

**PUBLIC SERVICE COMMISSION  
OF UTAH**

**Docket No. 13-035-184**

Exhibit SC\_\_\_DRM-1

Dustin Mulvaney Curriculum Vitae

## Dustin R. Mulvaney, Ph.D.

Assistant Professor, Environmental Studies Department, College of Social Sciences, San Jose State University

### EDUCATION & TRAINING

**National Science Foundation Science, Technology, & Society Postdoctoral Scholar**, Department of Environmental Science, Policy, and Management, University of California, Berkeley, 2009–2011. Mentor, Alastair Iles.

**Ph.D., Environmental Studies**, University of California, Santa Cruz, 2007

Committee: David E. Goodman (advisor, political economy of agriculture), Melanie Dupuis (sociology of food), Deborah Letourneau (biosafety/ecology).

**M.S., Environmental Policy Studies**, New Jersey Institute of Technology, 2001

Committee: Eric Katz (advisor), David Rothenberg, Andrew Light

**B.S., Chemical Engineering**, New Jersey Institute of Technology (Minor: Applied Physics), 1998

### ACADEMIC APPOINTMENTS

**Assistant Professor**, Environmental Studies Department, San Jose State University, 2011–current, tenure Track; Duties include teaching courses such as (1) **Energy & the Environment**, (2) **Sustainable Energy Strategies**, (3) **Research Proposals**, and (4) **Solar Energy Analysis**; College of Social Science Curriculum Committee; advising Environmental Studies majors with an emphasis in energy and Master's Theses.

**Science, Technology, & Society Postdoctoral Scholar**, Department of Environmental Science, Policy, and Management, University of California, Berkeley, 2009–2011. Funded by a National Science Foundation Division of Science, Technology, and Society Postdoctoral Scholarship. SES-0924991.

**Teaching Fellow in Sustainability Engineering and Ecological Design**, Electrical Engineering, UC Santa Cruz, 2008–2009. Funded by the National Science Foundation (PI: Ali Shakouri, co-PIs: Ben Crow, Melanie Dupuis, Steve Gliessman, Ronnie Lipschutz).

**Lecturer**, Environmental Studies, UC Santa Cruz (1) **Biotechnology: Social and Environmental Dimensions**, 2009, 2007, 2006 (2) **Sources of Renewable Energy**, Electrical Engineering, 2009 (co-instructor) (3) **Energy Politics and Policy**, and **Energy Politics and Policy Lab**, 2009 (4) **Environment and Society**, College 8, UC Santa Cruz, 2007, 2008 (5) **Political Ecology and Social Change**, 2008 (6) **Science, Policy, and the Environment**, Silicon Valley Center, UC Extension, NASA-Ames, 2007

**Teaching Assistant**, Environment Studies, University of California, Santa Cruz, 2001–2006: **(1a, 1b, 1c, 1d)** Geographic Information Systems (Brian Fulfroost, spring '02, '03, '04; fall '04); **(2)** Principles of Sustainable Agriculture (Tim Vos, winter '06); **(3)** Environmental Law & Policy (Ruth Langridge, spring '06); **(4)** Environmental Studies Capstone (Karen Holl, winter '04); **(5)** Political Economy & the Environment (Alan Balch, winter '03); **(6)** Natural Resource Economics (Alan Richards, fall '02); **(7)** Sociology of Social Movements (Doug Bevington, summer '02); **(8a, 8b)** National Environmental Policy (Daniel Press, winter '02, '05); **(9)** Sustainable Development & the U.S./Mexico Border (Roberto Sanchez-Rodriguez, fall '01)

**Research Assistant**, **(1)** Environment Studies, University of California, Santa Cruz, 2005–2007, Supervisor, Dennis Takahashi Kelso. Conducted interviews activists, regulators, scientists, and industry representatives for a project examining the subnational and national regulatory response to transgenic salmon in North America. Project funded by the Pew Ocean Fellows Program. **(2)** Environment Studies, University of California, Santa Cruz, 2005, Supervisor: Deborah Letourneau. Digitized landscape complexity on the Central Coast of California near organic farms; conducted aerial photo interpretation of plant community alliances. **(3)** Environmental Politics Workshop, University of California, Berkeley, 2003 Supervisors, Michael Watts, Iain Boal. Authored an annotated bibliography called *Biotechnology, the Life-Sciences Industries, and the Environment*. **(4)** Environmental Policy Studies, New Jersey Institute of Technology, 2000 Supervisor, Nancy Jackson. Used aerial photos, SAS, & Army Corps archival data to explain the impact of fortification structures on shoreline erosion caused by hurricanes and nor'easters on New Jersey's barrier islands.

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### GRANTS & FELLOWSHIPS

- 2013 Research, Scholarship, and Creativity Grant, Academic Affairs, SJSU, \$2,000 + 0.2 release time (\$8,700) to study the water and air vulnerabilities related to oil and gas extraction.
- 2013 Water Resources and Policy Initiatives Faculty Research Incentives Award, "Water Resource Vulnerability and the Environmental Justice Dimensions of Developing the Monterey Shale." Office of the Chancellor, California State University, \$5,067
- 2013 College of Social Sciences, Foundation Research Grant, \$2,000
- 2012 Switzer Environmental Innovation Grant with EARTHWORKS and a co-PI to look at water footprint, land use change and public lands issues, and regulatory policies related to extracting fossil fuels from the Marcellus and Monterey Shale, \$40,000 (\$9,615 to SJSU for course relief, \$2,000 for interns)
- 2012 College of Social Sciences Travel Grant, SJSU, \$750
- 2012 College of Social Sciences Research Grant, SJSU, \$1,500 to research impacts of solar energy development on public lands.
- 2012 Research, Scholarship, and Creativity Grant, Academic Affairs, SJSU, \$2,000 + 0.2 release time (\$8,700) to study the emergence of the Chinese solar sector and environmental implications.
- 2009–11 National Science Foundation, Science, Technology, and Society Postdoctoral Fellowship, SES-0924991, \$119,996
- 2009–11 Switzer Foundation Environmental Leadership Grants, \$65,000 over three years
- 2006 Switzer Foundation Professional Development Grant, \$600
- 2006 University of California, President's Dissertation Year Fellowship, \$21,000
- 2002-05 Environmental Studies Research Grants, \$5,500
- 2004 Switzer Foundation Environmental Leadership Fellowship, \$13,000
- 2003 Doctoral Student Sabbatical Fellowship, Division of Graduate Studies, \$5,900
- 2001 University of California Regents' Fellowship, \$6,150
- 1997 Chemical Engineering Merit Scholarship, \$2,000
- 1994–97 Local 68A Operating Engineers Scholarship, \$6,000

### HONORS/AWARDS

- **2012 Daniel B. Luten Award** for best paper on Energy and the Environment by a professional geographer from the American Association of Geographers Energy specialty group. ("Prospecting the Solar Energy Frontier: Decarbonization, Sputnik Moments, and the Political Ecology of the Green New Deal" is in final preparation for planned submission to *Economic Geography* and is the basis for a book manuscript in preparation.)
- 2012 San Jose State University, College of Social Sciences, Author Award.
- Graduate Student Honor Society, NJIT, 1999–2001.
- New Jersey's Top Young Chemist, NJ American Institute of Chemists, 1997.
- Otto York Award, NJ American Institute of Chemical Engineers, 1996.

### PEER REVIEWED ARTICLES & BOOK CHAPTERS

2014. Dustin Mulvaney. "Are Green Jobs Just Jobs? Cadmium Narratives in the Life Cycle of Photovoltaics." *Geoforum* Available online. <http://dx.doi.org/10.1016/j.geoforum.2014.01.014>

2014. Dustin Mulvaney & Tim Krupnik. "Zero-tolerance for genetic pollution: Rice farming, pharm rice, and the risks of coexistence in California rice." *Food Policy* 45: 121–131.

<http://dx.doi.org/10.1016/j.foodpol.2013.06.012>

2013. Dustin Mulvaney. "Opening the Black Box of Solar Energy Technologies: Exploring Tensions Between Innovation and Environmental Justice." *Science As Culture* 22(3): 214–221.

<http://dx.doi.org/10.1080/09505431.2013.786995>

2013. Dustin Mulvaney & Anna Zivian. "Sowing seeds of hope in California's fields of resistance to Pharm rice and Frankenfish." *Journal of Political Ecology* 20: 159–179.

[http://jpe.library.arizona.edu/volume\\_20/Mulvaney-Zivian.pdf](http://jpe.library.arizona.edu/volume_20/Mulvaney-Zivian.pdf)

## Dustin R. Mulvaney, Ph.D.

Assistant Professor, Environmental Studies Department, College of Social Sciences, San Jose State University

2013. Peter Newell & Dustin Mulvaney. "The Political Economy of the Just Transition." *The Geographical Journal* 178(3): 1-12. <http://onlinelibrary.wiley.com/doi/10.1111/geoj.12008/abstract>

2013. Nicholas Sakellariou & Dustin Mulvaney "Engineers and the Renewable Energy Transition: Challenges and Opportunities" *Journal of Professional Issues in Engineering Education and Practice* 139(1): 12–18.

2013. Ronnie Lipschutz & Dustin Mulvaney. "The Road not Taken, Round II: Centralized v. Distributed Energy Strategies and Human Security." Chapter 22 in Hugh Dyer and Maria Julia Trombetta (eds.) *International Handbook of Energy Security*. Edward Elgar, Northampton, MA: 483–506.

2011. Peter Newell, Jon Phillips, & Dustin Mulvaney. *Pursuing Clean Energy Equitably*. Human Development Research Paper 3. United Nations Human Development Report. <http://hdr.undp.org/en/reports/global/hdr2011/papers/>

2011. Chris Bacon, Dustin Mulvaney, Tamara Ball, Ben Crow, Melanie Dupuis, Steve Gliessman, Ronnie Lipschutz, Ali Shakouri, "The Creation of an Integrated Sustainability Curriculum and Student Praxis." *International Journal of Sustainability in Higher Education*. 12(2): 193–208.

2011. Dustin Mulvaney, Tim Krupnik, and Kaden Koffler, "Transgenic Rice Evaluated for Risks to Marketability." *California Agriculture* 65(4): 161–167.

2008. Dustin Mulvaney. "Finding vulnerabilities, exploring opportunities: reconfiguring production, consumption, and conservation in California rice." *Agriculture, Food and Human Values*, 25: 173-176.

2008. Dustin Mulvaney. "Making local places GE-Free in California's contentious geographies of genetic pollution and coexistence." in Max Boykoff, Kyle Evered, and Michael Goodman (eds.), *Contentious Geographies: Environmental Knowledge, Meaning, and Scale*. London: Ashgate.

### EDITED REFERENCE VOLUMES

2013. General Editor, *Green Atlas*, Series Editor Paul Robbins, London: Sage. ISBN: 9781412995719  
<http://www.sagepub.com/books/Book235903>

2011. General Editor, *Green Technology*, Series Editor Paul Robbins, London: Sage. ISBN: 9781412996921  
<http://www.sagepub.com/books/Book234026>

2011. General Editor, *Green Energy*, Series Editor Paul Robbins, London: Sage. ISBN: 9781412996778  
<http://www.sagepub.com/books/Book233505>

2011. General Editor, *Green Food*, Series Editor Paul Robbins, London: Sage. ISBN: 9781412996808  
<http://www.sagepub.com/books/Book233507>

2011. General Editor, *Green Politics*, Series Editor Paul Robbins, London: Sage. ISBN: 9781412996792  
<http://www.sagepub.com/books/Book233506>

### REGULATORY & LEGAL PROCEEDINGS

Expert Witness, California Public Utilities Commission,  
October 2012, Produced written report as expert witness testifying on behalf of Sierra Club in proceedings over California IOUs plans to restructure electricity rates.

Expert Witness, California Public Utilities Commission,  
March 2013, Produced written report as expert witness testifying on behalf of Sierra Club against Pacific Gas & Electric's plan to offer voluntary, unbundled, Renewable Energy Credits (RECs) to customers.

## Dustin R. Mulvaney, Ph.D.

Assistant Professor, Environmental Studies Department, College of Social Sciences, San Jose State University

Amicus Brief on the Low Carbon Fuel Standard, *Rocky Mountain Farmers Union, et al. v. James Goldstene (California Air Resources Board) and Environmental Defense Fund*. June 2012.

Expert Witness, California Public Utilities Commission,  
October 2010, Produced written report as expert witness testifying on behalf of Sierra Club against Pacific Gas & Electric's plan to lower electricity rates for customers consuming over 200% of baseline.

Expert Witness, California Public Utilities Commission,  
January 2009, Prepared written testimony on behalf of Greenlining Institute against Pacific Gas & Electric's failure to assess the cost of decommissioning and recycling of PV power plants.

### PEER REVIEWED ARTICLES IN REVIEW

Patrick Donnelly-Shores and Dustin Mulvaney. Solar Energy Development on Public Lands: Policy-Making Processes in California's New Gold Rush. *Journal of Land Use Policy*. Submitted May 30, 2012; Revise and resubmit offered July 1, 2012. Revision submission pending.

### PEER REVIEWED ARTICLES IN PREPARATION

Dustin Mulvaney. Flashpoints in a Green Civil War: Solar Energy Zones and Biodiversity Conflicts on Public Lands in the Desert Southwest USA. Invited Book Chapter for *Sacrifice Zones: a Critical Geography*. Alec Brownlow & Harold Perkins, (eds.). University of Chicago Press.

Dustin Mulvaney. Energy literacy activities to explore socioecological vulnerability and resilience in renewable energy transitions. Invited Special Issue based on *Ecological Society of America* session: Achieving energy and ecological literacies for all: Towards Best Practices in science education and outreach at the interface. In preparation for *Frontiers of Ecology and the Environment* or *EcoSphere*.

### WHITE PAPERS & MISCELLANEOUS WRITINGS

(In preparation) Greening the PV Industry. *IEEE Spectrum*. Forthcoming April 2014.

(2013) Hazardous Materials Used in Silicon PV Cell Production: A Primer. *Solar Industry Magazine* 6(8): 17–9. [http://www.solarindustrymag.com/issues/SI1309/FEAT\\_05\\_Hazardous\\_Materials\\_Used\\_In\\_Silicon\\_PV\\_Cell\\_Production\\_A\\_Primer.html](http://www.solarindustrymag.com/issues/SI1309/FEAT_05_Hazardous_Materials_Used_In_Silicon_PV_Cell_Production_A_Primer.html)

(2013) Transgenic Crops. In P. Thompson & P. Kaplan. *Encyclopedia of Food and Agricultural Ethics*. Springer, NY.

(2012) Ecological Risks from the Escape of Transgenic Salmon. White paper prepared for the Ocean Conservancy, June, in anticipation of FDA decision to deregulate transgenic salmon. Unpublished.

(2011) Renewable Energy Deployment: Opportunities for Improvement. Desert Report, CNRCC Desert Committee, March 2011. [www.desertreport.org](http://www.desertreport.org)

(2009) Towards a Just and Sustainable Solar Industry, Silicon Valley Toxics Coalition, San Jose, CA. [http://svtc.org/solar\\_repor/](http://svtc.org/solar_repor/)

(2009) entries for a) Precautionary Principle, b) Environmental movements, and c) New Jersey, in the *Encyclopedia of Climate Change*. London: Sage.

(2007) entries for a) Biotechnology, b) Genetic Engineering, c) Green Movement, d) Maize, e) Salmon, f) Uncertainty, g) Free Trade in the *Dictionary of Environment and Society*, Paul Robbins, Ed., London: Sage.

(2007) with Keith Warner and Lisa Newton "Genetic Engineering" *Encyclopedia of Business Ethics and Society*, Bob Kolb, ed. London: Sage. CHOICE award American Library Association; "outstanding" business

## Dustin R. Mulvaney, Ph.D.

Assistant Professor, Environmental Studies Department, College of Social Sciences, San Jose State University  
referece, Reference Users Association.

(2006) Hunt, John, et al. "Spatial relationships between water quality and pesticide application rates in agricultural watersheds." *Environmental Monitoring and Assessment* 121: 245-262.

(2005) for Center for Food Safety, *California Genetic Engineering Scorecard*.

(2004) with Jennifer Wells. *Biotechnology, the Life Sciences Industry, and the Environment: An Annotated Bibliography*. Berkeley, CA: Berkeley Workshop on Environmental Politics. Available online at:  
<http://globetrotter.berkeley.edu/EnvirPol/pubs.html>

(1997) *Sonoluminescence Theory and Lab Manual*, (written during Independent Study, Used in Advanced Topics in Physics Lab, Prof. Trevor Tyson).

### BOOK REVIEWS

(2014) Benjamin K. Sovacool, 2013, *Energy & Ethics: Justice and the Global Energy Challenge*. In preparation.

(2014) Matthew Huber, 2013, *Lifeblood: Oil, Freedom, and the Forces of Capital*. *Social and Cultural Geography*. Forthcoming.

(2014) John Broome, *Climate Matters: Ethics in a Warming World*. *Environmental Ethics*. Forthcoming.

(2012) Daniel Yergin, 2011, *The Quest: Energy Security and the Remaking of the Modern World*. *International Affairs* 88(3): 645–6.

(2011) Mark Smith & Piya Pangsapa, 2008, *Environment & Citizenship: Integrating Justice, Responsibility, and Civic Engagement*. *Environmental Ethics*. 33 Fall: 323–324.

(2008) Andrew Dobson & Derek Bell, 2007, *Environmental Citizenship*. *Environmental Ethics*. 30 Summer: 209–212.

(2007) with Center for Tropical Research in Ecology and Agriculture, Review of Mann's (2004) 1492. *Restoration Ecology* 15(1): 168-9.

(2006) Deane Curtin, 2005, *Environmental Ethics for a Postcolonial World*. *Environmental Ethics*. 3 Fall: 327-330.

(2005) with Center for Tropical Research in Ecology and Agriculture, Review of Terborgh et al.'s (2002) *Making Parks Work: Strategies for Preserving Tropical Nature*. *Conservation Biology* 19(1): 279-281.

### CONFERENCE PRESENTATIONS

What's in a number? Life Cycle Analysis and the Formation of Environmental Inequality. **Society for the Social Studies of Science**, San Diego, October 2013.

Solyndra, Sand Hill Road, and Shadow Banks: Grabbing Clean Energy Futures in the Great Solar Bubble. **Association of American Geographers**, Los Angeles, April 2013.

Sites of Conflict: Tensions in Siting utility-scale Solar. **Berkeley Energy & Resources Collaborative Symposium**, October 19, 2012. Panel includes the Bureau of Land Management, Center for Biodiversity, & First Solar.

Energy Politics and Policy: 2012 and Beyond, **Association for Environmental Studies and Sciences**, Santa Clara, June 2012.

Environmental Justice and Solar Energy Commodity Chains, **International Studies Association**, San Diego, April 2012

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Assistant Professor, Environmental Studies Department, College of Social Sciences, San Jose State University

Prospecting the Solar Energy Frontier: Decarbonization, Sputnik Moments, and the Political Ecology of the Green New Deal. **Association of American Geographers**, New York, NY, Feb. 2012

Of Solyndra, Sand Hill Road, and Shadow Banks: How the Venture Capital Mind Razed Energy Policy. **Society for the Social Studies of Science**, Cleveland, Ohio, Nov. 2011

Prospecting the Solar Energy Frontier: Decarbonization, Sputnik Moments, and the Political Ecology of the Green New Deal. **Society for the Social Studies of Science**, Cleveland, Ohio, Nov. 2011

Prospecting the Solar Energy Frontier: Decarbonization, Sputnik Moments, and the Political Ecology of the Green New Deal. **Association for Environmental Studies and Science**, Burlington, Vermont, June 2011

Are Green Jobs, Just Jobs? **Association of American Geographers**, Seattle, April 2011

Innovation, Vulnerability, and Sustainability in the PV Industry. **Resilience 2011**, Arizona State University, March 2011

Environmental Justice and Innovation in the political ecology of cadmium-based solar PV. **Political Ecology Working Group Mini-Conference**, University of Kentucky, February 2011

Political ecologies of renewable energy metrics: Contestation and commensuration in the life cycle analysis of biofuels and solar PV." **Society for the Social Studies of Science**, Tokyo, August 2010

Are Green Jobs, Just Jobs? A Political Ecology of PV Manufacturing, Deployment, and End-of-Life. **Global Environmental Justice: A New Agenda?** East Anglia University, Norwich, UK, July 2010

Just Green Jobs? Anticipating Environmental Injustice in PV Manufacturing, Deployment, and End-of-Life. **Association for Environmental Studies and Science**, Portland, OR, June 2010

Life Cycle Thinking in the Solar PV Industry: Uses, Methodological Trends, and Other Observations. **American Solar Energy Society**, Phoenix, May 2010

Environmental Justice in Silicon Valley's Clean Tech Space: Governing the Life Cycle Impacts of Solar PV. **Society for the Social Studies of Science**, Washington, DC, October 2009

Keeping PV Clean: The Silicon Valley Toxics Coalition's Green Job Platform. **Solar Power International**, Anaheim, October 2009

Capital, Governance, and Environmental Justice in the Clean Tech Space: Measuring Performance and Anticipating Risks from Solar Photovoltaics. **Association of American Geographers**, Las Vegas, March 2009

Political Ecologies of Scale: Explaining social resistance to agricultural biotechnology. **Association of American Geographers**, Boston, April 2008

(& Anna Zivian) Anti-genetic engineering activists, pharm crops, and frankenfish: Sowing seeds of hope in California's fields of social resistance." **Society for Social Studies of Science**, Montreal, October 2007

Adding creativity to critique in rural sociology: Multifunctionality and sustainability in the California rice industry: Linking production with consumption in rice agro-food networks. **Rural Sociological Society**, Santa Clara, CA, August 2007

The political ecology of farmed and transgenic salmon, **Agriculture Food and Human Values Society**, Victoria, British Columbia, June 2007

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Containing Risk: Explaining Social Resistance to Transgenic Salmon, **Association of American Geographers**, San Francisco, April 2007

From shaping technoscience to governing its seeds: locating neoliberalism in the social resistance to agricultural biotechnology, Chicago, IL, **Association of American Geographers**, March 2006

Practicing a Political Ecology of Scale: A Comparative Study of GE-Free campaigns in Butte and Mendocino Counties. **Association of American Geographers**, Denver, April 2005

Resistance Against Coexistence: A Political Ecology of Genetic Pollution and Intellectual Property Rights. **Association of American Geographers**, Philadelphia, March 2004

Risk, Governance and Agricultural Biotechnologies: Beyond Anti-Science Zealotry and Techno-Fundamentalism. **Society for Social Studies of Science**, Atlanta, October 2003

The Politics of Scaling: Power Asymmetries, Governance, and Agricultural Biotechnologies. **Agriculture, Food and Human Values Society**, Austin, TX, June 2003

Human Impacts on Coastal Geomorphology: The Case of Developed Barrier Islands. *Coastal and Marine Specialty Group*, **Association of American Geographers**, New York City, March 2001

### GRADUATE STUDENTS – Thesis Committees Chaired

Christian Ardeleanu (MS candidate) – Environmental Ethics of the Comsovision in the Peruvian Andes

Pedro Hernandez (MS candidate) - water use and the environmental attitudes of wine-grape growers

Jason Reed (MS candidate) - farmer attitudes toward recycled water

Nora Cata (MS student) - institutions and energy poverty on Native American reservations

Ben Huston (MS student) - how environmental attributes of PV modules influence procurement decisions

Christina Peterson (MS student) - citizen science and the role of project leaders play in science education

Brittney Relaford (MS student) - social movement influences on food and seed regulation in California

Justin Weiss (MS student) - primary drivers of industries toward extended producer responsibility policy

Steve Cohen (MS student) – Relationship between PV adoption and homeowner electricity use

Ryan Schmidt (MS student) – Understanding and monitoring household energy flows

### GRADUATE STUDENTS – Thesis/Dissertation Committees

Minako Nishiyama (MS candidate) – how environmental values shape environmental education

Jeff Jenkins (PhD student, UC Santa Cruz) – Impacts from rare earth element mining in the US West

Julie Callahan (MS, 2012) – attitudes toward grey wolf reintroduction in Washington

Jonathan Fata (MS, 2012) – grower attitudes toward on-farm PV installations

### PROFESSIONAL SERVICE

- Treasurer, Energy and Environment Specialty Group of the Association of American Geographers, 2012–2014, elected term, ~700 members.
- Council member, Cultural and Political Ecology Specialty Group of the Association of American Geographers, 2013–2015, elected term, ~600 members.
- Peer Reviewer for Elsevier Academic Press, 2014
- Peer Reviewer for the National Science Foundation, 2010–2013
- Reviewer, 2013, Daniel B. Luten Award, American Association of Geographers
- Editorial Board Member, *Journal of Pollution Effects and Control*, 2013.
- College of Social Sciences Curriculum Committee, Fall 2012–Spring 2014.
- College of Social Sciences Research Committee, Spring 2012.
- External reviewer for Colorado State University NSF IGERT proposal.
- Peer Reviewer for *Sustainability*, 2013
- Peer Reviewer for *Climate Change*, 2012
- Peer Reviewer for *Solar Energy* (Impact Factor 2.125), 2012



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- Peer Reviewer for *Journal of Integrative Environmental Sciences*, 2011–2013
- Peer Reviewer for *International Journal of Sociology of Agriculture and Food*, 2011
- Peer Reviewer for *Environmental Science and Technology* (Impact Factor 4.827), 2010
- Peer Reviewer for *Journal of Sustainable Agriculture*, 2008–2011
- Social Science Faculty Search Committee, 2005–06
- Graduate Student Steering Committee, 2004–05
- Graduate Student Representative, Curriculum Committee, 2004
- Committee Member, Graduate Research Seminar, 2002–03
- President Graduate Student Association, NJIT, 2001
- President, Graduate Student Pugwash, 1999–2000.
- President, American Chemical Society, NJIT chapter, 1996–1998.

### COMMUNITY SERVICE

- Technical Advisory Committee, Waste Reduction Commission of Santa Clara County. 2013–14, The TAC recommends recycling and waste policy to the Recycling and Waste Reduction Commission of Santa Clara County.
- Judge, 2013 Intel Environmental Award, San Jose Tech Museum
- Reviewer, Switzer Foundation Environmental Leadership Grant Program

### OTHER PROFESSIONAL EXPERIENCE

SRE Inc., Bioremediation, Engineering Group Leader, Nutley, N.J., 1998–2001.

Managed technology on remediation sites contaminated by the fuel additive MTBE.

Surfactants Project Engineer, Cytec Industries, Inc., Waverly, W.V., 1998

Supervised the transfer of operations from the NJ plant to a new facility in WV, inspected new facility to ensure it conformed to blueprints/process flow diagrams, co-designed SO<sub>2</sub> scrubber.

Surfactants Process Development Researcher, Cytec Industries, Inc., Linden, N.J., 1997.

Served as bench chemist and process engineer on several projects developing new batch protocols for reformulated processes with less hazardous chemical constituents.

### WORKSHOPS & TRAININGS

- Switzer Foundation, "Communicating to Policy-makers." Marin Headlands, CA. September 2013.
- STS Southern California workshop, UC Irvine.
- Center for Research on Multinational Corporations. The Good Solar Conference. SOMO. Amsterdam, The Netherlands. May 2012. Talk given via skype.
- School of International Development, University of East Anglia, "Global Environmental Justice: Towards a New Agenda." Norwich, UK. July 2010.
- Switzer Foundation, "Coalition Building." Los Angeles, CA. March 2010.
- Switzer Foundation, "Media Training." San Francisco, CA. May 2009.
- Salmon Aquaculture Dialogues, World Wildlife Fund, Vancouver, BC, November 29–30, 2006.
- Workshop on Conservation, Environmental Justice, and Resource Rights, Harvard University, Cambridge, MA, October 20, 2006
- Switzer Foundation, "Representing environmental problems in the media." San Francisco, CA.
- Institute for International Studies, University of California, Berkeley, "Dissertation Workshop on Nature, Power, Culture," Sonoma, CA, April 8–11, 2004
- Institute for Development Studies, Sussex University "Can agricultural biotechnology be pro-poor?" Brighton, UK, October 1–2, 2003