

# ABBY J. KINCHY

Curriculum Vitae, March 2022

Department of Science and Technology Studies  
Rensselaer Polytechnic Institute  
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## EDUCATION

Doctor of Philosophy, University of Wisconsin, Sociology and Rural Sociology, August 2007  
Master of Science, University of Wisconsin, Sociology and Rural Sociology, Fall 2002  
Bachelor of Science, Vassar College, Science, Technology and Society, Spring 1996

## ACADEMIC POSITIONS

January 2020-present	<b>Professor</b> , Department of Science and Technology Studies, Rensselaer Polytechnic Institute
August 2019-July 2021	<b>Undergraduate Programs Director</b> , Department of Science and Technology Studies, Rensselaer Polytechnic Institute
July 2013-December 2019	<b>Associate Professor</b> , Department of Science and Technology Studies, Rensselaer Polytechnic Institute
July 2014-June 2017	<b>Graduate Program Director</b> , Department of Science and Technology Studies, Rensselaer Polytechnic Institute
July 2007-June 2013	<b>Assistant Professor</b> , Department of Science and Technology Studies, Rensselaer Polytechnic Institute

## PUBLICATIONS

### *Books*

Kimura, Aya H. and **Abby Kinchy** (2019) *Science by the People: Participation, Power, and the Politics of Environmental Knowledge*. New Brunswick: Rutgers University Press.

**Kinchy, Abby J.** (2012) *Seeds, Science, and Struggle: The Global Politics of Transgenic Crops*. Cambridge: The MIT Press.

Kleinman, Daniel Lee, **Abby J. Kinchy** and Jo Handelsman, eds. (2005) *Controversies in Science and Technology, Volume One: From Maize to Menopause*. Madison, WI: The University of Wisconsin Press.

### *Refereed Journal Articles and Book Chapters*

- Walls, Dan, **Abby Kinchy**, Tal Margalit, Mónica D. Ramírez-Andreotta, and Salvatore Engel-Di Mauro (2022) "Confronting legacy lead in soils in the United States: Community-engaged researchers doing undone science." *Environmental Science & Policy* 128: 165-174.
- Blacker, Sarah, Aya H. Kimura, and **Abby Kinchy** (2021). "When citizen science is public relations." *Social Studies of Science* 51, no. 5: 780-796.
- Lehman, Jessica, and **Abby Kinchy** (2021). "Bringing climate politics home: Lived experiences of flooding and housing insecurity in a natural gas boomtown." *Geoforum* 121: 152-161.
- Delborne, Jason A., Dresden Hasala, Aubrey Wigner, and **Abby Kinchy** (2020) "Dueling Metaphors, Fueling Futures: 'Bridge Fuel' Visions of Coal and Natural Gas in the United States." *Energy Research and Social Science* 61 (online first November 2019): 101350. <https://doi.org/10.1016/j.erss.2019.101350>.
- Kinchy, Abby** (2020) "Contentious Baselineing: The Politics of 'Pre-Drilling' Environmental Measures in Shale Gas Territory." *Environment and Planning E: Nature and Space* 3(1): 76-94.
- Kimura, Aya H. and **Abby Kinchy** (2020) "Citizen Science in North American Food Systems: Lessons Learned." *Citizen Science: Theory and Practice* 5(1): 4- DOI: <http://doi.org/10.5334/cstp.246>
- Kinchy, Abby** (2020) "STS Currents against the 'Anti-Science' Tide." *Engaging Science, Technology, and Society* 6: 76-80
- Kinchy, Abby J.**, Roopali Phadke, and Jessica M. Smith (2018) "Engaging the Underground: An STS Field in Formation." *Engaging Science, Technology, and Society* 4: 22-42.
- Kinchy, Abby**, and Guy Schaffer (2018) "Disclosure Conflicts: Crude Oil Trains, Fracking Chemicals, and the Politics of Transparency." *Science, Technology, & Human Values* 43(6): 1011-1038.
- Brasier, Kathryn J., Kirk Jalbert, **Abby J. Kinchy**, Susan L. Brantley, and Colleen Unroe (2017) "Barriers to sharing water quality data: experiences from the Shale Network," *Journal of Environmental Planning and Management* 60(12): 2103-2121.
- Breyman, Steve, Nancy Campbell, Virginia Eubanks, and **Abby Kinchy** (2017) "STS and Social Movements: Pasts and Futures" pp. 289-318 in the *Handbook of Science and Technology Studies, Fourth Edition*. Cambridge: The MIT Press.
- Kinchy, Abby** (2017) "Baseline Data and Democracy: How Participatory Water Monitoring Shapes Future Projections and Political Action in the Marcellus Shale Fracking Boom," *Science as Culture* (26)1, 88-110, DOI: 10.1080/09505431.2016.1223113

- Eaton, Emily and **Abby Kinchy** (2016) "Quiet Voices in the Fracking Debate: Ambivalence, Nonmobilization, and Individual Action in Two Extractive Communities (Saskatchewan and Pennsylvania)," *Energy Research & Social Science* 20: 22-30.
- Jalbert, Kirk and **Abby Kinchy** (2016) "Sense and Influence: Environmental Monitoring Tools and the Power of Citizen Science," *Journal of Environmental Policy & Planning* 18(3): 379-397.
- Kimura, Aya H. and **Abby Kinchy** (2016) "Citizen Science: Probing the Virtues and Contexts of Participatory Research," *Engaging Science, Technology, & Society* 2: 331-361.
- Kinchy, Abby**, Sarah Parks, and Kirk Jalbert (2016) "Fractured knowledge: mapping the gaps in public and private water monitoring efforts in areas affected by shale gas development," *Environment and Planning C: Government & Policy* 34(5): 879-899.
- Jalbert, Kirk, **Abby J. Kinchy**, and Simona L. Perry, (2014) "Civil society research and Marcellus Shale natural gas development: results of a survey of volunteer water monitoring organizations," *Journal of Environmental Studies and Sciences* 4(1): 78-86.
- Kinchy, Abby**, Kirk Jalbert, and Jessica Lyons (2014) "What is Volunteer Water Monitoring Good For? Fracking and the Plural Logics of Participatory Science," *Political Power and Social Theory* 27(2): 259-289.
- Kinchy, Abby J.** (2010) "Anti-Genetic Engineering Activism and Scientized Politics in the Case of 'Contaminated' Mexican Maize." *Agriculture & Human Values* 27: 505-517.
- Kinchy, Abby J.** (2010) "Epistemic Boomerang: Expert Policy Advice as Leverage in the Campaign against Transgenic Maize in Mexico," *Mobilization* 15(2): 179-198.
- Kinchy, Abby J.** (2009) "African Americans in the Atomic Age: Post-War Perspectives on Science, Technology and the Bomb, 1945-1960," *Technology & Culture* 50(2): 291-315.
- Kleinman, Daniel Lee, **Abby J. Kinchy**, and Robyn Autry (2009) "Local Variation or Global Convergence in Agricultural Biotechnology Policy? A Comparative Analysis," *Science and Public Policy* 36(5): 361-371.
- Kinchy, Abby J.**, Daniel Lee Kleinman, and Robyn Autry (2008) "Against Free Markets, Against Science? Regulating the Socio-economic Effects of Biotechnology," *Rural Sociology* 73(2): 147-179.
- Kleinman, Daniel Lee and **Abby J. Kinchy** (2007) "Against the Neoliberal Steamroller? The Biosafety Protocol and the Social Regulation of Agricultural Biotechnologies," *Agriculture & Human Values* 24: 195-206.

**Kinchy, Abby J.** (2006) "On the Borders of Post-War Ecology: Struggles over the Ecological Society of America's Preservation Committee, 1917-1946," *Science as Culture* 15 (1): 23-44.

**Kinchy, Abby J.** and Daniel Lee Kleinman (2003) "Organizing Credibility: Discursive and Organizational Orthodoxy on the Borders of Ecology and Politics," *Social Studies of Science* 33 (6): 869-896.

Vallas, Steven P., Daniel Lee Kleinman, **Abby Kinchy**, and Raul Necochea (2004) "The Future of Knowledge Work in Industry and Academia: Science, Professional Cultures, and the Public Good." In *Biotechnology: Between Commerce and Civil Society*, edited by Nico Stehr. New Brunswick, NJ: Transaction Books.

Kleinman, Daniel Lee and **Abby J. Kinchy** (2003) "Why Ban Bovine Growth Hormone? Science, Social Welfare, and the Divergent Policy Landscapes in Europe and the United States," *Science as Culture* 12 (3): 375-414.

Kleinman, Daniel Lee and **Abby J. Kinchy** (2003) "Boundaries in Science Policymaking: Bovine Growth Hormone in the European Union," *The Sociological Quarterly* 44 (4): 577-595.

#### *Non-Refereed Journal Articles and Book Chapters*

Harrison, Rebecca, **Abby Kinchy**, and Laura Rabinow (2017) "GE Food: A Changing Political Economy," in *Handbook of Political Economy of Science*. New York: Routledge.

Scott Frickel and **Abby Kinchy** (2015) "Geographies of Ignorance," *Routledge International Handbook of Ignorance Studies*, edited by Matthias Gross and Linsey McGoey. New York: Routledge.

**Kinchy, Abby** (2014) "Explaining Absolute Absences: A Critical Reply to Scott Frickel." *Social Epistemology Review and Reply Collective* 3(4): 24-29.

**Kinchy, Abby** (2014) "Political Scale and Conflicts over Knowledge Production: The Case of Unconventional Natural Gas Development," *Routledge Handbook of Science, Technology, and Society*, edited by Daniel L. Kleinman and Kelly Moore. New York: Routledge.

**Kinchy, Abby J.**, Simona Perry, Danielle Reinhardt, Kathryn Brasier, Richard Stedman, and Jeffrey Jacquet (2014) "The Impact of New Natural Gas Development on Rural Communities in North America," *Rural America in a Globalizing World: Problems and Prospects for the 2010s*. Morgantown: West Virginia University Press.

**Kinchy, Abby J.** and Simona L. Perry (2012). Can Volunteers Pick up the Slack? Efforts to Fill Knowledge Gaps about the Watershed Effects of Marcellus Shale Gas Development, *Duke Environmental Law and Policy Forum* 22(2): 303-340.

Delborne, Jason A. and **Abby J. Kinchy** (2008) "Genetically Modified Organisms," pp. 182-95 in *Battleground: Science and Technology, Volume 1*. S. Restivo and P.H. Denton (eds). Westport, CT: Greenwood Press.

**Kinchy, Abby J.** and Daniel Lee Kleinman (2005) "Democratizing Science, Debating Values: New Approaches to the Problem of 'Politicized' Science under the Bush Administration," *Dissent*, Summer 2005.

**Kinchy, Abby J.**, Daniel Lee Kleinman and Jo Handelsman (2005) "Introduction: From Maize to Menopause," pp. 3-20 in *Controversies in Science and Technology, Volume One: From Maize to Menopause*, D.L. Kleinman, A.J. Kinchy and J. Handelsman (eds.). Madison, WI: The University of Wisconsin Press.

### *Book Reviews*

**Kinchy, Abby** (2019) "Review of Environmental Expertise: Connecting Science, Policy, and Society," *Critical Policy Studies* (online first).  
<https://www.tandfonline.com/doi/abs/10.1080/19460171.2019.1687314>

**Kinchy, Abby** (2019) "Review of When the Hills are Gone: Frac Sand Mining and the Struggle for Community," *Contemporary Sociology* 48(2): 204-205.

**Kinchy, Abby J.** (2011) "Review of *Race, Rigor, and Selectivity in U.S. Engineering*," *Technology and Culture*, 52: 401-402.

**Kinchy, Abby J.** (2010) "Review of *States of Suspense: The Nuclear Age, Postmodernism, and United States Fiction and Prose*," *Technology and Culture* 51: 282-284.

### *Reports*

Kimura, Aya H. and **Abby Kinchy** (2018) "Citizen Science in Agri-Food Systems: Lessons and Recommendations," Report on the outcomes of a workshop at the University of Hawai'i-Mānoa, April 27-29, 2018, supported by the National Science Foundation (Award #1743138). Available at: <https://sih.berkeley.edu/research-project/citizen-science-in-agri-food-systems-lessons-and-recommendations/>

**Kinchy, Abby J.** (2013). "Public Perspectives on Contaminated Wastewater from Marcellus Shale Development," Final Report to the New York State Energy Research and Development Authority, under Contract # 17439.

### ***Blog Posts/Online Magazine Articles***

Blacker, Sarah, Aya H. Kimura, and **Abby Kinchy** (2022) "When collaboration becomes co-optation: Citizen Science as Public Relations," *LSE Impact Blog*, February 23, 2022, <https://blogs.lse.ac.uk/impactofsocialsciences/2022/02/23/when-collaboration-becomes-co-optation-citizen-science-as-public-relations/>

**Kinchy, Abby** and Jessica Lehman (2021) "Decarbonization is a Household Issue in Extractive Communities," *Fifteen Eightyfour Blog*, October 22, 2021, <https://www.cambridgeblog.org/2021/10/decarbonization-is-a-household-issue-in-extractive-communities/>

**Kinchy, Abby** and Dan Walls (2020) "Deadly Exposures: COVID-19 and the Slow Violence of Lead Exposure." *Toxic News* (June 19), <https://toxicnews.org/>

**Kinchy, Abby** (2016) "Mapping the Gaps: The Spatial and Social Inequalities of Water Monitoring," *FracTracker Alliance*, <https://www.fractracker.org/projects/water-monitor/spatial-and-social-inequalities/>

**Kinchy, Abby** (2016) "Lack of action from state and federal government means that community organisations are picking up the slack of monitoring the effects of fracking in the Northeast," *USAPP – American Politics and Policy Blog* (26 Feb 2016), <http://blogs.lse.ac.uk/usappblog/2016/02/26/lack-of-action-from-state-and-federal-government-means-that-community-organisations-are-picking-up-the-slack-of-monitoring-the-effects-of-fracking-in-the-northeast/>

**Kinchy, Abby** and Roopali Phadke (2016) "STS Underground: Images from an Emerging Subfield," *Backchannels* (22 Feb.) [http://www.4sonline.org/blog/post/sts\\_underground\\_images\\_from\\_an\\_emerging\\_subfield](http://www.4sonline.org/blog/post/sts_underground_images_from_an_emerging_subfield)

**Kinchy, Abby** (2015) "Identifying Bodies with Victor Toom: New Research in Science, Technology & Human Values," *Backchannels* (30 Dec.) [http://www.4sonline.org/blog/post/identifying\\_bodies\\_with\\_victor\\_toom\\_new\\_research\\_in\\_science\\_technology\\_huma](http://www.4sonline.org/blog/post/identifying_bodies_with_victor_toom_new_research_in_science_technology_huma)

### **GRANTS AND FELLOWSHIPS**

"Scholars Award: Following the Transnational Residues of the Lead Industry," National Science Foundation, Awarded \$94,361, July 1, 2021-June 30, 2022.

Durham University Institute of Advanced Study Fellowship, Spring Term 2021.

"Subvention of Science by the People: Participation, Power, and the Politics of Environmental Knowledge," \$2,000, November 2019, Rensselaer School of Humanities, Arts, and Social Sciences FLASH Grant.

"Standard Research Grant: Our Soil/Nuestros Suelos: Improving Methods of Participatory Soil Science through Interdisciplinary and International Collaboration," National Science Foundation, Award # 1922257. \$507,284, January 1, 2020-December 31, 2021.

"Doctoral Dissertation Research: Genetic Governance: An Interpretive Policy Analysis of Direct-To-Consumer Genetic Testing," National Science Foundation, Dissertation Research Improvement Grant (Hined Rafeh), Award # 1849607, \$16,020.00. April 1, 2019-May 31, 2020.

"Doctoral Dissertation Research: Cross-National Differences in Extreme Heat Governance: A Study of Rural New York and Austria," National Science Foundation, Dissertation Research Improvement Grant (Leo Bachinger), Award #1755012, \$19,440.00, February 15, 2018-January 31, 2019.

"Doctoral Dissertation Improvement Research: Socio-Political Causes and Effects of the Lack of Standards for Emerging Contaminants: The Case of Hoosick Falls and PFOA," National Science Foundation, Dissertation Research Improvement Grant (Laura Rabinow), Award #1754984, \$15,989.00, February 15, 2018-January 31, 2019.

"PPSR: Workshop on Citizen Science in Agrifood Systems: Exploring the Synergy between Science and Counter-expertise," National Science Foundation, SBE Office of Multidisciplinary Activities, \$32,929, July 1, 2017-June 30, 2018. Award # 1743138.

"STS Underground: Investigating the Technoscientific Worlds of Mining and Subterranean Extraction," National Science Foundation, SES-Science, Technology & Society Program, \$24,695, Sept. 2016-Aug. 2017. Award # 1632651. I co-authored this proposal with co-PIs Roopali Phadke (Macalester) and Jessica Smith (Colorado School of Mines) to support two research workshops in 2017 and 2018.

"Doctoral Dissertation Research: Social Movements Impacts on Urban Waste Systems," National Science Foundation, Dissertation Research Improvement Grant (Guy Schaffer), Award #1556311, \$13,200. March 2016-February 2017.

"Pollution Disclosure and Political Power in the United States and Canada: The Case of Unconventional Oil and Gas Extraction," Rensselaer School of Humanities, Arts, and Social Sciences Seed Grant, \$5,000, November 2013-August 2014.

"Doctoral Dissertation Research: Socio-Technical Practices in the Context of Marcellus Shale Water-Quality Science," National Science Foundation, Dissertation Improvement Grant (Kirk Jalbert), Award # 1331080, \$14,881, September 2013-August 2015.

“Mapping Knowledge Investments during the Marcellus Shale Gas Rush: A Study of Public, Private, and Academic Water Quality Monitoring Efforts,” National Science Foundation, Standard Grant, Award # 1126235, \$398,337, September 1, 2011-August 31, 2013.

“Public Perceptions of Natural Gas Extraction and Wastewater Treatment: A sociological study to accompany pilot testing of pre-treatment options to allow re-use of frac flowback and produced brine for oil field operations.” New York State Energy Research and Development Authority, \$50,000, March 2010-August 2012.

“Doctoral Dissertation Research: Toxic Chemicals, Environmental Organizations, and the Governance of Science and Technology in the EU and the US: The Case of Nanotechnology,” National Science Foundation, Dissertation Improvement Grant (Anna Lamprou), Award # 1027074, \$15,000, Sept. 1, 2010-Aug. 31, 2012.

Career Campaign Award, Rensselaer Polytechnic Institute, RAMP-UP Advance Initiative, awarded March 4, 2009, \$5,000 for research and professional development. Social Science Research Council International Dissertation Field Research Fellowship, 2005-2006.

Raymond J. Penn Scholarship, University of Wisconsin, 2005-2006.

Wisconsin Distinguished Graduate Fellowship Award, UW College of Agriculture and Life Sciences, 2005-2006.

National Science Foundation Dissertation Improvement Grant, 2005-2006.

Rural Sociological Society Dissertation Award, 2005

Latin American, Caribbean & Iberian Studies Program Field Research Grant (Tinker-Nave), University of Wisconsin, 2004.

Evelyn T. Crowe Scholarship, Department of Rural Sociology, 2001, 2002 and 2005.

### **ACADEMIC HONORS AND PRIZES**

Rensselaer School of Humanities Arts and Social Sciences, Award for Excellence in Graduate Teaching & Mentorship, 2019.

James M. Tien '66 Early Career Award for Faculty, Rensselaer Polytechnic Institute, 2011.



Hacker-Mullins Award for Best Graduate Student Paper, ASA Science, Knowledge and Technology Section, 2005 ("African Americans in the Atomic Age: Post-War Perspectives on Science, Technology and the Bomb, 1945-1960").

Genevieve Gorst Herfurth Award for Outstanding Research in Social Studies, University of Wisconsin, 2004-05 ("African Americans in the Atomic Age: Post-War Perspectives on Science, Technology and the Bomb, 1945-1960").

John H. Kolb Award for outstanding academic achievement in rural sociology, Department of Rural Sociology, University of Wisconsin-Madison, 2003.

Phi Beta Kappa, 1996.

### INVITED TALKS

Panelist: "Making Research More Participatory: Opportunities and Challenges," Durham University, Participatory Research Innovation and Learning Series, March 17, 2022.

"Science by the People: Confronting Pollution with Citizen Science," Durham University, Public Lecture, March 3, 2022.

"Environmental Justice Research with Citizen Science: The Case of Heavy Metals in Soils, Durham University, Sociology, Health and Social Theory Group, February 7, 2022.

"Households in Carbon Communities: A Crucial Dimension of Energy Transition," Durham University, Institute of Advanced Study, January 31, 2022.

"Community-Engaged Environmental Research." Keynote Address, Public Engagement with Science Workshop, University of Cincinnati, May 7, 2021.

<https://ucengagingscience.org/workshop/>

Panelist: "Arica: A Toxic Waste Scandal with 'Our Soil' Panel." The Sanctuary for Independent Media, North Troy Environmental Justice Film Festival, April 25, 2021.

<https://www.mediasanctuary.org/event/arica-a-toxic-waste-scandal-with-our-soil-panel/>

"Toward Justice in Participatory Environmental Research." Scientific Seminar, Cary Institute of Ecosystem Studies, April 22, 2021. <https://www.caryinstitute.org/events/toward-justice-participatory-environmental-research>

"Lead Poisoning and Environmental Justice." Frontiers in Biotechnology Seminar Series, Rensselaer Polytechnic Institute, September 9, 2020.

"Citizen Science for Social Justice." Federal Crowdsourcing and Citizen Science (FedCCS) Community of Practice, August 2020 Meeting (teleconference), August 27, 2020.

"Citizen Science for Social Justice." Citizen Science Association Ethics Working Group (teleconference), July 24, 2020.

"Citizen Science: Transformative Possibilities and Tricky Dilemmas." SUNY Environmental Science and Forestry, Syracuse, NY, February 13, 2020.

"Citizen Science: Transformative Possibilities and Tricky Dilemmas," Citizen Science Association Law and Policy Working Group (teleconference), January 9, 2020.

"Citizen Science for Environmental Sustainability." Presentation to the Rensselaer Board of Trustees, December 5, 2019.

"Ciencia Hecha por la Gente: Repensando críticamente la ciencia ciudadana ambiental." Universidad Alberto Hurtado, Santiago, Chile, June 5, 2019.

Presidential Panel: Science and Technology Studies in an Era of Anti-Science I: Perspectives on Science and Politics (panelist). Eastern Sociological Society Annual Meetings, Boston, MA, March 15, 2019.

"Absence of Evidence, Evidence of Absence: Conceptualizing Ignorance in Environmental Controversies." Georgia Institute of Technology, School of History and Sociology Speakers Series, September 17, 2018.

"Absence of Evidence, Evidence of Absence: Conceptualizing Ignorance in Environmental Controversies." University of Georgia Sociology Colloquium, September 15, 2018.

"Absence of Evidence, Evidence of Absence: Conceptualizing Ignorance in Environmental Controversies." Keynote address at the Workshop for the History of the Environment, Agriculture, Technology, and Science at the University at Albany, October 13, 2017.

"Barriers to Sharing Water Quality Data: Lessons from the Marcellus Shale Region," presented at the Disappearing Data Teach-In at Rensselaer on April 26, 2017.

Discussant for the "Science from the Margins" paper session at the annual meetings of the American Sociological Association, Seattle, WA, August 20-23, 2016.

"Citizen Science for Social Change: Theories, Hopes, and Political Realities," Keynote address at the STGlobal Conference, Washington, D.C., April 8-9, 2016.

"Genes out of Place: Conflicts over Transgene Flow in Mexico and Canada." Public webinar presentation for the National Academies of Sciences, Engineering, and Medicine, February 4, 2015.

"Worlds of Water Research at Rensselaer," participant in research roundtable, Rensselaer Polytechnic Institute, April 17, 2015.

"Life-style changes required to preserve the planet: A discussion of the Pope's encyclical on the environment" (panelist), Chapel + Cultural Center, Troy, NY, October 2, 2015.

"A Place for Fracking? Environment, Community, and the Arts" (panel discussion and poster display), Lafayette College, September 19, 2014.

"Seeds, Science, and Struggle," Rochester Institute of Technology, Rochester, NY, May 5, 2014.

"Seeds, Science, and Struggle," York College, York, PA, May 1, 2014.

"Saying No to Seed Use Restrictions," Bard College at Simon's Rock, Great Barrington, MA, April 23, 2014.

"Citizen Science: Who and What is it for?" Conceptualizing Environmental Exposure Workshop, Chemical Heritage Foundation and Drexel University, Philadelphia, PA, April 9-10, 2014.

"It's Not Just About Eating: Understanding Opposition to Genetically Engineered Crops," Westchester/Fairfield Seven Sister Alumnae Seminar, Stamford, CT, October 23, 2013.

"Watershed Knowledge Mapping Project: Investigating Efforts to Monitor the Water Quality Impacts of Marcellus Shale Development," Community Science Institute Volunteer Symposium, March 21, 2013.

"Perceptions of Natural Gas Development and Wastewater Treatment," New York State Energy Research and Development Authority "brown bag" talk, February 28, 2013.

"Perceptions of Natural Gas Extraction and Wastewater Treatment," New York Water Environment Association, New York, NY, February 5, 2013.

"Agriculture, Genetic Engineering, and Social Justice," Vassar College Conference on Food and Agriculture, Poughkeepsie, NY, October 6, 2012

"Sociology of Environmental Knowledge," Rensselaer Sustainability Forum, September 2012.

"Volunteers in the Field of Surface Water Monitoring: Strategies of Incorporation and Transformation," Political Sociology of Science Workshop, Madison, WI, June 1-2, 2012.

Panelist, "The Flaming Faucet: Fracking, Alternative Fuels, and Future Directions," University in the City Panel Series, Albany, NY, April 1, 2012.

"Polluted Maize and Fracked Water: The Politics of Civil Society Research," Colorado School of Mines, Hennebach Lecture Series, March 8, 2012.

"Monitoring Mexican Maize: Science, the State, and *Campeño* Resistance," Peace and Conflict Studies Conference, University of Toronto, January 27-29, 2012.

"Watershed Knowledge Mapping Project," Duke University, Environmental and Social Implications of Hydraulic Fracturing and Gas Drilling in the United States: An Integrative Workshop for the Evaluation of the State of Science and Policy, January 9-10, 2012

Panelist, "Crafting a Fulfilling Career Path That Makes a Difference in the World," Rensselaer Diversity and Women in Engineering Banquet, November 11, 2011.

Panelist, screening of *Gasland*, Rensselaer Sustainability Film Series, March 24, 2011.

"Genes out of Place: Science, Activism, and the Global Politics of Genetically Engineered Crops," Penn State University, Department of Agricultural Economics and Rural Sociology, November 5, 2010.

"Genetically Modified Organisms," Guest lecture, invited by Pamela S. Katz, J.D., Associate Professor of Legal Studies and Political Science, The Sage Colleges, Troy, NY, October 19, 2010.

"Solutions to Hunger," Oxfam Banquet (fundraiser), Rensselaer Polytechnic Institute, April 19, 2010.

"Marcellus Shale Development: Sociological Perspectives," Unitarian Universalist Church, Athens, PA, Talk sponsored by the Shale Network, April 12, 2010.

"Natural Gas Development, Community Conflicts, and Public Distrust: Preliminary Lessons from Pennsylvania." Invited talk, presented at the 29<sup>th</sup> Annual Meeting of the Independent Oil and Gas Association of New York, Amherst, NY, November 4-5, 2009.

"En Defensa de la Agricultura Libre de Transgénicos: Activismo Anti-Transgénicos y Ciencia en México y Canadá," Invited talk, presented at the Universidad Autonoma Metropolitana-Azcapotzalco, Department of Sociology, Mexico City, Mexico, December 13, 2007.

"U.S. Agricultural Subsidies: History, Current Policy and Effects on Rural Livelihoods," Presented at the Midwest Social Forum, Williams Bay, Wisconsin, June 4-6, 2004.

### RECENT CONFERENCE PRESENTATIONS

"When Citizen Science is Public Relations: Unpacking the Value of Participatory Research for Polluting Industries," co-authored with Aya H. Kimura and Sarah Blacker, paper selected for presentation at the annual meetings of the Society for Social Studies of Science, Prague (virtual), August 2020.

"All About That Baseline: The Politics of Ignorance about Pre-Fracking Water Conditions," paper selected for presentation at the annual meetings of the Society for Social Studies of Science, New Orleans, September 2019.

“Contentious Baselineing: The Politics of “Pre-Drilling” Environmental Measures in Shale Gas Territory,” paper selected for presentation in the Rural Sociology Regular Session at the Annual Meetings of the American Sociological Association, New York, NY, August 10-13, 2019.

“Pipelines and Baselines: The Politics of “Pre-Drilling” Environmental Measures in Shale Gas Territory,” presented at the workshop entitled Shifting Baselines, Altered Horizons: Politics, Practice, and Knowledge in Environmental Science and Policy at the Max Planck Institute for the History of Science in Berlin, Germany, June 21-22, 2018.

“Citizen Science and Food Justice,” (with Daniel Seel), presented at the annual meetings of the Society for Social Studies of Science, Boston, August 30-Sept. 2, 2017.

“Volunteers and Commercial Water Testing Companies in the Struggle to Reveal the Impacts of Fracking,” presented at the annual meetings of the Society for Social Studies of Science, Barcelona, Spain, August 31-September 3, 2016.

“Disclosure Conflicts: Crude Oil Trains, Frack Chemicals, and the Politics of Transparency,” (with Guy Schaffer and Wynne Hedlesky), presented at the annual meetings of the American Sociological Association, Seattle, WA, August 20-23, 2016.

“Power in Knowledge: The Politics of Citizen Water Monitoring in the Marcellus Shale Gas Field,” presented at the annual meetings of the American Sociological Association, Chicago, August 22-25, 2015.

“Pipelines and Baselines: Watershed Science in Shale Gas Territory,” presented at the “When Nature and Numbers (Don’t) Meet” symposium at the University of Wisconsin-Madison in April 2014.

“What is Volunteer Water Monitoring Good For? Fracking and the Plural Logics of Participatory Science.” Presented at the annual meetings of the Society for Social Studies of Science, October 2013 (with Kirk Jalbert).

“Citizen Science and Social Justice: The Case of Shale Gas ‘Fracking.’” Presented at the annual meetings of the Rural Sociological Society, New York, NY, August 2013.

“The Production of Ignorance about the Impacts of Shale Gas Development: A Study of Spatial Knowledge Gaps.” Presented at the annual meetings of the American Sociological Association, New York, NY, August 2013 (with Kirk Jalbert and Sarah Parks)

“Categories and Sources of Expertise about Transgenic Crops: Battles over ‘Marketability’ in Canada.” Presented at the annual meetings of the Society for Social Studies of Science, Cleveland, OH, November 2011.

"Knowledge Investments during the Marcellus Shale Gas Rush: A Study of Public and Private Efforts to Monitor Water Quality." Presented at the Political Sociology of Science and Technology conference, Troy, NY, May 2011 (with Simona Perry).

"Hope for sustainability, hype for natural gas: The emergence and significance of the 'bridge fuel' metaphor." Presented at the Political Sociology of Science and Technology conference, Troy, NY, May 2011 (with Jason Delborne and Aubrey Wigner).

"Fractious Citizens: Sociological Perspectives on the Hydraulic Fracturing Controversy." Presented at the American Association for the Advancement of Science Annual Meeting in Washington, D.C., February 20, 2011.

"Genes out of Place: Resisting Genetic 'Contamination' in Canadian Agriculture." Presented at the annual meeting of the Canadian Anthropological Society, Montreal, Canada, June 2, 2010.

"From 'Risk' to 'Markets': Framing GE Crops as a Marketing Issue in Canada." Presented at the annual meeting of the Rural Sociological Society, Atlanta, GA, August 12-15, 2010.

"The Justice of 'Clean' Energy: Natural Gas, Rural Communities, and Questions about Water Pollution." Presented at the annual meeting of the American Sociological Association, Atlanta, GA, August 14-17, 2010.

"Governance across Boundaries: Transnational and Transgenic Flows of Genetically Engineered Crops." Presented at the Joint Annual Meeting of the Agriculture, Food and Human Values Society (AFHVS) and the Association for the Study of Food and Society (ASFS), State College, PA, May 28-31, 2009.

"Anti-GE Activism and Scientized Politics in the Case of 'Contaminated' Mexican Maize." Presented at the annual meeting of the Rural Sociological Society, Madison, WI, July 30-August 2, 2009.

"Governing Environmental Flows: The Case of Genetically Engineered Crops." Presented at the annual meeting of the American Sociological Association, San Francisco, CA, August 7-12, 2009.  
"Knowledge and Neoliberalism: The Case of Natural Gas "Fracing" in the Northeastern United States." Presented at the annual meetings of the Society for Social Studies of Science, in Washington, D.C., October 28-31, 2009.

"Framing Contamination, Forging Coalitions: Transnational Networks in Defense of GE-Free Food and Agriculture," Presented at the American Anthropological Association meetings, November 2008.

"Scientific Knowledge and Mobilization of Grassroots Struggle: The Mexican Movement 'In Defense of Maize'," Presented at the annual meetings of the American Sociological Association, New York, NY, August 11-14, 2007.

"Scientific Boundaries across the Border: A Consideration of Kelly Moore's Political Sociology of Science and Social Movements beyond the U.S. Context," Presented at the annual meetings of the Society for Social Studies of Science, Montreal, Canada, October 11-13, 2007.

"The politics of 'uncertainty': How can STS contribute to policy debates about ag-biotech?" Presented at the annual meetings of the Society for Social Studies of Science, Montreal, Canada, October 11-13, 2007.

### **PROFESSIONAL CONFERENCES AND WORKSHOPS ORGANIZED**

STS Underground Symposium: Petrochemicals and Citizen Science, September 5, 2019, Tulane River and Coastal Center at the ByWater Institute, New Orleans.

Making Sense of the Underground, August 27-28, 2018, University of Wollongong, Australia.

Workshop on Citizen Science and the Food System, April 26-28, 2018, University of Hawaii, Honolulu, HI

STS Underground: Investigating the Technoscientific Worlds of Mining and Subterranean Extraction, February 5-7, 2017, Colorado School of Mines, Golden, CO

### **CONFERENCE SESSIONS ORGANIZED**

"Soil Sensing: Methods, Politics, and Experience." Three open sessions co-organized with Sebastian Ureta and Dan Walls for the annual meetings of the Social Studies of Science, Toronto (virtual), October 2021.

"Changing Terrains of Carbon and Climate." Open session co-organized with Jessica Lehman for the annual meetings of the Social Studies of Science, Toronto (virtual), October 2021.

"STS Underground: Geoethics, Resources for Renewable Energy, and Emerging Uses of Underground Space." Three sessions co-organized with Roopali Phadke, Alena Blecher, and Jessica Smith at the annual meetings of the Society for Social Studies of Science, Prague (virtual), August 2020.

"Citizen Science, Law, and Policy." Two open sessions co-organized with Aya Kimura at the annual meetings of the Society for Social Studies of Science, New Orleans, September 2019.

"STS Underground." Three open sessions co-organized with Jessica Smith and Roopali Phadke at the annual meetings of the Society for Social Studies of Science, New Orleans, September 2019.

"STS Underground." Three open sessions co-organized with Roopali Phadke at the annual meetings of the Society for Social Studies of Science, Sydney, Australia, August 2018.

"Tensions and Challenges for Environmental Citizen Science." Two open sessions co-organized with Aya Kimura at the annual meetings of the Society for Social Studies of Science, Boston, MA, August 2017.

"STS Underground: Ignorance and Invisibility in the Worlds of Mining and Underground Extraction." Two open sessions co-organized with Jessica Smith, annual meetings of the Society for Social Studies of Science, Barcelona, Spain, August 2016.

"STS Underground: Investigating the Technoscientific Worlds of Mining and Subterranean Extraction." Two open sessions co-organized with Roopali Phadke, annual meetings of the Society for Social Studies of Science, Denver, CO, November 11-14, 2015.

"Understanding the Politics of Expertise in Policy Domains." Session co-organized with Shobita Parthasarathy, annual meetings of the Society for Social Studies of Science, Cleveland, OH, November 2011.

"Energy Controversies and Conflicts." Session co-organized with Shobita Parthasarathy, annual meetings of the American Sociological Association, Las Vegas, NV, August 2011

"Engineering Canada: Science, Communities, and the Politics of Biotechnology." Session co-organized with JoAnn Jaffe, annual meeting of the Rural Sociological Society, Atlanta, GA, August 12-15, 2010.

## **POSTER AND MULTIMEDIA PRESENTATIONS**

Watershed Knowledge Mapping Project website (includes original maps and research findings).  
<http://www.watershed-mapping.rpi.edu/>

"Watershed Knowledge Mapping Project: Are efforts to monitor the water quality impacts of shale gas development evenly distributed across affected counties?" Poster presented at the 2nd Annual Shale Network Workshops, Penn State University, May 2013.

"Watershed Knowledge Mapping Project," slide show featured at the Sensing Environments EarthWeek Festival, RPI Sustainability Research Network, April 2013.



“Watershed Knowledge Mapping Project: Preliminary Survey Results,” poster presented at the Multi-State Marcellus Shale Research Conference, Moon Township, PA, May 30-31, 2012.

“What are the social forces that shape knowledge about the impacts of industrial energy activities on the environment?,” poster presented at the NYSTAR Center for Future Energy Systems poster session, Fall 2011.

## PROFESSIONAL AFFILIATIONS AND SERVICE

### *National Service*

Elected Member of the Executive Council of the Society for Social Studies of Science, 2013-2016.

Elected Member of the Council of the Science Knowledge and Technology Section of the American Sociological Association, 2009-11.

### *Editorial Position*

Editor, *Backchannels* (Society for Social Studies of Science blog), 2016

### *Editorial Boards*

*Engaging Science, Technology, and Society*, 2014-2021

*Contemporary Sociology*, 2014-2016

Advisory Board Member, Critical Environments series, University of California Press, 2018-present

### *Memberships*

American Sociological Association

Society for Social Studies of Science

Citizen Science Association

### *Community and Public Service*

Oakwood Community Center, Troy, NY. Board Member, 2013-14, Board Vice-President, 2014-2015, Board President 2016.

## UNIVERSITY SERVICE

### *Service to Rensselaer Polytechnic Institute*

- Faculty Senate, HASS Representative, Fall 2020-present
- Folsom Library Faculty Representative for STS, September 2018-December 2021
- Faculty Academic Board, May 2016-December 2021
- Rensselaer Interdisciplinary Excellence in Sustainability Studies Task Force, 2012-2013.

*Service to the School of Humanities, Arts, and Social Sciences at Rensselaer*

- HASS Faculty Council and Curriculum Committee, Representative of Science and Technology Studies Department, Fall 2008-Fall 2010, and Fall 2013.
- Search Committee for STS Department Head, 2014-2015
- HASS Flash Grant Proposal Review Committee, Fall 2014, Fall 2015, Fall 2016
- Humanities, Arts, Architecture, and Social Sciences Fellowship Proposal Review Committee, Spring 2015, Spring 2017

*Service to the Department of Science and Technology Studies at Rensselaer*

- Undergraduate Programs Director, July 2019-June 2021
- Chair, Search Committee for Sustainability Lecturer, 2018-19
- Chair, Undergraduate Curriculum Committee, July 2017-June 2021
- Graduate Program Director, July 2014-June 2017
- STS Website and Recruiting Materials Coordinator, 2016
- Design, Innovation, and Society Faculty Search Committee, 2016
- STS Brown Bag Coordinator, Fall 2014-Fall 2015
- Steering Committee for STS BS Program, Chair, Spring 2102-Summer 2013.
- Comprehensive Exam Committee: Chair, 2012, 2013; Member, 2011, 2018.
- Admissions Committee, 2012-2013
- STS Undergraduate Curriculum Committee, Fall 2008 – Summer 2013
- Faculty Search Committee, Spring-Summer 2012
- Ad Hoc Graduate Exam Reform Committee, 2011
- STS Sustainability Studies Working Group, Fall 2008-2012.
- STS Colloquium Committee, Faculty Liaison, Fall 2008 – 2011
- STS Policy Exam Committee, Fall 2007

***New major development***

Sustainability Studies: Contributed to designing and seeking approval for the new minor and major in Sustainability Studies, Fall 2008-Spring 2012.

Design, Innovation, and Society: As Chair of the Undergraduate Curriculum Committee, oversaw a major redesign of the DIS curriculum that was necessary in order to accommodate the Arch and the changing requirements of our most common dual major, Mechanical Engineering. Fall 2017-Spring 2019.

***New minor development***

As chair of the Undergraduate Curriculum Committee, led the STS Department's development of four new minor degree programs, launched in 2019-20: Public Health, Law and Policy, Global Studies, and History.

## TEACHING

### *Undergraduate Courses*

Investigating Society  
Research Design  
Senior Project  
Food, Farms, and Famine  
Environment and Society  
Century of Environmental Thought  
American Society and *The Wire*  
Product Design and Innovation Studio II  
Sociology of Gender

### *Graduate Courses*

Science and Technology Policy  
Community-Engaged STS  
Research Methods in STS  
Science, Technology, and Social Movements  
Concepts in Science and Technology Studies  
Professional Development Seminar  
Institutionalist Approaches in STS

## GRADUATE MENTORING

### **Dissertation Chair – In Progress**

Hined Rafeh, *Genetic Screening at Home: Interpretive Policy Analysis of Direct-to-Consumer Genetic Testing*. Anticipated graduation August 2022.

Nathaniel (Bucky) Stanton, *The Cultural Politics of the Arkadian Underground: Archaeological Pasts, Energy Futures, and Imaginaries of Late Modernity*. Anticipated graduation May 2023.

### **Dissertation Chair – Completed**

Leo Bachinger, *Extreme Heat Governance for Rural Agricultural Communities*. Graduation August 2020.

Rebecca Jablonksy, *Mindful, Technically: Mindfulness Meets Digital Technology*. Graduation August 2020.

Laura Rabinow, *Persistent: Why New York State and the United States Still Don't Regulate PFOA*. Graduation August 2019.

Guy Schaffer, *Building Utopias with Tomorrow's Trash: A Study of Projected Futures and Distributed Infrastructure Design in the New York City Waste Stream*. Graduation August 2016

Kirk Jalbert, *Promising Data for Public Empowerment: A Study of Grassroots Water Monitoring Practices for Pollution from the Natural Gas Industry*. Graduation August 2015

Sean Ferguson, *Plastics without Petroleum: The Politics of 'Green' Bioplastics in the United States*. Graduation December 2012

Anna Lamprou, *Toxic Chemicals, Environmental Organizations, and the Governance of Science and Technology in the EU and the US: The Case of Nanotechnology*, Graduation December 2012

### **Committee Member – In Progress**

Alex Jenseth, *Critical Minerals and the Inverted Minescape*, Anticipated Graduation May 2023.

Misria Shaik Ali, *Becoming Irradiated*, Anticipated Graduation May 2022.

Christopher Caulfield, *Managing Stigmatized Identities of Opioid Use During COVID19: An Ethnography of Clinicians and Patients Negotiating the Opioid Crisis During Pandemic*. Anticipated graduation May 2022

### **Committee Member - Completed**

Maria Michails (Arts), *Cross-Border Interludes: Entanglements of Socially Engaged Art Practice*. Graduation December 2020

Mara Dicenta, *Unsettling Nature: Science, Modernity, and De-Coloniality 'In the End of the World,'* Graduation August 2020

Nathalia Hernandez Vidal (Sociology, Loyola University), *The Generative Character of Socio-epistemic Resistance to the Corporate Seed Regime in Colombia: A study of La Red de Semillas Libres de Colombia*. Graduation May 2020

Colin Garvey, *Averting AI Catastrophe, Together? On the Democratic Governance of Epochal Technologies*. Graduation August 2019

Thomas DePree, *The Technopolitics of Cleaning Up the Grants Uranium District of Northwestern New Mexico*. Graduation August 2019

Kate Tyrol, *The Fat Subject in Transition*. Graduation August 2018

Pedro de la Torre, *Future Imaginaries, Environmental Stewardship, and the Politics of the Longue Duree at the Hanford Nuclear Reservation*. Graduation May 2017

Karin Patzke, *Valuing Constituency: Property Assessments, Land Management, and Environmental Stewardship in Central Texas*. Graduation May 2017

Ellen Foster, *Social and Material Practices in the 'Maker Movement': Feminist Hackers, the Fixers Collective, Library Makerspaces and the Politics of Inclusion*. Graduation May 2017

Kevin Fodness, *Disability & Cyberspace: The Politics of Inclusion and Exclusion in Web Development Groups*. Graduation May 2016

Dan Lyles, *Generative Contexts: Urban Gardening's Potential for Social Justice-Based STEM Education*. Graduation August 2016

Lauren Allen, *Learning to Respond to Climate Change: Leveraging Communities of Practice to Improve the Learning Ecology*. Graduation May 2016. University of Pittsburgh

James Wilcox, *Reimagining Energy Interventions: Policies, Practices, and Households in Transition*. Graduation August 2015

Taylor Dotson, *Communitarian Technology: Reconstructing Artifacts, Spaces and Systems for More Communal Ways of Being*. Graduation May 2015

Erin Lennox (Ecological Economics), *Shifting Peasant Livelihoods under Double Exposure to Climate Change and Economic Globalization*. Graduation December 2014

Logan Williams, *Moving Science from Below: Vision 2020, Socially Responsible Innovation Systems and Multilateral Circulation*. Graduation May 2013

Jessica Lyons, *The Enviroculturalist Framework: Merging Ecological Sustainability with Indigenous Resource Management*. Graduation August 2012

Nancy Sanhueza-Diaz (Multidisciplinary Science), *Political Ecology, Ecosystem Services, and Management of Cerro El Roble Natural Sanctuary in Central Chile*, Graduation December 2012 (co-advisor)

Nat Springer (Ecological Economics), *The Future of Agriculture in a Resource-Constrained World: A Scenario Analysis*, Graduation December 2011