

GWEN OTTINGER

Department of Politics
Department of Biodiversity, Earth and Environmental Science
Drexel University
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EDUCATION

Ph.D., Energy and Resources, University of California, Berkeley
M.A., Energy and Resources, University of California, Berkeley
B.S., Science, Technology, and Culture, Georgia Institute of Technology
B. Aerospace Engineering, Georgia Institute of Technology

POSITIONS

Drexel University

Professor, Dept. of Politics, and Dept. of Biodiversity, Earth and Environmental Science	2024 –
Professor, Dept. of Politics, and Ctr. for Science, Technology, and Society	2023 – 2024
Associate Professor, Dept. of Politics, and Ctr. for Science, Technology, and Society	2016 – 2023
Assistant Professor, Dept. of Politics, and Ctr. for Science, Technology, and Society	2014 – 2016

University of Washington-Bothell

Assistant Professor, School of Interdisciplinary Arts and Sciences	2010 – 2014
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Chemical Heritage Foundation

Research Fellow, Center for Contemporary History and Policy	2008 – 2010
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University of Virginia

Lecturer, Department of Science, Technology, and Society	2006 – 2008
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AWARDS AND FELLOWSHIPS

Fulbright Canada Research Chair in Science and Society, Institute for Science, Society, and Policy,
University of Ottawa, January – May 2022.

WPSA Best Paper in Environmental Political Theory Award for “Epistemic Justice in Definitions of EJ,”
2021.

Frederick Burkhardt Residential Fellowship for Recently Tenured Scholars, American Council of Learned
Societies (ACLS), 2020 – 2022.

Fellow, Center for Advanced Study in the Behavioral Sciences (CASBS) at Stanford University, 2020-2021.

Society for Social Studies of Science (4S) Making and Doing Prize, Honorable Mention, for “Meaning
from Monitoring,” 2018.

Society for Social Studies of Science (4S) Rachel Carson Prize for *Refining Expertise: How Responsible
Engineers Subvert Environmental Justice Challenges*, 2015.

John C. Haas Fellowship, Chemical Heritage Foundation, 2005 – 2006

Chancellor's Dissertation Year Fellowship, University of California, Berkeley, 2004 – 2005

CITRIS Social Science Dissertation Fellowship, University of California, 2002 – 2004

Jacob K. Javits Fellowship, US Department of Education, 1998 – 2002

RESEARCH GRANTS

Drexel Areas of Excellence and Opportunity, PI Steven May, co-PIs Megan Creighton and Yong-Jie Hu. "Responsible Manufacturing of Oxide Semi-Conductors," \$50,000, 2023-2024.

The Environmental Collaboratory. "FAIR Data for Just Adaptation: Promoting Environmental Justice in Climate Adaptation Policy by Improving Environmental Data Infrastructures," \$20,000, 2022-2024.

Alfred P. Sloan Foundation, co-PI Julieta Arancio. "International Development and Use of Open Science Hardware," \$220,428, 2021 – 2023.

The Eleventh Hour Project, co-PI Public Lab. "Updating and Archiving the Bucket," \$25,000, 2020.

Valero-Benicia Good Neighbor Steering Committee. "Air Watch Bay Area Maintenance and Upgrades," \$100,000, 2018 – 2022.

Faculty Scholarly and Creative Activity Award, Drexel University. "Here by Us Staged Reading," \$7,625, 2018.

Intel Corporation. "The Air and Me: Health Tracking with Air Quality Data," \$10,000, 2017 – 2018.

Intel Corporation. "Assessing Online Platforms for Community Environmental Data," \$13,500. Matching funds from a Drexel Research Co-op Award, \$7250. 2015 – 2016.

Early Career Development (CAREER) Award, National Science Foundation. "Environmental Justice and the Ethics of Science and Technology," \$515,800, 2014 – 2020.

Worthington Distinguished Scholar Award, University of Washington-Bothell. "Community-Based Air Monitoring: A Demand for Epistemic Justice?," \$16,400, 2013 – 2014

Collaboration Studio Grant, Simpson Center for the Humanities, University of Washington, co-investigators Tim Hargrave and Lauren Hartzell-Nichols. "Climate Ethics, Environmental Justice, and Wind Energy: Toward an Interdisciplinary, Multi-scale Framework," \$20,500, 2013 – 2014.

Biological Futures in a Globalized World Faculty Fellowship, University of Washington, \$10,000, 2011

Collaborative Undergraduate Research Grant, University of Washington-Bothell. "Environmental Justice and Alternative Energy Policy," \$3000, 2011 – 2012

Professors as Writers Program Writing Grant, University of Virginia, \$1000, 2007 – 2008

PUBLICATIONS

Books

2013 Gwen Ottinger, *Refining Expertise: How Responsible Engineers Subvert Environmental Justice Challenges*. New York: New York University Press.

- 2011 Gwen Ottinger and Benjamin R. Cohen, editors, *Technoscience and Environmental Justice: Expert Cultures in a Grassroots Movement*. Cambridge, MA: MIT Press, Urban and Industrial Environments Series.

Peer-Reviewed Articles

- 2024 Gwen Ottinger, "Refinery Air Watch: Enhancing Data Infrastructure for Environmental Justice," *Environmental Justice* 17(4).
<https://doi.org/10.1089/env.2023.0040>
- 2023 Gwen Ottinger, Kelly Bronson, and Dawn Nafus, "Clicks and Particulates: Value, Alienation, and Attunement as Unifying Themes in Big Data Studies," *Big Data & Society* 10(1).
<https://doi.org/10.1177/20539517231184891>
- 2023 Gwen Ottinger, "Careful Knowing as an Aspect of Environmental Justice," *Environmental Politics*.
<https://doi.org/10.1080/09644016.2023.2185971>
- 2022 Gwen Ottinger, "Becoming Infrastructure: Integrating Citizen Science into Disaster Response and Prevention," *Citizen Science: Theory and Practice*, 7(1), p.15.
- 2022 Gwen Ottinger, "Responsible Epistemic Innovation: How Combatting Epistemic Injustice Advances Responsible Innovation (and vice versa)," *Journal of Responsible Innovation*.
<https://doi.org/10.1080/23299460.2022.2054306>
- 2022 Gwen Ottinger, "Misunderstanding Citizen Science: Hermeneutic Ignorance in U.S. Environmental Regulation," *Science as Culture* 31(4): 504-529.
- 2017 Gwen Ottinger, "Crowdsourcing Undone Science," *Engaging Science, Technology, and Society* 3: 560-574.
- 2017 Gwen Ottinger, "Making Sense of Citizen Science: Stories as a Hermeneutic Resource," *Energy Research and Social Science* 31: 41-49.
- 2017 Gwen Ottinger and Elisa Sarantschin, "Exposing Infrastructure: How Activists and Experts Connect Ambient Air Monitoring and Environmental Health," *Environmental Sociology* 3(2): 155 – 165.
- 2014 Gwen Ottinger, Timothy Hargrave, and Eric Hopson, "Procedural Justice in Wind Facility Siting: Recommendations for State-led Siting Processes," *Energy Policy* 65: 662 – 669.
- 2013 Gwen Ottinger, Richard Worthington, Warren Gold, Kern Ewing, James Fridley, Rodney Pond, and Brooke Kiener, "Interdisciplinary CBR with Disciplinary Expertise: Bridging Two (or more) Cultures in Undergraduate Projects," *Currents in Teaching and Learning*, 5(1-2): 4 – 16
- 2013 Gwen Ottinger, "The Winds of Change: Environmental Justice in Energy Transitions," *Science as Culture* 22(2): 222 – 229.
- 2013 Gwen Ottinger, "Changing Knowledge, Local Knowledge, and Knowledge Gaps: STS Insights into Procedural Justice," *Science, Technology, and Human Values* 38(2): 250 – 270.
- 2012 Gwen Ottinger and Benjamin R. Cohen, "Environmentally Just Transformations of Expert Cultures: Toward the Theory and Practice of a Renewed Science and Engineering," *Environmental Justice* 5(3): 158 – 163.
- 2011 Gwen Ottinger, "Environmentally Just Technology," *Environmental Justice* 4(1): 81 – 85.
- 2010 Gwen Ottinger, "Constructing Empowerment through Interpretations of Environmental Surveillance Data," *Surveillance and Society*, 8(2): 221 – 234.

- 2010 Scott Frickel, Sahra Gibbon, Jeff Howard, Joanna Kepner, Gwen Ottinger, and David Hess, "Undone Science: Charting Social Movement and Civil Society Challenges to Research Agenda Setting," *Science, Technology, and Human Values*, 35(4): 444 – 473.
- 2010 Gwen Ottinger, "Buckets of Resistance: Standards and the Effectiveness of Citizen Science," *Science, Technology, and Human Values* 35(2): 244 – 270.
- 2009 Gwen Ottinger, "Epistemic Fencelines: Air Monitoring Instruments and Expert-Resident Boundaries," *Spontaneous Generations* 3(1): 55 – 67.

Book Chapters

- 2023 Gwen Ottinger, "Ouverture. L'inventivité épistémique et les dilemmes de la protestation," in *Vivre et lutter dans un monde toxique. Violence environnementale et santé à l'âge du pétrole*, edited by Renaud Bécot and Gwenola Le Naour. Seuil.
- 2020 Gwen Ottinger, "Citizen Science," in *The Routledge Encyclopedia of Citizen Media*, edited by Mona Baker, Bollette B. Blaagaard, Henry Jones, and Luis Pérez-González. Routledge.
- 2017 Gwen Ottinger, "Opening Black Boxes: Environmental Justice and Injustice through the Lens of Science and Technology Studies," pp. 89-100 in *Handbook of Environmental Justice*, edited by Ryan Holifield, Jayajit Chakraborty, and Gordon Walker. Routledge.
- 2017 Gwen Ottinger, "Reconstructing or Reproducing? Scientific Authority and Models of Change in Two Traditions of Citizen Science," pp. 351 – 363 in *The Routledge Handbook of the Political Economy of Science*, edited by David Tyfield, Rebecca Lave, Samuel Randalls, and Charles Thorpe. Routledge.
- 2016 Gwen Ottinger, Javiera Barandiarán, and Aya H. Kimura, "Environmental Justice: Knowledge, Technology, and Expertise," pp. 1029 – 1058 in *The Handbook of Science and Technology Studies, 4th Edition*, edited by Ulrike Felt, Clark A. Miller, Rayvon Fouché, and Laurel Smith-Doerr. Cambridge, MA: MIT Press.
- 2016 Gwen Ottinger, "Social Movement-Based Citizen Science." In *The Rightful Place of Science: Citizen Science*, edited by Darlene Cavalier and Eric B. Kennedy, 89-104. Tempe, AZ: Consortium for Science, Policy, and Outcomes.
- 2011 Gwen Ottinger, "Rupturing Engineering Education: Opportunities for Transforming Expert Identities through Community-based Projects," pp. 229 – 248 in *Technoscience and Environmental Justice: Expert Cultures in a Grassroots Movement*, edited by Gwen Ottinger and Benjamin R. Cohen. Cambridge, MA: MIT Press.
- 2006 Gwen Ottinger, "Belief in 'Cancer Alley': Church, Chemicals, and Community in New Sarpy, Louisiana," pp. 153 – 166 in *Dispatches from the Field: Neophyte Ethnographers in a Changing World*, edited by Andrew M. Gardner and David M. Hoffman. Long Grove, IL: Waveland Press.

Reviews

- 2024 Gwen Ottinger, "All I Ask of You: Considering *Mobilizing Hope: Climate Change and Global Poverty*," *Ethics, Policy & Environment* 27(1): 112-115.
<https://doi.org/10.1080/21550085.2024.2306116>
- 2023 Gwen Ottinger, "Fighting to Breathe: Race, Toxicity, and the Rise of Youth Activism in Baltimore by Nicole Fabricant," *Journal of the American Planning Association*.
<https://doi.org/10.1080/01944363.2023.2247819>

- 2022 Gwen Ottinger, "Why Does the State Allow Environmental Inequalities to Persist? Talking with Jill Lindsey Harrison," an interview for *Public Books*.
<https://www.publicbooks.org/environmental-justice-government-agencies-jill-lindsey-harrison/>
- 2015 Gwen Ottinger, "Comments," on Christopher F. Jones, *Routes of Power* in H-Environment Roundtable Reviews 5(9). <https://networks.h-net.org/jones-routes-power-roundtable-review-vol-5-no-9-2015>
- 2014 Gwen Ottinger, "Absence and Expectation," Response to Special Issue on "Absences," in *Social Epistemology Review and Reply Collective* 3(8): 10-12.
- 2013 Gwen Ottinger, "Peopling Petrochemical America," Review of Richard Misrach and Kate Orff, *Petrochemical America*, in *Southern Spaces*, 26 November 2013.
- 2012 Gwen Ottinger, Review of Edward Snajder, *Nature Protests: The End of Ecology in Slovakia*, in *Political and Legal Anthropology Review* 35(1): 147 – 148.

CONFERENCE ACTIVITIES

Papers Given

- 2024 "Instruments of Possibility: Affirmative and Transformative Hope in the Environmental Justice Movement." *Western Political Science Association*.
- 2023 "Careful Knowing as a Goal for Science Policy." *Society for Social Studies of Science*.
- 2023 "Sensing Tech and Moral Repair." *Making Sense of Sensor Environments*, Vrije Universiteit Amsterdam.
- 2023 "Moral Peril: Obstacles to Establishing Norms for Environmental Justice." *Western Political Science Association*.
- 2023 "All I Ask of You: Considering *Mobilizing Hope: Climate Change and Global Poverty*." *Western Political Science Association*.
- 2022 "From 'Right to Know' to 'Able to Use.'" *Deluge Data, Data Deluge Symposium*, New York University
- 2021 "Responsible Epistemic Innovation." *Society for Social Studies of Science*.
- 2021 "Epistemic Justice in Definitions of EJ." *Western Political Science Association*.
- 2019 "Knowing Well amid Inequality and Diversity." *Society for Social Studies of Science*.
- 2019 "Epistemic Innovation through the Lens of Participatory Parity." *Changing Political Economy of Research and Innovation Workshop*.
- 2019 "Playwriting as Slow Science." *Rightful Place of Science – 2*, Arizona State University.
- 2018 "Expert Capacity in Citizen Science Collaborations." *Society for Social Studies of Science*. (with Kristen Kepics)
- 2018 "Infrastructures for Socially Just Engineering." *Engineering, Social Justice and Peace*.
- 2017 "Irreparable Harms: Moral Relationships with Frontline Communities." *Society for Social Studies of Science*.
- 2015 "Epistemic Recognition and Democratic Legitimacy." *Society for Social Studies of Science*.

- 2014 "Expecting the Unexpected: Proactive, Participatory Knowledge Production for Next Generation Technology." *Society for Social Studies of Science*.
- 2014 "Epistemic Injustice, and What Engineers Can Do to Help." *Network for Engineering, Social Justice, and Peace*.
- 2014 "Accidental Regulation: How Refinery Disasters Spur New Environmental Rules." *American Society for Environmental History*.
- 2013 "Categorically Social: Expert Authority and the Re-interpretation of Citizen Participation in Science." *Society for Social Studies of Science*.
- 2011 "'The Cuyahoga River Doesn't Catch Fire Anymore': Representing Environmental Responsibility in the Petrochemical Industry." *Society for Social Studies of Science*.
- 2010 "Just Technology for Healthy and Just Societies." *Workshop for the Next Generation of Science and Technology Policy Leaders* (in conjunction with *The Rightful Place of Science?* Conference), Arizona State University.
- 2010 "The Borderland Science of Air Monitoring: Putting the Instruments of Environmental Justice in Historical Context." *American Society for Environmental History*.
- 2009 "Making Place-Based Technology Travel: The Story of the Buckets." *Society for the History of Technology*.
- 2009 "From Infallibility to Responsibility: The Reconstruction of Chemical Industry Expertise." *Society for Social Studies of Science*.
- 2008 "Supporting the Supporters: A Role for STS Engagement in Environmental Justice Activism." *STS in Action*, Pomona College.
- 2007 "Environmental Justice Engineers: Engaging Students and Social Movements through Activist-Inspired Term Projects." *Society for Social Studies of Scienc*.
- 2007 "'When You're Blown out of Bed, You Don't Forget': Petrochemical Accidents and Industry Obligation in St. Charles Parish, Louisiana." *Society for the Anthropology of North America*.
- 2006 "But for Buckets: Regulatory Standards and the Undoing of Citizen Science." *Society for Social Studies of Science*.
- 2005 "Being a Good Neighbor: The Liberal Logic of Dialogue in Relations between Petrochemical Facilities and their Residential Neighbors." *American Anthropological Association*.
- 2005 "Down-to-Earth Authorities: Establishing Expertise and Responsibility in Community Advisory Panels." *Society for Social Studies of Science*.
- 2003 "'Representative Data': Strategies for Monitoring Air Quality in Norco, LA." *Society for Social Studies of Science*.
- 2001 "Expert-Led Participation: Scientific Authority and the (Changing) Meanings of the Public's Role in Environmental Responsibility." *Taking Nature Seriously*, Eugene, Oregon. (With Reuben Deumling)
- 2000 "Understanding Public/Expert Relations: A Critique of Current Approaches to the 'Public Understanding of Science.'" *Society for Social Studies of Science/European Association for Studies of Science and Technology*.

2000 “Being Informed: Complexity of Socio-technical Systems in the Construction of Risk and Safety.” *Social Construction of Risk and Safety Workshop*, Kolmården, Sweden, 2000. (With Alexandra von Meier)

1999 “Reconstructing Science through Science Education.” *Society for Social Studies of Science*.

Panels Organized

2023 Next Generation Intersections of STS and Public Policy. With Shobita Parthasarathy and Jason Delborne. *Society for Social Studies of Science*

2015 International Perspectives on Environmental Justice and STS. With Javiera Barandiarán. *Society for Social Studies of Science*.

2013 Not Just Participation, Influence: Rethinking the Power Relations between Academic and Extramural Science. With Rebecca Lave. *Society for Social Studies of Science*.

2011 Temporalities of Technoscientific Ethics. *Society for Social Studies of Science*.

2011 Supporting Non-Academic Careers from within the Academy: A Roundtable Discussion. *Society for Social Studies of Science*.

2010 Technology and the Development of Environmental Sciences. With Kristoffer Whitney. *American Society for Environmental History*.

2009 Contemporary Constructions of Expertise. *Society for Social Studies of Science*.

2007 Technological Disasters: Memory and Imagination. *Society for the Anthropology of North America*.

2003 Environmental Representations. *Society for Social Studies of Science*.

1999 Constituting Relations between Science Studies and Science Education. *Society for Social Studies of Science*.

INVITED LECTURES

Engineering’s Hardest Problem. Interdisciplinary Training in Data Driven Soft Materials Research and Science Policy Symposium, University of Pennsylvania, May 2024

Moral Authority for Rabble-Rousers: How Engagement with Science Makes Activists Deserving of Environmental Protection. Theory of Science and Science and Technology Studies Seminar, University of Gothenburg, April 2023.

Innovations for Environmental Justice: Leveraging STS + Political Theory to Craft More Sustainable Futures. School for the Future of Innovation in Society, Arizona State University, March 2023.

Getting the Goals Right: Reparative Justice through Citizen Science. College of Architecture and Planning, University of Colorado Denver, February 2023.

Putting the Access into ‘Open Access.’ Keynote Presentation, Drexel University Open Access Week, October 2022.

Misunderstanding Citizen Science. Royal Canadian Institute of Science and the Institute for Science, Society, and Policy, University of Ottawa, February 2022.

- Epistemic Injustice and Community Science. Building a Global Network for Community Science Workshop, Aspen Institute Science & Society Program, Villanova University, and University of Pennsylvania, May 2021.
- Success in Community-Driven Science. Public Engagement with Science Conference, Michigan State University, September 2020.
- Recognizing Epistemic Innovation in Citizen Science. Science and Technology Studies Network, Temple University, February 2020.
- Expanding the Definition of Environmental Justice. Earth and Environment Light Lunch Series, Franklin and Marshall College, January 2020.
- Community Contributions to Health Knowledge: From “Citizen Science” to “Epistemic Intervention.” Keynote Lecture, “In the Shadow of the Petrochemical Smokestack: Chemical Corridors and Environmental Health” International Conference, Lyon, France, November 2019.
- Recognizing Innovation in Community-Driven Inquiry. Center for Research and Interdisciplinarity Paris, November 2019.
- Science for Environmental Justice: Amplifying Organizing. University of Pennsylvania Symposium on Environmental Justice and Health Disparities in the U.S., Philadelphia, PA, October 2019.
- Designing Information Infrastructures for Environmental Justice. Google Earth Engine Research Group, April 2019.
- Dilemmas of Data for Environmental Justice. Distinguished Lecture Series, Department of Engineering and Society, University of Virginia, November 2018.
- Dilemmas of Data for Environmental Justice. “Thinking Space” Seminar Series, School of Geosciences, University of Sydney, August 2018.
- From Sensing to Sense-Making: Dilemmas of Data in Citizen Science. Center for Community and Citizen Science, University of California, Davis, April 2018.
- Infrastructures for Engineer-Allies. Energy and Resources Group Colloquium, University of California, Berkeley, March 2018.
- Citizen Science: Key Questions for Practitioners. Workshop for Community-Based Learning, Johns Hopkins University, March 2018.
- From Sensing to Sense-Making: The Next Frontier for Citizen Science. Nelson Distinguished Lecture Series, Harvey Mudd College, October 2017.
- Information Infrastructures for Environmental Justice. National Yao-Ming University, Institute of Science, Technology, and Society, May 2017.
- Information Infrastructures for Environmental Justice. Keynote Presentation, *Toxic Expertise* Workshop, Warwick University, May 2017.
- Information Infrastructures for Environmental Justice. Georgia Institute of Technology, Serve Learn Sustain Lecture Series, March 2017.
- Crowdsourcing Undone Science. Brown University, Superfund Research Program, March 2017.
- The Power of Datum. Intel Labs, August 2016.
- Cutting through Environmental Conflict: An Experimental Approach. Lehigh University, January 2016.

Accidental Regulation?: The Role of Technological Development in Shaping Regulatory Response to Refinery Disasters. University of Pennsylvania, History and Sociology of Science Colloquium, February 2015.

Addressing “Unintended Consequences” through Participatory, Proactive Knowledge Production. Virginia Polytechnic Institute and State University, Science and Technology in Society Seminar Series, December 2014.

Citizen Science in Two Cities: How Social Capital and Technological Choice Shape the Influence of Community-Based Air Monitoring. University of Washington, Geography Department Research Colloquium, November 2013.

The Biopolitics of the Fenceline. University of Washington-Bothell, Interdisciplinary Arts and Sciences Research Colloquium, May 2011.

Oxbows and Eddies: Understanding How Community-Based Air Monitoring Has Affected Environmental Policy and Practice. Indiana University Sawyer Seminar – “Rupture and Flow: The Circulation of Technoscientific Facts and Objects,” April 2011.

Black Boxes and Clear Buckets: Environmental Justice and the Politics of Scientific Instruments. University of Pennsylvania, March 2010.

On Black Boxes and Clear Buckets: The Politics of Air Monitoring Instruments in the Environmental Justice Movement. Georgia Institute of Technology, April 2009.

Black-Boxing Citizen Science: The Evolution of Community-Friendly Air Monitors in the Environmental Justice Movement. National Museum of American History, Smithsonian Institution, July 2008.

Bucket Power? Community-based Air Monitoring and the Reassertion of Expert Authority. Olin College, April 2008.

Environmental Justice as a Design Criterion: The Evolution of Community-Friendly Air Monitors. University of Virginia and Chemical Heritage Foundation, Spring 2008.

Working Across Worlds as a Feature of Anthropological Engagement. Graduate Symposium on Engaged Anthropology, University of Virginia, October 2007.

Buckets of Resistance: How Standards Constrain Community-Based Air Monitoring’s Challenges to Expertise. Rensselaer Polytechnic Institute, Arizona State University, and University of Virginia, Spring 2007.

Engineering Responsibility: Air Monitoring and Ethical Obligations in Technical Practice. University of Virginia, June 2006.

“We Were Here First!” Temporal Narratives in Relations between Petrochemical Facilities and Their Residential Neighbors. Chemical Heritage Foundation, May 2006.

Just Science: Representations of Air Quality in the Quest for Environmental Justice. Pennsylvania State University, March 2006, and Wellesley College, December 2005.

Representing Responsibility: The Role of Citizen Science in Environmental Justice Controversy. University of California, Berkeley, April 2005.

Defining Public Space: The Petrochemical Industry’s Struggle to Engage Residential Neighbors in St. Charles Parish, Louisiana. Chemical Heritage Foundation, July 2003.

PUBLIC SCHOLARSHIP

Publications

- 2024 Gwen Ottinger, "Establish Data Collaboratives to Foster Meaningful Public Involvement," Federation of American Scientists, Day One Project. <https://fas.org/publication/data-collaboratives-public-involvement/>
- 2023 Shannon Dosemagen, John Favini, Katie Hoerberling, and Gwen Ottinger, "Beyond Compliance: Preliminary Findings from an Investigation of Climate and Flooding Data Systems in the United States." <https://search.issuelab.org/resources/43482/43482.pdf>
- 2022 Shannon Dosemagen, Katie Hoerberling, and Kate Wing, "Beyond Compliance: Preliminary Findings from an Investigation of Environmental Health Data Systems in the United States." <https://www.issuelab.org/resources/40831/40831.pdf>
- 2022 Gwen Ottinger, "[The Untapped Promise of Citizen Science for Environmental Policy](#)," Institute for Science, Society, and Policy Blog, April 12.
- 2021 Gwen Ottinger and Jennifer Britton, "[Let's Start Crafting Environmental Policy through an Anti-Racist Lens](#)," *The Philadelphia Inquirer*, November 8.
- 2020 Gwen Ottinger, "[Ensuring the Bucket's Continued Place in the Frontline Community Toolbox](#)," *Toxic News*, November 17.
- 2020 Gwen Ottinger, "[Second Drafts and Keeping your Vision in Revision](#)," *Write Now Philly*, February 26.
- 2020 Gwen Ottinger, "[Make your writing workshops effective](#)," *Write Now Philly*, January 22.
- 2019 Gwen Ottinger, "[Scientist Legislators Are No Cure for Bad Science Policy](#)," *Undark*, January 3.
- 2018 Gwen Ottinger, "[Making the Most of Air Monitoring: Strategies for Communities and Regulators Adopting Real-time Monitoring](#)."
- 2018 Air Watch Bay Area Working Group, "[Air Watch Bay Area: A Community Resource and a Model for Accessible Data](#)."
- 2017 Gwen Ottinger, "Lessons Learned from an Experiment in Infrastructuring," *Toxic News*, May 16. <https://toxicnews.org/2017/05/16/lessons-learned-from-an-experiment-in-infrastructuring/>
Translated into Madarin, Nov 7 at toxicnews.org.
- 2016 Gwen Ottinger, "A Missing Link in Making Meaning from Air Monitoring," *Backchannels* (Society for Social Studies of Science Blog), April 16. http://www.4sonline.org/blog/post/a_missing_link_in_making_meaning_from_air_monitoring
- 2016 Gwen Ottinger, "Technology that 'works for us and not against us'," *The Science, Knowledge, and Technology Section of the American Sociological Association Blog*, March 4. <https://asaskat.com/2016/03/04/working-for-all-of-us-we-need-democratic-control-over-technology/>
- 2016 Gwen Ottinger, "Citizen Engineers at the Fenceline," *Issues in Science and Technology*, Winter: 72-78.
- 2015 Gwen Ottinger, "Is it good science? Activism, values, and communicating politically relevant science." *Journal of Science Communication* 14 (2).

- 2014 Gwen Ottinger, "Groundbreaking Air Quality Study Demonstrates the Power of Citizen Science," *PLOS Blogs – Citizen Science*, November 6. <http://blogs.plos.org/citizensci/>
- 2014 Gwen Ottinger, "Residents must be integral part of any monitoring system," *Contra Costa Times*, September 5.
- 2014 Gwen Ottinger, "Creative Collaborations: How do two experts fashion one narrative?" *ThinkWritePublish.org*.
- 2012 Lee Gutkind, David Guston, and Gwen Ottinger, "To Think, To Write, To Publish: Science and Innovation Policy through the Looking Glass of Creative Nonfiction," *The Cairo Review of Global Affairs*, April.
- 2011 Gwen Ottinger with Rachel Zurer, "Drowning in Data," *Issues in Science and Technology*, Spring.
- 2011 Gwen Ottinger, *Community-Based Science: A Strategy for Achieving Environmental Justice and Improving Environmental Knowledge*, Studies in Sustainability White Paper Series. Philadelphia, PA: Chemical Heritage Foundation.
- 2010 Robert Brzozowski, Gwen Ottinger, Adam Cutler, Kate Zaidan, Douglas Lisk, and Matthew Hill, *Characterizing Airborne Particulates in Hunting Park*. Philadelphia, PA: Chemical Heritage Foundation.
- 2009 Allen A. Denio, Gwen Ottinger, and Jim Black, *Burning Biomass in Delaware? Energy Needs and Environmental Impacts*. Philadelphia, PA: Chemical Heritage Foundation.
- 2009 Gwen Ottinger, "When the Clunker is Greener," *Washington Post*, p. A17, August 4.
- 2008 Gwen Ottinger, "Assessing Community Advisory Panels: A Case Study from Louisiana's Industrial Corridor," Studies in Sustainability White Paper Series. Philadelphia, PA: Chemical Heritage Foundation.

Lectures and Interviews

- 2024 "Epistemic Justice and 'Fact-shaming,'" Episode 22 of *Science for the Anthropocene* podcast. <https://podcasters.spotify.com/pod/show/david-tyfield/episodes/Episode-22---Epistemic-justice-and-fact-shaming--with-Gwen-Ottinger-e2nh4p9>
- 2019 Invited presentation at SciLine Community Impacts of Oil and Gas Development Boot Camp, State College, PA, October 24.
- 2017 "Fenceline Monitoring." Invited presentation at the Shale and Public Health Conference (sponsored by the League of Women Voters), Pittsburgh, PA, November 13.
- 2017 "Dilemmas of Environmental Regulators." Presentation to the Taiwan Environmental Protection Agency, May 24.
- 2017 "Designing a Citizen Science Project." Presented to community activists and academics at National Kaohsiung Marine University (May 15) and to activists and environmental justice NGOs in Yunlin, Taiwan, May 17.
- 2014 "Managing the Unintended Consequences of Green Energy." Part of *Revisiting Frankenstein: Innovation and Contemporary Monsters*, presented by the Drexel Alumni Association, September 16.
- 2013 "Community-Industry Dialogue: An Effective Way to Resolve Environmental Justice Controversy?" Presentation at EPA Region 10, May 28.

- 2012 “Science as Storytelling, Scientists as Storytellers.” Radio interview featured on WORT’s *Perpetual Notion Machine*, November 29.
- 2011 “Community-Based Science.” Presentation to EPA Region 10 Environmental Justice Stakeholders Monthly Conference Call, December 8.
- 2011 “Getting Creative.” Presentation at The DuPont Summit 2011 (Science, Technology, and Environmental Policy: Pressing Issues, Little Time), December 3.
- 2010 “What’s in your Air? Low-tech Tools for Finding out.” Presentation at *Science on Tap*, Philadelphia Science Café, April.
- 2009 “Did Cash for Clunkers Make Cents?” Interview with Sea Change Radio, August 26.
- 2009 “What Citizens Know that Scientists Don’t: Environmental Justice and the Challenge of ‘Local Knowledge.’” Lecture at the American Association for the Advancement of Science, AAAS-CHF History Seminar, June.
- 2008 “Gwen Ottinger Studies Technology’s Role in Environmental Justice.” Interview for *Prototype Online: Inventive Voices* Podcast, Lemelson Center, Smithsonian Institution, August.

PEDAGOGY

Courses

Drexel University

- Innovation and Social Justice (undergraduate)
- Science, Technology, and Public Policy (undergraduate)
- Environmental Politics (undergraduate)
- Theories of Justice (undergraduate)
- Innovation and Social Justice (undergraduate)
- Citizen Science (graduate)
- Methods of Policy Analysis (graduate)
- Science and Technology Policy (graduate)

Interdisciplinary Arts and Sciences Program, University of Washington-Bothell

- Environmental Justice
- Science, Technology, and Society
- Interdisciplinary Inquiry
- Science, Expertise, Public Policy

Department of Science, Technology, and Society, University of Virginia

- Technology and Environmental Justice
- The Engineer, Ethics, and Society
- Western Technology and Culture

Curricular Activities

UW-Bothell Science, Technology, and Society Curriculum Area Working Group

UW Science Studies Network Graduate Certificate Steering Committee

UW-Bothell Undergraduate Research Steering Committee

Master of Arts in Policy Studies Curriculum Area Working Group

Environmental Studies Curriculum Area Working Group

Graduate Advising

Drexel University

Daniel Drexler, "Composites: A Maze of Twisty Passages, None Alike," June 2020. Master of Science in Science, Technology, and Society, Master's Project Committee Member.

Sarah Stalcup, "The Publication Practices of Social Movement-Based Citizen Scientists," June 2019. Master of Science in Environmental Policy, Master's Project Advisor.

Aster Parrott, "Energy Eventually? Big Science, Commercialization, and the Anomalous Case of Justificatory Policy Discourse around Fusion Energy Research in the U.S.," June 2016. Master of Science in Science, Technology, and Society, Master's Project Advisor.

University of Washington-Bothell

Bogdana Manole, "Strategies of Recognition: An Analysis of Two Haida Corporations," May 2014. Master of Arts in Cultural Studies (MACS) Capstone Advisor.

Bob Congleton, "The Tribal Energy Program and Enhancement of Capabilities," May 2013. Master of Arts in Policy Studies (MAPS) Capstone Advisor.

Alison McNee, "Disciplinary Policy in Southeast Seattle Schools," May 2013. MAPS Capstone Advisor.

Cynthia Reese, "An Analysis of Qualifications-Based Selection in Washington State," May 2012. MAPS Capstone Second Reader

Jody Rauch, "Place, Identity, and Environmental Justice." Fall 2012 Master of Arts in Cultural Studies Directed Reading.

Outside Reader

Kirk Jalbert, "Promising Data for Public Empowerment: Data Cultures and Infrastructure in the Macellus Shale Water Monitoring Community," August 2015. Ph.D. in Science, Technology and Society, Rensselaer Polytechnic University.

Undergraduate Advising

Drexel University

Annie Schillo, "The Fenceline Community Experience and Unmet Needs in Environmental Policy," October 2020. First place, Humanities and Social Sciences, College of Arts and Sciences Virtual Research Day.

Jordan Ramdial, "Disparate Impacts of Climate Change in the United States," September 2020.

University of Washington-Bothell

Shawn Friang, "Distribution of Wind Farms and Waste Facilities in the Pacific Northwest," May 2012. Recipient of a UWB Undergraduate Research Award.

SELECTED PROFESSIONAL SERVICE**University**

Member, Department of Politics Diversity, Equity, and Inclusion (DEI) Committee, 2023 – present

Member, Graduate Curriculum Committee, Drexel University College of Arts and Sciences, 2021 – present

Member, BEES Department Head Search Committee, Drexel University College of Arts and Sciences, 2023

Member, Program Performance Review Committee, Drexel University, 2022 – 2023

Member, Center for Science, Technology, and Society Program Alignment Review (PAR) committee, 2017-2018

Faculty Advisor, STS Collective, Drexel University, 2017-2018

Member, Science, Technology and Society Search Committee, Drexel University, 2016

Member, Sociology Department Head Search Committee, Drexel University College of Arts and Sciences, 2015

Coordinator, UW-Bothell Science, Technology, and Society Curriculum Area Working Group 2011 – 2013

Profession

Chair, Clay Morgan Book Prize Committee, Environmental Political Theory Group, Western Political Science Association, 2024

Advisory Editor, *Engineering Studies*, 2023 – present

Editorial Board Member, *Energy Research and Social Science*, 2018 – present

Panelist, Office of International Science and Engineering, National Science Foundation, 2023

Member, Planning Committee, National Academies of Science, Engineering, and Medicine (NASEM) Workshop on Advances in Multimodal Artificial Intelligence to Enhance Environmental and Biomedical Data Integration, 2023

Co-coordinator, Environmental Political Theory Virtual Community, Western Political Science Association, 2020 – 2021

Member, Making and Doing Prize Committee, Society for Social Studies of Science, 2019

Member, Society for Social Studies of Science (4S) Council, 2015-2018

- Chair, Publications Committee
- Member, 2016 and 2017 Infrastructure Award Committees
- Chair, 2017 and 2018 Edge Prize Committees
- Member, 2019 Carson Prize Committee

Editorial Board Member, *Citizen Science: Theory and Practice*, 2018 - 2021

Member, Clay Morgan Book Prize Committee, Environmental Political Theory Group, Western Political Science Association, 2018

Panelist, National Science Foundation Directorate for Social, Economic, and Behavioral Sciences

Program Committee Member, Society for Social Studies of Science 2011 Annual Meeting

Peer Reviewer for journals including *Energy Policy*; *Environmental Justice*; *Environmental Sociology*; *International Journal of Engineering, Social Justice and Peace*; *Journal of Environmental Policy and Planning*; *Social Studies of Science*; *Social Problems*; *Sociological Inquiry*; *Science as Culture*.

PROFESSIONAL MEMBERSHIPS

Society for Social Studies of Science

Western Political Science Association

International Network for Engineering Studies

Network for Engineering, Social Justice, and Peace

Science and Democracy Network