Engineers, 2007-2013.
- Faculty Advisor, Engineers for a Sustainable World, 2003-2009; 2011-2012
- Biweekly Curricular Lunches, Spring 2010
- Chair, Committee on Access, Diversity and Preparation, Picker Engineering Program, 2006-2009
- Committee on Long-term Curricular Issues, Picker Engineering Program, 2006-2009