

JESSICA M. SMITH

Engineering, Design & Society Division
Colorado School of Mines
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EDUCATION

- 2009 University of Michigan
Ph.D. in Anthropology, Graduate Certificate in Women's Studies
Dissertation: Putting Kinship to Work: Gender and Relatedness in a Wyoming Coal Mining Community (Stuart Kirsch, chair)
- 2003 Macalester College
B.A. summa cum laude and departmental honors in Anthropology, International Studies and Latin American Studies
- 2002 Universidad de la Habana
"Culture, Community and Development," School for International Training

ACADEMIC POSITIONS

- 2018 *British Academy Visiting Fellow*
Department of Social Anthropology, University of St. Andrews
- 2017- *Associate Professor*
Engineering, Design & Society Division, Colorado School of Mines
- 2012-2017 *Hennebach Assistant Professor of Energy Policy*
Division of Liberal Arts & International Studies, Colorado School of Mines
- 2016- *Faculty Affiliate*
Center for Science and Technology Policy Research, University of Colorado
- 2010- *Research Affiliate*
Center of the American West, University of Colorado
- 2011 - 2012 *Anthropology Faculty (full time)*
Pikes Peak Community College, Colorado Springs, Colorado
- 2009 - 2010 *National Endowment for the Humanities Fellow*
Department of Anthropology, University of Colorado

RESEARCH INTERESTS

Energy and extractive industries, corporate social responsibility, gender, labor, kinship and families, social justice, engineering education

PUBLICATIONS

* denotes graduate student, ** denotes postdoc, *** denotes undergraduate student

Peer reviewed book

1. **Rolston, Jessica Smith.** 2014. *Mining Coal and Undermining Gender: Rhythms of Work and Family in the American West.* New Brunswick: Rutgers University Press.

Winner of the 2018 Western Social Science Association book award

Finalist for the Society for Economic Anthropology book prize and the Society for the Anthropology of Work's book prize

Edited, peer-reviewed journal special issues

1. High, Mette M. and **Jessica M. Smith.** 2019. Energy and Ethics? The Ethical Constitution of Energy Dilemmas. Forthcoming special issue of the Journal of the Royal Anthropological Institute.
2. Kinchy, Abby, Roopali Phadke and **Jessica M. Smith.** 2018. Engaging the Underground: An STS Field in Formation. *Engaging Science, Technology & Society* 4: 22-164.
3. **Smith, Jessica M.** and Mette M. High, eds. 2017. Exploring the Anthropology of Energy: Ethnography, Energy and Ethics. Special issue of *Energy Research and Social Science* 30: 1-116. <https://www.sciencedirect.com/science/journal/22146296/30>

Peer-reviewed journal articles

1. **Smith, Jessica M.** 2019. Boom to Bust, Ashes to (Coal) Dust: The Contested Ethics of Energetic Exchanges in the US Coal Market Collapse. Forthcoming from the Journal of the Royal Anthropological Institute.
2. **Smith, Jessica M.** and Nicole M. Smith. 2018. Engineering and the Politics of Commensuration in the Extractive Industries. *Engaging Science and Technology Studies* 4: 67-84. <https://doi.org/10.17351/ests2018.213>
3. Kinchy, Abby, Roopali Phadke and **Jessica M. Smith.** 2018. Engaging the Underground: An STS Field in Formation. Introduction to the forthcoming special issue of *Engaging Science, Technology & Society* 4: 22-42. <https://doi.org/10.17351/ests2018.213>
4. **Smith, Jessica** and Johan Thomas van Ierland***. Framing Controversy on Social Media: #NoDAPL and the Debate about the Dakota Access Pipeline on Twitter. *IEEE Transactions on Professional Communication* 99. <https://doi.org/10.1109/TPC.2018.2833753>
5. Zilliox, Skylar* and **Jessica M. Smith.** 2018. Colorado's Fracking Debates: Citizen Science, Conflict and Collaboration. *Science as Culture* 27 (2): 221-241. <https://doi.org/10.1080/09505431.2018.1425384>
6. Smith, Nicole M., **Jessica Smith,** Linda Battalora, and Benjamin Teschner.* 2018. Industry-University Partnerships: Engineering Education and Corporate Social Responsibility. 144 (3): *Journal of Professional Issues in Engineering Education and Practice.* [https://doi.org/10.1061/\(ASCE\)EI.1943-5541.0000367](https://doi.org/10.1061/(ASCE)EI.1943-5541.0000367).
7. LaPorte, David*, Erin Kim*** and **Jessica M. Smith.** 2017. Engineering to Help Communities or Students' Development? An ethnographic case study of an engineering-to-help student organization. *International Journal for Service Learning in Engineering* 12(2): 103-117. <https://doi.org/10.24908/ijsle.v12i2.6593>
8. **Smith, Jessica M.** and Mette High. 2017. Exploring the Anthropology of Energy: Ethnography, Energy and Ethics. Introduction to the special issue of *Energy Research and Social Science* 30: 1-6. <https://doi.org/10.1016/j.erss.2017.06.027>

9. Zilliox, Skylar* and **Jessica M. Smith**. 2017. Memorandums of Understanding and Public Trust in Local Government for Colorado's Unconventional Energy Industry. *Energy Policy* 107: 72-81. <https://doi.org/10.1016/j.enpol.2017.04.032>
10. **Smith, Jessica M.**, Carrie McClelland and Nicole Smith. 2017. Engineering Students' Views of Corporate Social Responsibility: A Case Study from Petroleum Engineering. *Science and Engineering Ethics* 23 (6): 1775-1790. <http://dx.doi.org/10.1007/s11948-016-9859-x>
11. Smith, Nicole M. **, **Jessica M. Smith**, Zira Q. John, Benjamin Teschner. 2017. Promises and Perceptions in the Guianas: The Making of an Artisanal and Small-Scale Mining Reserve. *Resources Policy* 51: 49-56. <http://dx.doi.org/10.1016/j.resourpol.2016.11.006>
12. Zilliox, Skylar* and **Jessica M. Smith**. 2017. Supraregulatory Agreements and Unconventional Energy Development: Learning from Citizen Concerns, Enforceability and Participation in Colorado. *Extractive Industries & Society* 4(1): 69-77. <http://dx.doi.org/10.1016/j.exis.2016.11.008>
13. Shaffer, Austin***, Skylar Zilliox* and **Jessica M. Smith**. 2017. Memorandums of Understanding and the Social License to Operate in Colorado's Unconventional Energy Industry. *Journal of Energy & Natural Resources Law* 35 (1): 69-85. <http://dx.doi.org/10.1080/02646811.2016.1216696>
14. **Smith, Jessica M.** and Abraham Tidwell. 2016. Everyday Lives of Energy Transitions: Contested Sociotechnical Imaginaries in the American West. *Social Studies of Science* 46(3): 327-350. <http://dx.doi.org/10.1177/0306312716644534>
15. **Smith, Jessica M.** and Juan Lucena. 2016. Invisible Innovators: How Low Income, First Generation (LIFG) Students Use Their Funds of Knowledge to Belong in Engineering. *Engineering Studies* 8 (1): 1-26. <http://dx.doi.org/10.1080/19378629.2016.1155593>
16. **Smith, Jessica M.** and Juan Lucena. 2016. "How do I show them I'm more than a person who can lift heavy things?" The Funds of Knowledge of Low Income, First Generation Engineering Students. *Journal of Women and Minorities in Science and Engineering*, 22(3): 199-221. <http://dx.doi.org/10.1615/JWomenMinorScienEng.2016015512>
17. Zilliox, Skylar*, **Jessica M. Smith**, Corinne Packard, and Carl Mitcham. 2016. Teaching the ethics of science and engineering through humanities and social science: A case study of evolving student perceptions of nanotechnology. *Teaching Ethics*. <http://dx.doi.org/10.5840/tej2016112334>
18. Tidwell, Abraham* and **Jessica M. Smith**. 2015. Morals, Materials, and Technoscience: Reimagining Energy Security as a Sociotechnical Imaginary in the United States. *Science, Technology & Human Values* 40(5): 687-711. <http://dx.doi.org/10.1177/0162243915577632>
19. **Rolston, Jessica Smith**. 2015. Turning Mine Protesters into Collaborators: The Opportunities and Challenges of Corporate Social Responsibility in the Mining Industry. *Society and Natural Resources* 28(2): 165-179. <http://dx.doi.org/10.1080/08941920.2014.945063>
20. **Rolston, Jessica Smith**, Skylar Zilliox*, Corinne Packard, Carl Mitcham and Brian Zaharatos. 2014. Nanoethics and Policy Education: A Case Study of Social Science Coursework and Student Engagement with Emerging Technologies. *NanoEthics* 8:217-225. <http://dx.doi.org/10.1007/s11569-014-0210-1>
21. **Rolston, Jessica Smith**. 2013. The Politics of Pits and the Materiality of Mine Labor: Making Natural Resources in the American West. *American Anthropologist* 115 (4): 582-594. <http://dx.doi.org/10.1111/aman.12050>
22. Mitcham, Carl, Laura Heller, Wang Nan, Corinne Packard, Cortney Holles, Derrick Hudson and **Jessica Rolston**. 2013. Nanotechnology, Ethics and Policy Education: Learning and

Sharing Across Boundaries. *Journal of Nano Education* 5(2): 180-187.
<http://dx.doi.org/10.1166/jne.2013.1038>

23. **Rolston, Jessica Smith.** 2010. Risky Business: Neoliberalism and Workplace Safety in Wyoming Coal Mines. *Human Organization* 69 (4): 331-342.
<http://dx.doi.org/10.17730/humo.69.4.j5158321nn864uu>
24. **Rolston, Jessica Smith.** 2010. Talk about Technology: Negotiating Gender Difference in Wyoming Coal Mines. *Signs: Journal of Women in Culture and Society* 35 (4): 893-918.
<http://dx.doi.org/10.1086/651039>
25. **Smith, Jessica M.** and Federico Helfgott. 2010. Corporate Social Responsibility and the Perils of Universalization. *Anthropology Today* 26(3): 20-23. <http://dx.doi.org/10.1111/j.1467-8322.2010.00737.x>
26. **Smith, Jessica M.** 2008. Crafting Kinship at Home and Work: Women Miners in Wyoming. *Women and Work* issue, edited by Kathlene McDonald, *WorkingUSA: The Journal of Labor and Society* 11(4): 439-458. <http://dx.doi.org/10.1111/j.1743-4580.2008.00218.x>

Peer-reviewed book chapters

1. **Smith, Jessica M.** 2017. From Corporate Social Responsibility to Creating Shared Value: Contesting Responsibilization and the Mining Industry. In *Competing Responsibilities: The Ethics and Politics of Contemporary Life*, Susanna Trnka and Catherine Trundle, eds. Pp 118-132. Durham: Duke University Press.
2. **Smith, Jessica M.** 2018. Mining and Corporate Social Responsibility. *Routledge Companion to Environmental Ethics*. New York: Routledge. In press.
3. **Rolston, Jessica Smith.** 2015. Women in the Mine. *Conformity and Conflict: Readings in Cultural Anthropology*. David McCurdy and Dianna Shandy, eds. 15th ed. New York: Pearson.
4. **Rolston, Jessica Smith** and Elizabeth Cox. 2015. Engineering by Doing: Diversity, Innovation and Hands-On Learning. In *International Perspectives on Engineering Education: Engineering Education and Practice in Context*. Volume 1, S.H. Christensen et al. Pp. 261-278. New York: Springer.
5. **Rolston, Jessica Smith.** 2013. Specters of Syndromes and Everyday Lives of Energy Workers in Wyoming. In *Cultures of Energy: Anthropological Perspectives on Power*. Sarah Strauss, Stephanie Rupp, and Thomas Love, eds. Pp. 584-592. San Francisco: Left Coast Press.
6. **Smith, Jessica M.** 2010. Workplace Egalitarianism in Nonunion Mines: Lessons from Wyoming's Powder River Basin. In *Anthropology of Labor Unions*. Paul Durrenberger and Karaleah Reichart, eds. Pp. 103-130. Boulder: University Press of Colorado.

Peer-reviewed conference proceedings

1. **Smith, Jessica,** Nicole Smith, Greg Rulifson, Carrie McClelland, Linda Battalora, Emily Sarver and Rennie Kaunda. 2018. Student Learning about Engineering and Corporate Social Responsibility: A Comparison across Engineering, Design and Liberal Arts Courses. *Proceedings of the American Society for Engineering Education conference, Salt Lake City.*
2. **Smith, Jessica** and Juan Lucena. 2018. "Social Responsibility in Engineering Education and Practice: Alignments, Mismatches and Future Directions." *Proceedings of the American Society for Engineering Education conference, Salt Lake City.*
3. **Smith, Jessica,** Carrie McClelland and Nicole Smith**. 2016. Petroleum Engineering Students' Views of Corporate Social Responsibility. *Proceedings of the American Society for Engineering Education conference, New Orleans LA.*

4. McClelland, CJ, **Jessica M. Smith**, Nicole M. Smith**. 2016. Bringing Corporate Social Responsibility into the Petroleum Engineering Classroom. Proceedings of the Frontiers in Education conference, Erie PA.
5. **Smith, Jessica** and Juan Lucena. 2015. Making the Funds of Knowledge of Low Income, First Generation (LIFG) Students Visible and Relevant to Engineering Education. American Society for Engineering Education conference, Seattle.

Published abstracts

1. **Rolston, Jessica Smith** and Colleen Kavanaugh***. 2014. Public Perceptions of Unconventional Gas Development in Colorado. Geological Society of America, Vancouver.

Book reviews and other

1. **Smith, Jessica** and Stuart Kirsch. N.d. Mining. International Encyclopedia of Anthropology, Hilary Callan, ed. New York: Wiley-Blackwell. Forthcoming.
2. **Smith, Jessica**. 2017. Blind Spots of Liberal Righteousness. Cultural Anthropology hot spots series on “The Rise of Trumpism.” January 18, 2017. <https://culanth.org/fieldsights/1044-blind-spots-of-liberal-righteousness>
3. **Smith, Jessica**. 2016. Review of Jacka, Jerry. Alchemy in the Rain Forest: Politics, Ecology, and Resilience in a New Guinea Mining Area. (Duke University Press, 2015). Journal of Anthropological Research 72(4): 581-583. <https://doi.org/10.1086/689381>
4. **Smith, Jessica**. 2016. Climate Change Justice and Corporate Responsibility. Journal of Energy & Natural Resources Law 34(1): 70-74. <http://dx.doi.org/10.1080/02646811.2016.1120074>
5. **Rolston, Jessica Smith**. 2014. In the “War on Coal,” the industry can be its own worst enemy. LSE (London School of Economics) American Politics and Policy (25 Mar 2014) Blog Entry. <http://eprints.lse.ac.uk/58782/>
6. Mitcham, Carl and **Jessica Smith Rolston**. 2013. Energy Constraints. Science and Engineering Ethics 19(2): 313-319. <http://dx.doi.org/10.1007/s11948-013-9446-3>
7. **Rolston, Jessica Smith**. 2012. Review of Rajak, Dinah. In Good Company: An Anatomy of Corporate Social Responsibility (Stanford University Press, 2011). American Ethnologist 39 (4): 855-856.
8. **Rolston, Jessica Smith**. 2011. Review of Moreton, Bethany. To Serve God and Wal-Mart: The Making of Christian Free Enterprise (Harvard University Press, 2009). Contemporary Studies in Society and History 53 (1): 225-226
9. **Smith, Jessica M.** 2008. Review of Ferry, Elizabeth Emma. Not Ours Alone: Patrimony, Value and Collectivity in Contemporary Mexico. (Columbia University Press, 2005). Anthropology of Work Review 29 (2): 43-44.

FELLOWSHIPS AND GRANTS

- 2018 British Academy International Visiting Fellowship “Energy, engineering and ethics: Forging new interdisciplinary research visions and practices.” Funding to spend sabbatical at the Department of Anthropology, University of St. Andrews. (PI, \$19,500)
- 2017 National Science Foundation Grant 1743749 “PIRE-Sustainable Communities & Gold Supply Chains: Integrating Responsible Engineering & Local Knowledge to Design, Implement & Evaluate Sustainable Artisanal Mining in Latin America.” (Co-PI, \$4 million)

- 2017 NSF grant 1734044 “EAGER: Investigating and Pinpointing the College Success Factors for First-Generation, Underrepresented College Students in Engineering.” (PI, \$300,000)
- 2016 NSF grant 1632651 to host the workshop “STS Underground: Investigating the Technoscientific Worlds of Mining and Subterranean Extraction” at CSM (Co-PI, \$25,000)
- 2015 NSF Research Grant 1540298: “The Ethics of Extraction: Integrating Corporate Social Responsibility into Engineering Education” (PI, \$450,000)
- 2013 NSF Research Grant 1354087: “Invisible Innovators: How the knowledge and experiences of low-income and first-generation students (LIFGs) can contribute to US engineering problem definition and solving” (PI, \$200,844)
- 2013 Colorado School of Mines Research Council Undergraduate Research Fellowships (two), to mentor an undergraduate in the project “Nanoethics and Policy Education Effectiveness”
- 2010 National Endowment for the Humanities Fellowship
- 2007 University of Michigan Rackham Predoctoral Fellowship
- 2007 University of Michigan Institute for Research on Women and Gender Community of Scholars Award (declined)
- 2007 Bernard Majewski Fellow, American Heritage Center, University of Wyoming
- 2006 National Science Foundation Dissertation Improvement Grant 0612829
- 2006 PEO Foundation (Philanthropic Education Organization) Scholar Award
- 2005 Alfred P. Sloan Center for the Ethnography of Everyday Life Pre-Doctoral Fellowship (3 years)
- 2005 Rackham Graduate School Research and Travel Grants (five total)
- 2004 National Science Foundation Graduate Research Fellowship honorable mention
- 2003 Beinecke Scholar, The Sperry Fund (two years)
- 2003 University of Michigan Literature, Science and Arts Regents Fellow

HONORS AND AWARDS

- 2018 Western Social Science Association book prize for *Mining Coal and Undermining Gender*
- 2016 Exemplar in Engineering Ethics, National Academy of Engineering
- 2015 Martin Luther King Jr. Recognition Award, Colorado School of Mines
- 2015 Finalist, Society for the Anthropology of Work book prize, *Mining Coal and Undermining Gender*
- 2014 Finalist, Society for Economic Anthropology book prize, *Mining Coal and Undermining Gender*
- 2011 Selection to the Early Career Scholars Program of the Work and Family Researchers Network (formerly the Sloan Network)
- 2009 University of Michigan Distinguished Dissertation Award Nominee in Anthropology
- 2008 Association for Feminist Anthropology Sylvia Forman essay prize
- 2008 Phi Kappa Phi honors society

- 2005 St. Clair Drake Award, Society for the Anthropology of North America
- 2005 Best Graduate Student Paper, Central States Anthropological Society
- 2003 Phi Beta Kappa
- 2003 Spradley Research Award for Outstanding Scholarship in Anthropology (Macalester College)

INVITED LECTURES

1. Invisible Innovators: How Low Income, First Generation Students Can Redefine Socially Responsible Engineering. 2018. Henry M. Rowan College of Engineering. With Juan Lucena.
2. Engineering “Conscious Capitalism”: Exploring the Environmental Ethics of Engineers in the Extractive Industries. 2018. Macalester College.
3. Translating Engineering for Sustainable Community Development into Professional Practice. Engineers Without Borders – Denver professional chapter, University of Denver. 2018. With Juan Lucena.
4. Socially and Environmentally Responsible Engineering: Past, Present, Future and Possibilities for Collaboration. 2018. Western State Colorado University. With Juan Lucena.
5. The Problem is the Problem: A Strategy for Making Social Justice and Social Responsibility Visible in Engineering Education. 2017. Invited keynote for the Engineering & Social Justice ASEE student chapter conference, Stanford University. With Juan Lucena and Jon Leydens.
6. La educación de los ingenieros ante los retos que enfrenta Colombia/Engineering Education to Address the Challenges Facing Colombia. 2017. Invited keynote for the 2017 Encuentro Internacional de Educación en Ingeniería, Asociación Colombiana de Facultades de Ingeniería/International Meeting of Engineering Education, Colombian Association of Engineering Faculty conference “Engineering Faculty and their Commitment with Society.” With Juan Lucena.
7. How Can Social Justice and Social Responsibility Add Value to Engineering Research and Professional Practice? 2017. Re-Inventing the Nation's Urban Water Infrastructure (ReNUWIt), Colorado School of Mines simulcast with Stanford University, University of California at Berkeley and New Mexico State. With Jon Leydens.
8. Low Income Literati: Transforming Textual and Practical Funds of Knowledge into Engineering Capital. 2017 Invited lecture for the NSF-funded Literacies in Engineering Access and Participation conference, San Antonio, Texas. With Juan Lucena.
9. Misadventures in “Trump Country”: Ethnography, Empathy and Political Difference. 2017. Williams College.
10. Supraregulatory Agreements and Public Perceptions of Unconventional Energy Development in Colorado. 2017. Center for Science and Technology Policy Research, University of Colorado.
11. Responsible Mining & Mine Closure Activities. 2016. Mining & Metallurgical Society of America Denver section.
12. Ingeniería, Extractivas y el Post-conflicto: CTS al Servicio de la Justicia Social/Engineering, Extractives and the Post-Conflict: STS at the service of social justice. 2016. Closing remarks for the “Ingenuity, Science, Technology and Society: Dialogues and challenges in Colombia,” Engineering Faculty of the Universidad Nacional de Colombia. With Juan Lucena.
13. Inside the Belly of the Beast: How engineers transform Corporate Social Responsibility (CSR) for social justice. 2016. Invited lecture at California Polytechnic University. With Juan Lucena.
14. Memorandums of Understanding: Collaboration During Conflict. 2016. University of Denver Sturm College of Law. With Skylar Zilliox.

15. Policy Approaches to Achieving the Social License to Operate: Comparing Mining and Unconventional Energy Community Conflicts in the American West. 2016. Van Tuyl lecture, Department of Geology and Geological Engineering, CSM.
16. They Have Much to Contribute: Making Low-Income and First-Generation Students Visible and Valued at Mines. 2016. Colorado School of Mines. With Juan Lucena.
17. Undoing Gender in Macho Industries: Ethnographic Perspectives on Women, Men and Mining in Wyoming. 2015. Visiting Women Minority Lecturer/Scholar Series, Michigan Tech, Houghton, MI.
18. Converting the Funds of Knowledge of Low Income, First Generation Engineering Students into Economic, Social and Cultural Capital. 2015. Environmental Engineering Program, University of Colorado at Boulder. With Juan Lucena.
19. Strategies for Supporting Women in the Mining Workforce. 2015. Women in Mining group, Denver.
20. “How do I show them that I'm more than a person who can lift heavy things?” Connecting the Funds of Knowledge of Low Income, First Generation Students and Engineering Education. 2015. Department of Anthropology, Wayne State University, Detroit, MI.
21. Ethics in NanoScience. 2015. Renewable Energy Research Experience for Undergraduates summer program, CSM. With Corinne Packard.
22. Destabilizing the Macho World of Mining. 2014. Hennebach Program in the Humanities Lecture, CSM.
23. Integrating Women into Historically Masculine Industries: A Perspective from Extractive Industries. 2014. Renewable Energy Research Experience for Undergraduates summer program, CSM.
24. Women Miners of the Powder River Basin. 2013. Campbell County Rockpile Museum, Gillette, WY.
25. Gender and Workplace Diversity. 2013. Government Accountability Office, Denver, CO.
26. Intimacy and Ignorance in Energy Networks. 2013. University of Wyoming College of Education training for K-12 science teachers.
27. Mining and Corporate Social Responsibility. 2012. Hennebach Lecture, CSM.
28. Closing remarks, Shepard Symposium on Environmental Social Justice. 2010. University of Wyoming.
29. Advancements of Women in Western Coal Mining. 2009. Conference speech, Rocky Mountain Coal Mining Institute annual meeting, Aspen, Colo.
30. The Cowboy Spirit of the Clean Coal Campaign. 2009. Graduate Student Speaker Series, Department of Anthropology, University of Colorado at Boulder.
31. Kinship, Labor, and the Law: Women’s Engagement with Wyoming’s Coal Mining Industry. 2007. Majewski Lecture, American Heritage Center, University of Wyoming.

CONFERENCE PRESENTATIONS (since 2006)

1. **Smith, Jessica** and Juan Lucena. 2018. Beyond Engineering Ethics: How to Integrate Social Justice and Social Responsibility in the Engineering Curriculum. Union College Engineering and Liberal Education Symposium.
2. **Smith, Jessica**. 2018. Learning from the past to chart the future: Early innovations in Corporate Social Responsibility at AMAX. Panel “The Benefits of Stakeholder Dialogue: Creating Shared Value in the Mining Sector” at the Society for Mining, Metallurgy & Exploration (SME), Minneapolis.
3. **Smith, Jessica**, Nicole Smith, Greg Rulifson, Carrie McClelland, Linda Battalora, Emily Sarver and Rennie Kaunda. 2018. Student Learning about Engineering and Corporate Social

- Responsibility: A Comparison across Engineering, Design and Liberal Arts Courses. American Society for Engineering Education, Salt Lake City.
4. **Smith, Jessica** and Juan Lucena. 2018. Social Responsibility in Engineering Education and Practice: Alignments, Mismatches and Future Directions.” American Society for Engineering Education, Salt Lake City.
 5. **Smith, Jessica.** 2018. Rethinking Rural Communities and Natural Resource Production: Rural Engineers. Western Social Science Association, San Antonio.
 6. **Smith, Jessica.** 2017. Humanities, Engineering and Corporate Social Responsibility. Part of the panel “Humanities-STEM Integration in Undergraduate Education” at the National Humanities Conference, Boston.
 7. Smith, Nicole and Jessica Smith. 2017. La minería artesanal y de pequeña escala: Definición y solución de problemas socio-técnicos entre ingenieros y comunidades. Taller Las dimensión social en el desarrollo exitoso de proyectos mineros – Caso minería artesanal y a pequeña escala. Universidad Nacional de Colombia Sede Medellin.
 8. **Smith, Jessica** and Juan Lucena. 2017. Justicia social en la educación del ingeniero para las industrias extractivas. VII Convención Cubana de Ciencias de la Tierra (GEOCIENCIAS 2017), “Las Geociencias al servicio de la Sociedad y el Desarrollo.” / Social Justice in engineering education for the extractive industries. VII Cuban Convention on the Earth (Geosciences 2017), “The Geosciences at the Service of Society and Development.”
 9. **Smith, Jessica**, Nicole Smith, CJ McClelland and Linda Battalora. 2017. Where are the people? Including social sustainability in the circular economy. Engineering Solutions for Sustainability: Materials and Resources 3, Denver. Panel: Educating the Future Engineer.
 10. Smith, Nicole, **Jessica Smith**, Qin Zhu and Carl Mitcham. 2017. Deepening Engineering Ethics by Exploring the Corporate Dimensions of Social Responsibility. Association for Applied and Professional Ethics, Dallas.
 11. Smith, Nicole, **Jessica Smith**, Benjamin Teschner, and Linda Battalora. 2017. Social Responsibility and Petroleum Engineering Education: Lessons from Field-Based Education. Society for Petroleum Engineers-Health Safety Security Environment and Social Responsibility conference – North America. New Orleans.
 12. Smith, Nicole and **Jessica Smith.** 2017. CSR as an Engineering Competency for the Mining Industry. Society for Mining, Metallurgy & Exploration (SME), Denver.
 13. **Smith, Jessica.** 2016. Dirty Energy, Dirty Jobs? Ethical Entanglements in the US Coal Market Collapse. Energy Ethics conference, University of St Andrews (Scotland).
 14. **Smith, Jessica.** 2016. Engineering the Underground to Settle the Surface: Sociotechnical Responsibility and Engineering in the Extractive Industries. Society for Social Studies of Science, Barcelona.
 15. Lucena, Juan and **Jessica Smith.** 2016. Engineering By Other Means: How the marginalized knowledges of low-income engineers contribute to sustainable community development. Society for Social Studies of Science, Barcelona.
 16. **Smith, Jessica** and Juan Lucena. 2016. How Humanitarian Engineering & Corporate Social Responsibility Shape Mining Engineering Education. Society of Mining Professions 4th Regional Meeting, Latin America. Facultad de Minas, Universidad Nacional de Colombia Sede Medellin.
 17. **Smith, Jessica.** 2016. Boom to Bust, Ashes to (Coal) Dust: Living the Coal Collapse in Wyoming. American Anthropological Association, Minneapolis.
 18. **Smith, Jessica.** 2015. Understanding Competing Responsibilities for the panel Designing Professional Communication and Responsibilities: Beyond Professional Codes of Ethics in Engineering at the International Communication Association (ICA) Nordic Regional Conference Responsible Communication and Governance conference, Copenhagen Business School.

19. **Smith, Jessica M.**, Sklyar Zilliox* and Austin Shaffer*. 2015. Technopolitical Trust: Memorandums of Understanding and Public Engagement with Natural Gas Development in Colorado. American Anthropological Association, Denver.
20. **Smith, Jessica and Abe Tidwell.** 2015. Working for the I(man)ginaries: Labor, Energy and the “Good Society.” Society for Social Studies of Science, Denver.
21. **Lucena, Juan and Jessica Smith.** 2015. Making Meaning, Doing Social Justice: The Emotional Roller Coaster of Integrating Corporate Social Responsibility in Engineering Education. Society for Social Studies of Science, Denver.
22. **Smith, Jessica and Juan Lucena.** 2015. Making the Funds of Knowledge of Low Income, First Generation (LIFG) Students Visible and Relevant to Engineering Education. American Society for Engineering Education conference, Seattle.
23. **Rolston, Jessica Smith.** 2014. Temporal Politics of Obligation and Bounds of Corporate Responsibility. Invited paper for the Rethinking Responsibilities Colloquium, Harvard Univ.
24. **Rolston, Jessica Smith** and Colleen Kavanaugh*. 2014. Public Perceptions of Unconventional Gas Development in Colorado. Geological Society of America, Vancouver.
25. **Lucena, Juan and Jessica Smith Rolston.** 2014. Invisible Innovators: How low-income students' agency, critical questioning, and funds of knowledge might connect engineering/design for development (EDfD) with social justice. Annual meeting of the Engineering for Social Justice and Peace conference, Buenos Aires, Argentina.
26. **Lucena, Juan and Jessica Smith Rolston.** 2014. Invisible Innovators: Exploring the links between low income students, social justice, and engineering/design for development. Engineering/Design for Development & Wellbeing / Agency / Justice. TU Delft, Netherlands.
27. **Rolston, Jessica Smith** and Juan Lucena. Engineering Education and the Politics of Invisible Knowledges. 2014. Annual meeting of the American Ethnological Society, Boston.
28. **Rolston, Jessica Smith.** 2014. Everyday Lives and Energy Transitions. Biennial meeting of the Society for Cultural Anthropology, Detroit.
29. **Rolston, Jessica Smith.** 2014. Energy Security and Sociotechnical Imaginaries in the Productive American West. Annual meeting of the Society for Economic Anthropology, Austin.
30. **Rolston, Jessica Smith**, Skylar Huzyk Zilliox*, Corinne Packard and Carl Mitcham. 2014. Nanoethics and Policy Education Effectiveness. Association for Practical and Professional Ethics, Tampa.
31. **Rolston, Jessica Smith.** 2013. Moral Economies of Market Collapses: Coal Mining and Precarity in the American West. Annual meeting of the American Anthropological Association (AAA), Chicago.
32. **Rolston, Jessica Smith.** 2013. Ghost Mines: Experiences of Energy Market Downturns in Wyoming. Annual meeting of the Society for Applied Anthropology, Denver.
33. **Rolston, Jessica Smith.** 2013. From Mine Protestors to Mine Monitors: Corporate and NGO collaboration in the American West. International Symposium on Society and Resources, Estes Park.
34. **Rolston, Jessica Smith.** 2012. Mining Language: Gender Difference and Everyday Talk In Wyoming. AAA, San Francisco.
35. **Rolston, Jessica Smith.** 2012. Risk and Resource Materialities: Coal Extraction in Wyoming. Engaging Resources: New Anthropological Perspectives on Natural Resource Environments, Balsillie School of International Affairs, Waterloo, Canada.
36. **Rolston, Jessica Smith.** 2010. What Are Good Intentions Good For? Corporate Social Responsibility in the Mining Industry. AAA, New Orleans.
37. **Rolston, Jessica Smith.** 2010. Commodity Networks and the Cowboy Spirit of the Clean Coal Campaign. Society for the Anthropology of North America/Association of Black Anthropologists annual meeting, University of Colorado at Denver.
38. **Rolston, Jessica Smith.** 2010. Indigenous Communities, Mining Companies and Environmental Justice in Peru. Shepard Symposium on Social Justice, University of Wyoming.

39. **Smith, Jessica.** 2009. Rethinking Kinship and Gender Difference: Men and Women in a U.S. Mining Community. AAA, Philadelphia.
40. **Smith, Jessica.** 2008. "You Want Me to Sign What?" Implications of IRB Imaginations for Fieldwork Collaboration. AAA, San Francisco.
41. **Smith, Jessica.** 2008. Jumbled Talk, Confused Women? Language, Technology and the Gendering of Expertise in Wyoming Coal Mines. Michicagoan Graduate Student Conference in Linguistic Anthropology, University of Chicago.
42. **Smith, Jessica.** 2007. Microwave Outlaws and Other Workplace Pranksters: Joking and the Construction of Crew Camaraderie. American Ethnological Society annual meeting, Toronto, Canada.
43. **Smith, Jessica.** 2006. Making It Home Safely: Using Anthropology to Improve Coal Mine Safety Programs. Invited session at the AAA, San Jose.
44. **Smith, Jessica.** 2006. Ethical Economics: Audit Culture and the Generation of Value in the Mining Industry. Society for Cultural Anthropology annual meeting, Milwaukee.

TEACHING AWARDS

- 2016 Exemplar in Teaching Engineering Ethics, National Academy of Engineering (1 of 25 national programs/courses)
- 2012- Recognition by the following Mines student organizations for outstanding teaching: Society for Women Engineers; Pi Beta Phi; Sigma Phi Epsilon; Phi Gamma Delta
- 2008 Michigan Teaching Fellow, Center for Research on Learning and Teaching
- 2005 Outstanding Teaching Award, Panhellenic Association and Interfraternity Council. Nominated and selected by students representing 60 University of Michigan fraternities and sororities to receive one of two annual awards.
- 2005 Outstanding Graduate Student Instructor, Rackham Graduate School, departmental nomination.
- 2004 Outstanding Graduate Student Instructor, Department of Anthropology. Awarded by faculty based on student evaluations.

TEACHING AND MENTORING

*Courses taught (*CSM)*

- Corporate Social Responsibility*
- Community Based Research/Engineers Engaging Communities*
- Cultural Anthropology*
- Energy and Society*
- Explorations in the Modern World (Cultural Anthropology honors course)*
- Anthropology of Energy
- Cross-Cultural Communication
- Introduction to Anthropology
- Introduction to Sociology

Mentoring

- Primary advisor for 1 postdoctoral fellow

Primary advisor for 3 Master's in International Political Economy of Resources students
 Primary advisor for 2 Environmental Engineering master's students
 Dissertation committee member for 22 PhD candidates (Mechanical Engineering, Petroleum Engineering, Mining Engineering, Mineral and Energy Economics, Geophysics, Environmental Engineering)
 Advisor for 2 undergraduate student researchers in CSM REMERSEC summer REU
 Research advisor for 3 CSM Research Council Undergraduate Research Fellowships
 Research advisor for 3 ConocoPhillips undergraduate scholars
 Social context consultant for 2 CSM senior design teams

PROFESSIONAL SERVICE

Organized conferences, workshops and panels

- 2017 Co-organizer of the NSF-funded “STS Underground: Exploring the Technoscientific Worlds of Mining and Subterranean Extraction” at Mines with Roopali Phadke and Abby Kinchy. <http://www.mines.edu/STSU>
- 2017 Co-organizer of the “Engineering for Social Justice and Social Responsibility: A Multi-space and Multi-strategy Approach for Transforming Engineering Education” workshop at the American Society for Engineering Education conference and exposition, Columbus. With Jon Leydens and Juan Lucena.
- 2016 Co-organizer of the international “Energy Ethics: Fragile Lives and Imagined Futures” conference at the University of St Andrews, funded by the British Academy, with Mette High. <http://energyethics.wp.st-andrews.ac.uk/>
- 2016 Co-organizer of the “What’s Missing in the Technical? Rendering the Social Visible by Integrating Social Justice Where It Matters Most—Engineering Problem Definition and Solution” workshop at the American Society for Engineering Education conference, New Orleans. With Jon Leydens and Juan Lucena.
- 2016 Steering committee, “Reasonable Expectations for Mine Closure” conference, Colorado School of Mines.
- 2016 Co-organizer of the panel “STS Underground: Ignorance and Invisibility in the Worlds of Mining and Underground Extraction,” Society for Social Studies of Science, Barcelona.
- 2016 Co-organizer of the Engineering & Social Justice CSM faculty workshop.
- 2015 Co-organizer of the international “Corporate Social Responsibility in Extractive Industries: Putting Communities First Makes Sense for Business, Learning and Social Change” conference at Colorado School of Mines.
- 2015 Co-organizer of the “Corporate Social Responsibility and Sustainable Development: Exploring Opportunities in Engineering Education” workshop, Engineering Education for Sustainable Development conference, Vancouver.
- 2015 Co-organizer of the panel The Labor of Energy Transitions: Work, Technoscience, and the Lived Experience of Energy Producers, 4S, Denver. With Abe Tidwell.
- 2015 Co-organizer, Engineering and Social Justice CSM faculty workshop.

- 2013 Co-organizer, Energy and the American West panel, Society for Applied Anthropology annual conference, Denver. With Jen Schneider.
- 2012 Co-organizer and chair, Gender and Natural Resources: Global Perspectives on Extractive Economies and Communities panel, AAA, San Francisco.

External service

- 2018 Moderator for the 1st Generation/Socioeconomic Status Leadership Roundtable, ASEE annual conference, Salt Lake City
- 2017 Moderator for two sessions at the international workshop “Las dimensión social en el desarrollo exitoso de proyectos mineros – Caso minería artesanal y a pequeña escala.” Universidad Nacional de Colombia Sede Medellin.
- 2015 Discussant, Anthropology Underground: The Politics of Contemporary Resource Extraction conference, University of Michigan.
- 2015 Discussant, Corporate Expertise panel, American Anthropological Association meeting, Denver.
- 2015 Discussant, Author-Meets Critic session for *Refining Expertise* (by Gwen Ottinger), winner of the Society for Social Studies of Science Rachel Carson Prize, 4S, Denver.
- 2014 - National Science Foundation panel reviewer
- 2013 National Endowment for the Humanities panel reviewer
- 2011 - Judge, Thompson Writing Awards, University of Colorado Center of the American West
- 2009 - 2015 Contributing editor, *Anthropology News*
- 2009 - 2015 Executive board member, Association for Feminist Anthropology

Institutional service

- 2017 - President’s Council on Diversity
- 2016 - Co-Director, Humanitarian Engineering program
- 2014- Leadership Team, ConocoPhillips Center for a Sustainable WE²ST (Water-Energy Education, Science and Technology)
- 2015- Member, Colorado School of Mines Graduate Council
- 2012 - 2016 Member, Humanitarian Engineering Advisory Committee
- 2012 - 2016 Member, Energy Minor Curriculum Committee
- 2012- 2016 Member, Hennebach Advisory Committee (chair, Spring 2013)
- 2013 - 2015 Member, Colorado School of Mines Undergraduate Council
- 2013 - 2015 Member, Liberal Arts and International Studies Curriculum Committee

Occasional Reviewer: *Current Anthropology*; *American Ethnologist*; *American Anthropologist*; *Cultural Anthropology*; *Journal of Engineering Education*; *Social Studies of Science*; *Science, Technology & Human Values*; *Engineering Studies*; *Journal of Women and Minorities in Science and Engineering*; *Science and Engineering Ethics*; *International Journal of STEM Education*; *Society & Natural Resources*; *Extractive Industries and Society*; *Energy Research & Social Science*;

Journal of Cleaner Production; Journal of Material Culture; Journal of Latin American and Caribbean Anthropology; Economic Anthropology; Antipode, Berghahn Books; Routledge; University of Kansas Press.

PROFESSIONAL MEMBERSHIPS

Society for Social Studies of Science

American Society for Engineering Education

American Anthropological Association