

Chelsea Schelly, Ph.D.
Assistant Professor of Sociology
Environmental and Energy Policy MS and PhD Programs
Department of Social Sciences
Michigan Technological University
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EMPLOYMENT

- 2017- Associate Professor of Sociology, Department of Social Sciences
Director of Graduate Studies, August 2017-
Michigan Technological University
- 2013-2017 Assistant Professor of Sociology, Department of Social Sciences
Environmental and Energy Policy Graduate Program
Michigan Technological University

EDUCATION

- 2013 Ph.D., Sociology, University of Wisconsin-Madison
Minor in Science and Technology Studies
Certificate in Humans and the Global Environment (NSF-IGERT)
Preliminary Examination Areas:
Comparative Historical Sociology; Social Theory
Advisor: Dr. Mustafa Emirbayer
- 2008 M.A., Sociology, Colorado State University
Certificate in College Teaching
Advisor: Dr. Peter Leigh Taylor
- 2005 B.A. with honors, Sociology, University of Wisconsin-Madison
Certificate in Environmental Studies

BOOKS (* indicates student collaborator)

Halvorsen, K.E., Schelly, C., Handler, R., and Knowlton, J., Eds. Forthcoming. *A Research Agenda for Environmental Management*. Under contract with Edward Elgar.

Schelly, C., and Banerjee, A.,* Eds. Forthcoming. *Environmental Policy and Pursuit of Sustainability*. Under contract with Routledge.

Schelly, C. 2017. *Dwelling in Resistance: Living with Alternative Technologies in America*. New Brunswick, NJ: Rutgers University Press. In Press.

Schelly, C. 2014. *Crafting Collectivity: American Rainbow Gatherings and Alternative Forms of Community*. Boulder CO: Paradigm Publishers. Reprinted by Routledge, 2016.

PUBLICATIONS (* indicates student collaborator)

Prehoda, E.,* Schelly, C., and Pearce, JM. (2017). U.S. Strategic Solar Photovoltaic-Powered Microgrid Deployment for Enhanced National Security. *Renewable & Sustainable Energy Reviews* 78: 167-175. <https://doi.org/10.1016/j.rser.2017.04.094>

Banerjee, Aparajita*, Chelsea L. Schelly, and Kathleen E. Halvorsen. (2017). Understanding public perceptions of wood-based electricity production in Wisconsin, United States: place-based dynamics and Social Representations. *Environmental Sociology*. Online first, available online

Schelly, C. and Banerjee, A*. (2016). Soft Energy Paths Revisited: Politics and Practice in Energy Technology Transitions. *Challenges* 7, 16, doi:10.3390/challe7020016

Kreuze, A*. Schelly, C, and Norman, E.S. (2016). To Frack or not to Frack: Perceptions of the Risks and Opportunities of High-Volume Hydraulic Fracturing in the United States. *Energy Research and Social Sciences* 20: 45-54. <http://dx.doi.org/10.1016/j.erss.2016.05.010>

Schelly, C. (2016) Understanding Energy Practices: A Case for Qualitative Research. *Society & Natural Resources* 29(6): 744-749. <http://dx.doi.org/10.1080/08941920.2015.1089613>

Schelly, C. (2015). What's Political about Solar Electric Technology? The User's Perspective. *Engaging Science, Technology & Society* 1: 25-46.

Schelly, C. (2015). Frameworks for Understanding and Promoting Solar Energy Technology Development. *Resources* 4: 55-69.

Schelly, C., Anzalone, G., Wijnen, B.*, and Pearce, J. (2015). Open-Source 3-D Printing Technologies for Empowered and Transformative Education: Bringing Additive Manufacturing to the Classroom. *Journal of Visual Languages and Computing* 28: 226-237.

Schelly, C. (2014). Are Residential Dwellers Marking and Claiming? Applying the Concepts to Humans Who Dwell Differently. *Environment and Planning D: Society and Space* 32(4): 672-688.

Schelly, C. (2014). Residential Solar Electricity Adoption: What Motivates, and What Matters? A Case Study of Early Adopters. *Energy Research and Social Science* 2: 183-191.

Schelly, C. (2014). Implementing Renewable Energy Portfolio Standards: The Good, the Bad, and the Ugly in a Two State Comparison. *Energy Policy* 67: 543-551.

Schelly, C., and Price, J. (2014). Utilizing GIS to Examine the Relationship Between State Renewable Portfolio Standards and the Adoption of Renewable Energy Technologies. *International Journal of Geo-Information* 3(1): 1-17.

Schelly, C., Cross, J.E., Franzen, W.S., Hall, P., & Reeve, S. (2012). How to Go Green: Creating a Conservation Culture in a Public High School through Education, Modeling, and Communication. *Journal of Environmental Education* 43(3): 143-161.

Schelly, C., Cross, J.E., Franzen, W.S., Hall, P., & Reeve, S. (2011). Reducing energy consumption and creating a conservation culture in organizations: A case study of one public school district. *Environment and Behavior* 43(3): 316-343.

Alatout, S. & Schelly, C. (2010). Rural Electrification as a "Bioterritorial" Technology: Redefining Space, Citizenship, and Power during the New Deal. *Radical History Review* 107: 127-138.

Schelly, C. (2010). Testing residential solar thermal adoption. *Environment and Behavior* 42(2): 151-170.

Zahran, S., Brody, S.D., Vedlitz, A., Lacy, M.G., & Schelly, C. (2008). Greening local energy: Explaining the geographic distribution of household solar use in the United States. *Journal of the American Planning Association* 74(4): 419-434.

BOOK CHAPTERS (* indicates student collaborator)

Kreuze., A.,* Sidortsov, R, and Schelly, C. (forthcoming). The Power of the Talking Points: Persuasive Power and the Challenges of Sustainable Natural Resource Development. To be published in Schelly, C., and Banerjee, A, Eds. *Environmental Policy and Pursuit of Sustainability*. Under contract with Routledge.

Banerjee, A.* and Schelly, C. (forthcoming). When one size does not fit all: Environmental Policy, Social Context, and Social Justice. To be published in Schelly, C., and Banerjee, A, Eds. *Environmental Policy and Pursuit of Sustainability*. Under contract with Routledge.

Schelly, C. and Banerjee, A.* (forthcoming). Environmental Policy and Pursuit of Just Sustainabilities. To be published in Schelly, C., and Banerjee, A, Eds. *Environmental Policy and Pursuit of Sustainability*. Under contract with Routledge.

Banerjee, A.*, and Schelly, C. (forthcoming). Social and political inequality as challenges in technology diffusion: Evidence from government-funded improved cookstove program in rural Mexico. To be published in Schelly, C., and Banerjee, A, Eds. *Environmental Policy and Pursuit of Sustainability*. Under contract with Routledge.

Schelly, C. (2016). Everyday Household Practice in Alternative Residential Dwellings: The Non-Environmental Motivations for Environmental Behavior. Pages 265-280 in *The Greening of Everyday Life: Challenging Practices, Imagining Possibilities*. Edited by John Meyer and Jens Kersten. New York: Oxford University Press.

Schelly, C. (2016). How Policy Frameworks Shape Environmental Practice: Three Cases of Alternative Dwelling. Pages 185-203 in *Putting Sustainability into Practice: Advances and Applications of Social Practice Theories*, edited by Emily Huddart Kennedy, Maurie J. Cohen, and Naomi Krogman. Cheltenham, UK: Edward Elgar.

Schelly, C. (2014). Transitioning to Renewable Sources of Electricity: Motivations, Policy, and Potential. Pages 62-72 in *Controversies in Science and Technology, Volume 4*. Edited by Daniel Lee Kleinman, Karen Cloud-Hansen, and Jo Handelsman. New York: Oxford University Press.

OTHER PUBLICATIONS

Schelly, C. (2016). Unconventional oil and gas: Influence of politics and proximity on perceptions. *Nature Energy*. Invited News & Views contribution. October 6: 1-2.

Schelly, C. (2016). Book Review: *Engaging the Everyday*, by John M. Meyer. *Contemporary Sociology* 45 (4): 483-484.

Acar, T., Chiles, R., Grainger, G., Luft, A., Mahajan, R., Peschanski, J., Schelly, C., Turowetz, J., and Wall, I.F. (2011). Inside the Wisconsin Occupation. *Contexts* 10(3): 50-55. Reprinted in *Inside, at Night – Origins of an Uprising*. (2012). Madison, WI: Tamarack Studio & Gallery.

Schelly, C. and Price, J.M. (2010). "Environmental Stewardship," in *Green Energy: An A-to-Z Guide*. Edited by Dustin Mulvaney. Sage Publications, Inc: Thousand Oaks, CA.

Schelly, C. (2010). Book Review: *In Defense of Food: An Eater's Manifesto*, by Michael Pollan. *Social Science Journal* 47: 468-470.

Schelly, C. (2009). Book Review: *Disrupting Science: Social Movements, American Scientists, and the Politics of the Military, 1945-1975*, by Kelly Moore. *Social Science Journal* 46: 218-220.

FUNDING AWARDS

Fall 2016 "Climate Change Mitigation via Reducing Household Food, Energy and Water Consumption: A Quantitative Analysis," NSF-INFEWS. David Watkins, PI, Chelsea Schelly, co-PI. Funding: \$2,983,358, 5 year grant.

Fall 2015 "Coupled Production-Consumption Systems for Climate Change Mitigation: Designing Equitable Food, Energy, and Water Conservation Strategies." National Science Foundation. David Watkins and Kathleen Halvorsen, PIs. Chelsea Schelly, Affiliated Faculty, Planning Committee. Total workshop support funding: \$47,200.

Summer 2015 Rural Sociological Society, Early Career Research Award
Proposal title: "Policies for Self-Provisioning: Understanding the Success of Alternative Rural Communities." Funding amount: \$2,500.00

- Summer 2015 Michigan Technological University's Research Excellence Fund Scholarship and Creativity Grant. Proposal title: "Policies for Self-Provisioning: Understanding Alternative Technology Use at Dancing Rabbit Ecovillage," Funding amount: \$4,219.00
- Fall 2013-Present National Science Foundation PIRE Project, "Sustainability, Ecosystem Services, and Bioenergy Development across the Americas," Michigan Technological University, Dr. Kathleen Halvorsen, PI. Chelsea Schelly, Senior Personnel
- Fall 2013 "Bringing Small-Scale, Distributed Solar Technology to Campus for Student Education, A Behavioral Research Program, and Technological Innovation" Michigan Technological University's Century II Campaign Endowed Equipment (C2E2) Fund. Awarded funding: \$5,000.
- 2010 – 2014 Environmental Protection Agency - Science To Achieve Results (STAR) Graduate Fellowship (EPA_F2009-STAR-13), FP917171
Research Category: "Science & Technology for Sustainability: Environmental \Behavior and Decision Making"
Project Title: "Residential Solar Technology Adoption: Motivations for Environmental Behavior and Experiences with Alternative Energy Systems"
- 2008 – 2012 Fellowship, National Science Foundation, CHANGE-IGERT Interdisciplinary Graduate Education and Research Traineeship: Certificate on Humans and the Global Environment, UW-Madison
- Spring 2012, Summer 2010, and Summer 2009: Graduate Student Research Support Holtz Center for Science and Technology Studies, UW-Madison

TEACHING AT MICHIGAN TECH

- Fall 2017 Science Technology and Society; Environmental Governance and Decision Making (graduate seminar)
- Summer 2017 Introduction to Sociology
Special Topics course: Racial Inequality in Contemporary America
- Spring 2017 Research Design (graduate seminar); Introduction to Sociology
Special Topics course: Racial Inequality in Contemporary America

Fall 2016	Science Technology and Society; History of Social Thought
Summer 2016	Introduction to Sociology, online summer session, Track B
Spring 2016	Introduction to Sociology; Ethnographic Research Methods
Fall 2015	Environmental Governance and Decision Making (grad. seminar)
Spring 2015	Research Design (graduate seminar); History of Social Thought Creative Canvas Course Contest (C-4) Winner. Received Recognition for Student Evaluations in top 10%.
Spring 2014	Social Inequality
Fall 2013	Introduction to Sociology, Two sections

TEACHING AWARDS

Springs 2015	History of Social Thought Michigan Tech Center for Teaching and Learning Creative Canvas Course Contest (C-4) Winner Course Also Received Student Evaluations in top 10%
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SELECT INVITED LECTURES

- "Researching Possibilities for Sustainability in Everyday Life," invited lecture to MTU
Alternative Energy Enterprise, March 2017
- "Researching Possibilities for Sustainability in Everyday Life," invited lecture to the Lake
Superior Stewardship Initiative Dinner and Dialogue, February 2017
- "Researching Possibilities for Sustainability in Everyday Life," invited lecture to the
Keweenaw Unitarian Universalist congregation, December 2016
- "Freedom From, Freedom To, and Finding Agreement for Social Change: Lessons
from Intentional Communities and Alternative Technology Adopters," First Saturday
Lecture at Trinity Episcopal Church, Houghton, MI, June 2016
- "Introduction to Ethnographic Research Methods," Guest lecture for Pavlis Honors
College Study Abroad Students Track A summer course, 2016 and 2017.
- "The Impacts of Dwelling in Alternative Community: Opportunities for Exploration,"
Michigan Technological University Geoseminar, April 2016
- "Introduction to ASPEN," Green Lecture Series, sponsored by the Michigan Tech
Green Campus Enterprise, October 2015

- "The Rainbow Way: Participation and Experience in Rainbow Gathering Culture,"
Michigan Technological University's Nexus: The Scholar and the Library series, March 2015
- "The Rainbow Way: Participation and Experience in Rainbow Gathering Culture,"
Houghton Fortnightly Club, Houghton, MI, February 2015
- "The Rainbow Way: Participation and Experience in Rainbow Gathering Culture,"
Colorado State University's visiting scholar series, November 2014
- "The Rainbow Way: Participation and Experience in Rainbow Gathering Culture,"
The Colorado College's visiting scholar series, November 2014
- "Technology, Nature & Society: Seeing the Social in the Material of Everyday Life,"
2013 Green Lecture Series, Houghton, MI, December, 2013

SELECT CONFERENCE PRESENTATIONS

- "Wind and solar power projects and energy justice: emerging patterns from peripheral countries," Aparajita Banerjee and Chelsea Schelly. To be presented at Energy Impacts 2017, July.
- "Assessing the Energy Justice Potential of Renewable Electricity: A Review of Current Applications." Aparajita Banerjee, Emily Prehoda, Roman Sidortsov, and Chelsea Schelly. To be presented at the 2017 Rural Sociological Society annual conference, July 2017
- "The Future of Energy as an Integrated Nexus: Embedding Energy in Direct and Indirect Household Service Provision," With Rachael Shwom, Kristin Floress, Cara Cuite, Kathleen E. Halvorsen, David Watkins, and Datu Buyung Agusdinata. Presented at the 2017 Western Social Sciences Association Conference, San Francisco, April 2017
- "Social and political inequality as challenges in technology diffusion: Evidence from government-funded improved cookstove program in rural Mexico," with Aparajita Banerjee. Presented at the 2017 Western Social Sciences Association Conference, San Francisco, April 2017
- "Individualism and symbiosis: The Dance at Dancing Rabbit," Rural Sociological Society Conference, Toronto, August 2016
- "Pursuing sustainable consumption through diverse alternative economies: A comparative examination of two rural intentional communities," Rural Sociological Society Conference, Toronto, August 2016
- "Understanding homeowner motivations to adopt residential solar electric technology: What predicts adoption?" Abhilash Kantamneni, Emily Prehoda, and Chelsea Schelly. Part of an organized session, organized by Richelle Winkler and Chelsea Schelly. Rural Sociological Society Conference, Toronto, August 2016
- "Community Scale Options for Sustainable Material Systems: Lessons from Intentional Communities," International Symposium on Society and Natural Resources, Houghton, MI, June 2016

- "Pursuing Sustainable Consumption through Diverse Alternative Economies: A Comparative Examination of Two US Intentional Communities," Western Social Science Association Annual Conference, Reno, NV, April 2016
- "Reconnecting with our Being: The Potential of 3D Printing Technologies." Rural Sociological Society Annual Conference, Madison, WI, August 2015
- "The US Electric Utility Industry's Structural Discouragement of Renewable Energy Technology Adoption." With Edward P. Louie and Joshua Pearce. Rural Sociological Society Annual Conference, Madison, WI, August 2015
- "Public Forests, Private Forests: Community Perceptions of Woody Bioenergy Sourced from Different Land Ownership Types in Wisconsin, USA." Authors: A. Banerjee, K.E. Halvorsen, C.L. Schelly. International Symposium on Society and Natural Resources, Charleston SC, June 2015
- "Public Perceptions of Bioenergy Development: Issues of Scale Shaping Support." With A. Banerjee and K.E. Halvorsen. Western Social Science Association Annual Conference, Portland OR, April 2015
- "The US Electric Utility Industry's Structural Discouragement of Renewable Energy Technology Adoption." With Edward P. Louie and Joshua M. Pearce. Western Social Science Association Annual Conference, Portland OR, April 2015.
- "The Abundance of the Commons and the Politics of Plenty: One Community's Understanding of Shared Resources," Society for Human Ecology Conference, Bar Harbor, ME, October 2014
- "Everyday Household Practice in Alternative Residential Dwellings: The Non-Environmental Motivations for Environmental Behavior," Rachel Carson Center for Environment and Society's Workshop on The Greening of Everyday Life: Reimagining Environmentalism in Postindustrial Societies, June 2014.
- "Self-Sufficiency as Social Justice: The Case of Earthship Bioteecture," Rural Sociological Society Conference, NY, August 2013
- "The Abundance of the Commons and the Politics of Plenty: One Community's Understanding of Shared Resources," Rural Sociological Society Conference, NY, August 2013
- "Self-Sufficiency as Social Justice: The Case of Earthship Bioteecture," Society for the Study of Social Problems Conference, NY, August 2013
- "Earth-Wise Responsible Freedom at the National Gathering of the Rainbow Family of Living Light," American Sociological Association Conference, NY, August 2013
- "The Abundance of the Commons and the Politics of Plenty: One Community's Understanding of Shared Resources," WSSA, Denver, CO, April 2013
- "Implementing Renewable Energy Portfolio Standards: The Good, the Bad, and the Ugly in a Two State Comparison," WSSA, Denver, CO, April 2013
- "Borders and Boundaries in the Global Earthship Community," Annual Conference of the Society for the Social Studies of Science, Tokyo, Japan, 2010
- "Interdisciplinarity from the Frontlines: Reflections on Pedagogy and Practice in an NSF-IGERT Program," panel session organized for the Association for Environmental Studies and Science Conference, Madison, WI, 2009

- "Reducing Energy Consumption and Creating a Conservation Culture in Organizations: A Case Study of One Public School District," Rural Sociological Society Conference, Madison, WI, August 2009
- "Bioterritorial Power: The U.S. Electric Grid as a Technology of Government," Western Social Science Association Conference, Albuquerque, NM, April 2009
- "The Convergence of Metabolic Rift and Ecological Modernization Theory in Solar Technology Adoption," WSSA Conference, Denver, April 2008
- "Hegemony and Disruptive Resistance: The Colorado Utilities Industry and Renewable Energy," WSSA, Denver, April 2008
- "Greening Energy: Explaining the Geographic Distribution of Household Solar Use in the United States" Western Social Science Association Conference, Calgary, Canada, April 2007

PROFESSIONAL SERVICE and MEMBERSHIPS

- Rural Sociological Society, Member: 2013-Present
 Nominated and Elected for Council position, 2015-2017
 Awards and Endowment Committee, 2015-2017.
 Current position: Committee chair.
- Western Social Sciences Association, Member: 2006-Present
 Book Review Editor, *Social Science Journal*, 2015-present
 Annual conference section coordinator, Environmental Policy and Natural Resources Section, 2014-present
- American Sociological Association, Member: 2014-Present
 Section Membership: Consumers and Consumption; Sociology of Culture; Environment and Technology; Science, Knowledge, and Technology; Theory
- International Association for Society and Natural Resources (IASNR): 2015-Present
 International Symposium for Society and Natural Resources 2016, held in Houghton, MI. Executive planning committee.
 ISSRM 2016 Scientific Advisory Committee
 Faculty mentor for MTU-ASPEN, the student chapter of IASNR at Michigan Tech.
- Sustainable Consumption Research and Action Initiative (SCORAI), Member
 Early career paper award, 2016. Award Committee, paper reviewer
- Reviewer: *Environment & Behavior*; *Social Science Journal*; *Energy Policy*; *Energy Research and Social Science*; *Society & Natural Resources*, *Environment and Planning D: Society and Space*; *Social and Cultural Geography*; *Rural Sociology*; *Local Environment*
- University of California Press: Reviewer. Invited book manuscript reviewer

UNIVERSITY SERVICE

- Michigan Tech's Student Chapter of the International Association of Society and Natural Resources (MTU-ASPEN) – Faculty Mentor
- Michigan Tech's Women's Programming Committee (student organization) Faculty Mentor

Michigan Technological University, Summer Undergraduate Research Fellowship (SURF) Proposal Reviewer, Spring 2016

Michigan Technological University, Graduate Student Research Colloquium Judge
Spring 2016

Michigan Technological University Center for Water and Society:
Department Representative, Education and Research Subcommittee
Graduate Student Funding Review Committee, 2014-2016
World Water Day Poster Judge, March 2015

Michigan Technological University
Communication Learning Goal Committee, 2014-present
Communication Learning Goal Assessment, Summer 2015, 2016, 2017

Michigan Technological University, Critical and Creative Thinking Learning Goal
Learning Goal Assessment, Summer 2015

Michigan Technological University, Social Responsibility and Ethical Reasoning
Learning Goal. Learning Goal Assessment: Summer 2014, 2016, 2017

Michigan Technological University sustainability blog (blogs.mtu.edu/sustainability/)
Contributor/co-administrator

DEPARTMENT SERVICE

Graduate Program Director
Beginning Fall 2017

Environmental and Energy Policy Graduate Program
Curriculum committee; Admissions committee

Department of Social Sciences
Department Major Assessment, Fall 2014, Fall 2015, Fall 2016, Spring 2017
Environmental and Sustainability Science Major Development Committee
Search Committee, Fall 2015 Energy Policy Faculty Search, Committee member
Search Committee Chair, Fall 2016 Faculty Search

STUDENT ADVISING

Amanda Kreuze, Environmental and Energy Policy MS Program, Co-advisor, April 2015

Emily Prehoda, Environmental and Energy Policy MS Program, Advisor. Fall 2016

Emily Prehoda, Environmental and Energy Policy PhD Program, Advisor, current

Will Lytle, Environmental and Energy Policy PhD Program, Advisor, current
Committee member:

5 Environmental and Energy Policy PhD students (3 completed, 2 in progress)

7 Outside Department MS students (5 completed, 3 in progress)

2 Outside Department PhD student (1 completed, 1 in progress)

University of Western Australia. Requested as external examiner for PhD thesis. 2016.

Swidburne University of Technology, Australia. External examiner for MS thesis. 2017.