# Abbreviated curriculum vitae Barbara Herr Harthorn

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Department of Anthropology University of California Santa Barbara, CA 93106-3210

## **EDUCATION**

1984-1987	Postdoctoral Training, Social Psychology, University of California, Santa Barbara
1983	Ph.D., Anthropology, University of California, Los Angeles
1975	M.A., Anthropology, University of California, Los Angeles
1973	B.A., Anthropology, Bryn Mawr College, Bryn Mawr, PA, Departmental Honors

#### PROFESSIONAL EMPLOYMENT

2013-	Professor, Department of Anthropology; faculty affiliate, Departments of Feminist
	Studies & Sociology, & Interdepartmental PhD Emphasis in Environment and
	Society, UC Santa Barbara
2017-2018	Associate Dean, Social Sciences Division, College of L&S, UC Santa Barbara
2006-2013	Associate to Full Professor, Women's Studies/Feminist Studies, UC Santa Barbara
2005-2017	Director & Principal Investigator, NSF Nanoscale Science and Engineering Center:
	Center for Nanotechnology in Society at UC Santa Barbara (CNS-UCSB)
2000-2006	Associate Director, Institute for Social, Behavioral, and Economic Research
	(ISBER), UCSB
1994-2006	Director, Social Science Research Development, UCSB; Assistant to Associate
	Research Anthropologist, ISBER, UCSB; Co-Director, Center for Global Studies,
	ISBER, UCSB
1989-1993	Associate Director, Interdisciplinary Humanities Center, UCSB

#### **SELECTED PUBLICATIONS**

#### Books, Edited Volumes

Harthorn, BH and JW Mohr, eds. (2012) *The Social Life of Nanotechnology*, foreword by John Seely Brown. New York: Routledge.

Pidgeon, N, Harthorn, BH, & T Satterfield, Eds. (2011) Nanotechnology Risk Perceptions and Communication: Emerging Technologies, Emerging Challenges. *Risk Analysis* (*special issue on Nanotechnology Risk Perception*), 31(11), 1694–1783. doi: 10.1111/j.1539-6924.2011.01738.x

Harthorn, BH and L. Oaks, eds. *Risk, Culture, and Health Inequality: Shifting Perceptions of Danger and Blame*, foreword by Dorothy Nelkin. New York: Greenwood/Praeger.

#### Selected Recent Articles

- Harthorn, BH (In press). Review of Neda Atanasoski & Kalindi Vora, Surrogate Humanity: Race, Robots, and the Politics of Technological Futures. 2019, Duke Univ Press, 256 pp. American Ethnologist 47(3) (expected Aug 2020).
- Harthorn, BH, L. Halcomb, T. Partridge, M. Thomas, C. Enders, & N. Pidgeon. (2019). Health Risk Perception and Shale Development in the UK and US. *Health, Risk & Society.*
- Partridge, T., M. Thomas, N. Pidgeon, BH Harthorn (corresponding author). (2019). Disturbed earth: Conceptions of the deep underground in shale extraction deliberations in the US and UK. *Environmental Values 28: 641-663*.
- Satterfield, T, M. Collins, BH Harthorn. (2019). Perceiving resilience: Understanding people's intuitions about the qualities of air, water, and soil. *Ecology & Society* 23(4):47. https://doi.org/10.5751/ES-10637-230447

- Partridge, T, M Thomas, N Pidgeon, BH Harthorn (corresponding author). (2018). Urgency in energy justice: Contestation and time in prospective shale extraction in the United States and United Kingdom. *Energy Research and Social Sciences* 42:138-146.
- Thomas, M., N. Pidgeon, T. Partridge, BH Harthorn. (2018). Using role-play to explore energy perceptions in the US and UK. *Energy Research and Social Sciences*. *45* (Nov): 363-373. https://doi.org/10.1016/j.erss.2018.06.026
- Thomas, M, Partridge, T., Harthorn, BH, Pidgeon, N (2017). Deliberating the perceived risks, benefits, and societal implications of shale gas and oil extraction by hydraulic fracturing in the US and UK. *Nature Energy* 2, Published online 10 April, 17054 doi:10.1038/nenergy.2017.54
- Partridge, T, Thomas, M, Harthorn, BH\* (corresp. author), Pidgeon N, Hasell, A., Stevenson, L, & Enders, C. (2017). Seeing futures now: Emergent US and UK views on shale development, climate change and energy systems. *Global Environmental Change* 42 (Jan 2017):1-12. Available online 16 November 2016 http://doi.org/10.1016/j.gloenvcha.2016.11.002
- Thomas, M, Pidgeon, N, Partridge, T, Evensen, D, Hasell, A, Enders, C, Harthorn, BH & Bradshaw, M. (2017). Public perceptions of hydraulic fracturing for shale gas and oil in the United States and Canada. *WIREs Climate Change* Published Online: Feb 09 2017 DOI: 10.1002/WCC.450.
- Beaudrie, C., T Satterfield, M Kandlikar, and BH Harthorn. (2014). Scientists vs. Regulators: Precaution, Novelty & Regulatory Oversight as Predictors of Perceived Risks of Engineered Nanomaterials. *PLoS One* 9(9): e106365. doi: 10.1371/journal.pone.0106365.
- Beaudrie, C., T Satterfield, M Kandlikar, and BH Harthorn. (2013). Expert views on regulatory preparedness for managing the risks of nanotechnologies. *PLoS One* 8(11): 380250. Nov 11, DOI: 10.1371/journal.pone.0080250
- Engeman, CD, L Baumgartner, BM Carr, AM Fish, JD Meyerhofer, TA Satterfield, PA Holden & BH Harthorn\* (\*corresp. author). (2013). The hierarchy of environmental, health, and safety practices in the US nanotechnology workplace. *Journal of Occupational and Environmental Hygiene* 10(9): 487-495. doi: 10.1080/15459624.2013.818231
- Roco, MC, WS Bainbridge, B Tonn, and G Whitesides, Eds. (2013). BH Harthorn, Contributor. *Convergence of Knowledge, Technology and Society.* New York: Springer.
- Satterfield, TA, J Conti, BH Harthorn, N Pidgeon and A Pitts. (2012). Understanding shifting perceptions of nanotechnologies and their implications for policy dialogues about emerging technologies. *Science and Public Policy*. First published online November 18, 2012 doi:10.1093/scipol/scs084
- Engeman, CD, L Baumgartner, BM Carr, AM Fish, JD Meyerhofer, TA Satterfield, PA Holden & BH Harthorn\* (\*corresponding author). (2012). Governance implications of nanomaterials companies' inconsistent risk perceptions and safety practices. *Journal of Nanoparticle Research*. 14(749), 1-12. doi: 10.1007/s11051-012-0749-0
- Rogers, J, C Shearer & BH Harthorn. (2011). Debating Nano/Bio technological alteration of food: Public deliberation and cultural logics. Special issue on food, *Environment and Society*: *Advances in Research 2(1):* 149-169. doi:10.3167/ares.2011.020109
- Pidgeon, N, BH Harthorn & TA Satterfield, Eds. (2011) Nanotechnology Risk Perceptions and Communication: Emerging Technologies, Emerging Challenges. *Risk Analysis* (*special issue on Nanotechnology Risk Perception*), 31(11), 1694–1783. doi: 10.1111/j.1539-6924.2011.01738.x
- Pidgeon, N, BH Harthorn & TA Satterfield. (2011) Nanotechnology Risk Perceptions and Communication: Emerging Technologies, Emerging Challenges. *Risk Analysis*, *31*(11), 1694–1700. doi: 10.1111/j.1539-6924.2011.01738.x
- Roco, MC, BH Harthorn, D Guston & P Shapira. (2011) Innovative and responsible governance of nanotechnology for societal development. *Journal of Nanoparticle Research* 13(9), 3557-3590. doi: 10.1007/s11051-011-0454-4
- Conti, J, TA Satterfield & BH Harthorn. (2011) Vulnerability and social justice as factors in emergent US nanotechnology risk perceptions. *Risk Analysis* [published online March 2011 DOI: 10.1111/j.1539-6924.2011.01608.x]

## Selected Recent Book Chapters

- Harthorn, BH, T. Satterfield, N Pidgeon. In press (2020). Nanotoxicology and risk perception among public and elite groups. In *Nanotoxicology*, ed. J. Lead, ch. 8. Springer.
- Pidgeon, N, Thomas, M, Partridge, T, Evensen, D, Harthorn, BH. (2017). Hydraulic Fracturing: Is It a New Energy Transition? In *Risk Conundrums: Solving Unsolvable Problems*, Kasperson Roger, Ed.,
- Pidgeon, N, Harthorn, BH, Satterfield, T, & Demski, C (2017). Cross-National Comparative Communication and Deliberation about the Risks of Nanotechnologies. In KH Jamieson, D Scheufele, and D Kahan (Eds.), *Oxford Handbook on the Science of Science Communication*, pp 141-156. Oxford University Press.
- Harthorn, BH. (2017). Nanotechnologies in Societal Context: Social, Ethical, and Governance Issues. In Bharat Bhushan, Ed., *Springer Handbook of Nanotechnology*, Fourth Edition, ch. 44. Switzerland: Springer.
- Harthorn, BH. (2017). Nanotechnology. In BS Turner (Ed.), *The Wiley-Blackwell Encyclopedia of Social Theory*. Wiley-Blackwell.
- Harthorn, Barbara Herr, Pidgeon, Nick & Satterfield, Terre. (2016) CNS Synthesis Report on IRG 3: Understanding Nanotechnologies' Risks and Benefits: Emergence, Expertise & Upstream Participation, pp. 1-56. Santa Barbara, CA: CNS-UCSB. Available for download at: <a href="http://www.cns.ucsb.edu/irg-synthesis-reports">http://www.cns.ucsb.edu/irg-synthesis-reports</a>
- Fastman, B, Metzger, M, & Harthorn, BH. (2016) Forging New Connections between Nanoscience and Society in the UCSB Center for Nanotechnology in Society Science & Engineering Fellows Program. In K Winkelmann & B Bhushan (Eds), *Global Perspectives of Nanoscience and Engineering Education* (pp.375-393). Switzerland: Springer. doi: 10.1007/978-3-319-31833-2 14
- Harthorn, BH. (2016). Unifying ethical concepts. In William Bainbridge, William Sims & Mihail Roco (Eds.), *Handbook of Science and Technology Convergence, ch. 54*. Switzerland: Springer International. Switzerland: Springer International Publishing. ISBN-13: 978-3319070513 ISBN-10: 3319070517. Online publication 2015 DOI 10.1007/978-3-319-04133-2\_54-1
- Harthorn, Barbara Herr. (2016). Techno-benefits and social risks. In Lenore Manderson, Anita Hardon & Elizabeth Cartwright (Eds.), *The Routledge Handbook of Medical Anthropology*, ch. 13. London: Routledge.
- Randles, S, J Youtie, D Guston, BH Harthorn, C Newfield, P Shapira, F Wickson, A Rip, R von Schomberg, R. and N Pidgeon. (2013) A Trans-Atlantic conversation on responsible innovation and responsible governance. In van Lenet, H. et al (eds) *Little by Little; Expansions of Nanoscience and Emerging Technologies*. IOS Press, 169-180.
- Shearer, C, J Rogers-Brown, K Bryant, R Cranfill, & BH Harthorn (2013) Power and Vulnerability: Re-contextualizing 'low risk' views of environmental and health hazards. *In S. Maret (Ed.), Research in Social Problems and Public Policy, Vol 21, William R. Freudenburg, a Life in Social Research (pp. 235-257). Bingley, UK: Emerald Group Publishing Limited.*
- Harthorn, BH, & J Mohr (2012) Introduction: The social scientific view of nanotechnologies. In BH Harthorn and J Mohr (Eds.), *The Social Life of Nanotechnology*, pp. 1-15. New York: Routledge.
- Rogers-Brown, J, C Shearer, BH Harthorn, & T Martin. (2012) Different uses, different responses: Exploring emergent cultural values through public deliberation. In BH Harthorn and J Mohr (Eds.), *The Social Life of Nanotechnology*, pp. 195-222. New York: Routledge.
- Harthorn, BH, J Rogers, C Shearer, & T Martin. (2012) Debating Nanoethics: U.S. public perceptions of nanotechnology applications for energy and the environment. In D Scott & B Francis (Eds.), *Debating Science: Deliberation, Values, and the Common Good* (2nd ed., pp. 227-249). New York: Prometheus Books.
- Harthorn, BH, C Shearer, & J Rogers. (2012) Risk perception, public participation, and sustainable global development of nanotechnologies. In R Parker & RP Appelbaum (Eds.), *Emerging Economies, Emerging Technologies: Can Emerging Technologies Make a Difference in*

- Development? pp. 188-197. New York: Routledge.
- Harthorn, BH, C Shearer, & J Rogers. (2011) Exploring ambivalence: Techno-enthusiasm and skepticism in US nanotech deliberations. In *Quantum Engagements: Social Reflections of Nanoscience and Emerging Technologies*, Eds. TB. Zülsdorf, C Coenen, A Ferrari, U Fiedeler, C Milburn, & M Wienroth, pp. 75-89. Amsterdam: IOS Press.
- Harthorn, BH. (2011) Methodological challenges posed by emergent nanotechnologies and cultural values. In *The Handbook of Emergent Technologies and Social Research*, Ed. SN Hesse-Biber, pp. 65-88. New York: Oxford University Press.
- Roco, M, BH Harthorn, D Guston, & P Shapira. (2011) Innovative and responsible governance of nanotechnology for societal development. In M Roco & MC Hersam (Eds.), *Nanotechnology Research Directions for Societal Needs in 2020* (pp. 561-618). Boston and Berlin: Springer.

#### SELECTED RECENT HONORS

2020	Nominee, Chair-Elect, Section X (Societal Impacts of Science and Engineering) (3-yr professional society leadership duties), Jul 2020
2019	NSF-Appointed Founding Member, NSF College of Reviewers for the NSF's Big
	Idea: Growing Convergence Research (GCR)
2017	Nominee (as Director, CNS-UCSB) for 4S (Society for Social Study of Science)
	Infrastructure Prize
2017	Nominator, MacArthur Foundation 'Genius' Award
2015	Invited testimony, Congressional Briefing on "Nanotechnology Policy: Evolving and
	Maturing," American Chemical Society's Science and the Congress program,
	Washington DC, Oct 9
2015	Nominee, AAAS Committee on Nominations, Fall 2015
2014	Invited testimony, US Presidential Commission on Bioethics, hearings on the White
	House BRAIN Initiative, Washington DC, Feb 10-11, 2014.
2013	UC CEIN received California's highest environmental honor, the California
	Governor's Environmental and Economic Leadership Award (GEELA) in the field of
	Green Chemistry for its nanotechnology environmental health and safety efforts, Jan
	22, 2013. As the leader of one of the 7 EHS research groups in the CEIN and a
	member of the Executive Committee, I share in this honor. EPA Administrator Lisa
	Jackson praised the Center for this accomplishment.
2009-2012	Member, Committee on Opportunities in Science (COOS), American Association for
	the Advancment of Science (AAAS)
2007	Elected to Fellowship, American Association for the Advancement of Science
	(AAAS), in Section X, "for contributions in bringing together scientists, social
	scientists, policy makers, and the general public to gain awareness and
	understanding of the risks and opportunities in science and technology."
2002	Elected Fellow, Society for Applied Anthropology (SfAA)

#### **RESEARCH GRANTS & AWARDS Since 2012**

2019-2023	Ideas Lab: Collaborative Project: Bottom-up Construction of a Synthetic Neuron and
	Programmable Neuronal Network. Harthorn PI UCSB; Liu PI Univ Mich; (plus 5
	other PIs/institutions) (\$4M total award; \$352,581 UCSB).
2019-2022	NSF/BIO Ideas Lab: Collaborative Project: ProteoCell: The Fat-Free Cell
	Harthorn PI UCSB; Kerfeld PI Mich State Univ, plus 4 other PIs/institutions) (\$4M
	total award; \$349,554 UCSB).
2019	NSF/BIO Ideas Lab: Understanding the Rules of Life: Building a Synthetic Cell;
	Proposal: Synthetic Cells in a Societal Context (travel grant only, PI Harthorn).

Genome British Columbia, Understanding the Perceived Risks and Benefits of 2018-2020 Agricultural Applications of Gene Editing, University of British Columbia, Vancouver. PI Satterfield. Co-PI Kandlikar. Harthorn international collaborator. (\$50.000 CD) Genome British Columbia, Comparing Regulation for Gene-Edited Crops. PI 2018-2020 Kandlikar Co-PI Satterfield, Harthorn international collaborator. (\$50,000 CD) UCSB Academic Senate, Faculty Research Grant, Societal Implications of Synthetic 2018-2019 Biology, Harthorn PI (\$9,213) 2017-2018 ISBER SSRGP, New Emerging Risks: Societal Implications of Synthetic Biology, Harthorn PI (\$7531) UCSB RAMP funds for CNS, Harthorn PI/Director (\$93,900) 2015-2017 NSF: SES Postdoctoral Fellowship Grant: Energy, Risk and Urgency—Emergent 2015-2018 Public Perceptions of Unconventional Oil and Gas Extraction, 2015-2017, Harthorn PI (\$107,788) 2010-2016 NSF: Nanoscale Science and Engineering Center: Center for Nanotechnology in Society at University of California at Santa Barbara-renewal, Harthorn PI and Director (\$7,081,934) 2014 NSF: Synthetic Biology Workshop on Societal Implications. Harthorn Exec Comm, Pls D. Guston ASU and R. Murray, CalTech. (\$150,000) NSF/EPA: UC CEIN: Predictive Toxicology Assessment and Safe Implementation of 2013-2020 Nanotechnology in the Environment, UCLA; PI Nel (\$24,000,000), Harthorn Co-PI UCSB subk (\$1,098,224) ISBER, UCSB: C-RIG grant, Figuring Sea Level Rise, Harthorn, BH and J Walker, 2012 2012 NSF: Workshop on Anticipatory Governance of Complex Engineered Nanomaterials, Exec Comm (Pls Guston, ASU, and Eggleson, Notre Dame) (\$60,000).2008-2013 NSF: UC Center for Environmental Implications of Nanotechnology, UCLA; Harthorn co-PI on UCSB Subcontract (Keller, UCSB PI; Nel UCLA PI); (\$24,000,000 total; UCSB subk \$8,000,000).

## **SELECTED INVITED PRESENTATIONS (2012 – present)**

- Invited keynote, "Understanding Tolerance for Risk in Synthetic Biology (and Other Emerging Technologies)" US NSTC Interagency Working Group on Synthetic Biology, Bethesda, MD, Oct 16-17, 2019.
- Invited lecture, "Engineered nanomaterials in societal context risk perception and social response, presentation in "Engineered Nanomaterials—No Small Issue," California Department of Public Health and Cal-EPA, Sacramento, Oct 2018
- Invited workshop participant, "Where Do We Stand on Alternative Testing? Looking Back and Peering Forward," UCLA, Feb 20-21, 2018
- Invited plenary lecture, "Intuitive Toxicology," symposium on Toxics in Everyday Life, UCLA School of Law, June 9, 2017.
- "Societal Themes and Issues." Invited closing speaker, US-EU Bridging NanoEHS Research Efforts, Joint Workshop of Communities of Research (COR). National Science Foundation, June 6, 2016
- Invited plenary talk, "Contributions and Legacy of a Decade of Societal Work on Nanotechnology," NSF Nanoscale Science and Engineering annual PI meeting, Arlington, VA, December 10-11, 2015.
- Invited speaker, Congressional Briefing on "Nanotechnology Policy: Evolving and Maturing." American Chemical Society, organized by ASU, Washington, DC, October 9, 2015.
- "What are STS data?" NSF Data Management Workshop-STS Group. Arlington, VA, NSF, Jan 29-

- 31, 2015.
- "Surveying the Nanomaterials Industry: Lessons Learned and Challenges." National Webinar presentation, (US) Society of Toxicology, Nanotoxiology Specialty Section. Mar 10, 2014.
- "Understanding Societal Aspects of Emerging NanoTechnologies." Inaugural social science guest lecture, Peter Wall Institute, Nano Energy Group, Dept of Chemistry, Univ of British Columbia. Feb 27, 2014.
- "Risk Perception and Communication in Nanotechnology Stakeholder Engagement." Invited presentation in panel organized by the US Environmental Protection Agency on stakeholder engagement. American Association for the Advancement of Science, Chicago Feb 15, 2014.
- Invited testimony, US Presidential Commission on Bioethics, hearings on the White House BRAIN Initiative, Wash DC, Feb 10-11, 2014.
- "Evidence-Based Risk Perception and Communication for Ethical and Socially Sustainable Nanotechnology." Keynote address, NSF NSE Grantees meeting, Arlington, VA Dec 4-6, 2013.
- "Nanotechnology Multi-Stakeholder Risk Perception: Implications for Risk Analysis, Management, and Communication." Keynote address, 2013 NNI Risk3 Stakeholder Workshop, Washington DC Sept 11, 2013. Available for viewing, webcast and download at: (nano.gov)
- "Surveying the Nanomaterials Industry: Lessons Learned & Challenges." Keynote address and webcast, NIOSH Stakeholder workshop, Cincinnati, OH, July 31, 2013.
- "Ethical, Legal and Societal Implications of Nanotechnologies." Invited plenary presentation, 2013 NNI Strategic Planning Stakeholder Workshop, Wash DC Jun 11-12, 2013.
- "Societal Dimensions of Responsible Innovation for Nanotechnology." National Webinar for the NACK (Nanotechnology Applications and Career Knowledge) Center at Pennsylvania State University, Dec 14 2012. Available for download and viewing at: <a href="http://nano4me.org/webinars.php">http://nano4me.org/webinars.php</a>
- "Public Perceptions of Nanotechnology Risk." Invited plenary talk in 1<sup>st</sup> annual CalNIN workshop (California Nanotechnology Industry Network), California NanoSystems Institute, UCLA Sept 25, 2012.
- "The Future of Responsible Development for Converging Technologies." Invited plenary presentation, Converging Technologies EU-US Workshop, Sept 20-21, 2012 Leuven, Belgium.
- Invited testimony, NAS Review Panel of the NNI for the Office of Science Technology Policy, US White House, Beckman Center, Irvine, CA, May 15-16, 2012.
- (with Cassandra Engeman) Invited teleconference co-presentation on industry risk perception and safety practices survey research to the Nanotechnology Working Group of NAIHA (National American Industrial Hygiene Association), April 18, 2012
- "Public Participation in Nanotech Development." Invited guest speaker/consultant, Nanotechnology Public Engagement & Communications (NPEC) Working Group (committee of the NNI NSET for the White House) April 13, 2012, teleconference.

## **SELECTED RECENT UNIVERSITY SERVICE (2015 - present)**

2020 2019-2020	Reviewer, UC Multicampus Research Programs and Initiatives, UCOP Mentor, McNair Scholars Program
2019-2021	Member, Academic Senate Committee of Privilege & Tenure
2019	Faculty Mentor, Advancing Faculty Diversity Mentoring Program, College of
	Engineering
2018-2019	Committee member, Feminist Futures campus initiative
2017-present	ADVANCE committee, UCSB, 3 institutional applications 2017 (PI), 2019, 2020 (co-
	PI) to increase participation and advancement of women in STEM.
2017-2018	Associate Dean, Division of Social Sciences, College of Letters and Science
2017-2018	Associate Chair, Dept of Anthropology
2013-2018	Member, Department of Anthropology, Development Committee & Newsletter
	Committee

2013-present Junior Faculty Mentor, L&S and College of Engineering (5 faculty members) 2008-present Member, Executive Committee & Group Leader, NSF/EPA UC Center for

Environmental Implications of Nanotechnology, UCLA/UCSB

2005-2017 Director, NSF national center, CNS-UCSB

### **SELECTED OTHER PROFESSIONAL SERVICE (2015 - present)**

2017, 2018, Chair, 4 annual STC Site Review Panels, NSF BIO Directorate
 2019, 2020
 2014-2015 Executive Committee, NSF Workshop on Societal Implications of Synthetic Biology, ASU

Reviewer for a wide range of journals and presses spanning the disciplines of anthropology, technology and society, science studies, interdisciplinary social science, medicine and public health, environmental science, risk analysis, nanoscience and nanotechnology, and immigration studies, including (since 2015):

Catalyst: Feminism, Theory, Technoscience; Energy, Ecology and Environment; Energy Research and Social Science; Environmental Science & Technology; Health, Risk & Society; Human Organization; Journal of Health & Human Behavior; Journal of Nanoparticle Research; Journal of Occupational & Environmental Hygiene; Journal of Political Ecology; Journal of Risk Research; NanoEthics; Nature Nanotechnology; Review of Policy Research; Risk Analysis; Routledge Press; Science Communication; Science & Engineering Ethics; Science and Public Policy; Science, Technology & Human Values; Social Studies of Science; Springer Press; Taylor & Francis Press; Wiley UK Life Sciences; and WIREs Nanomedicine & Nanobiotechnology.

## Grant proposal and program reviewer for:

International: National Env Res Council (NERC), UK; Netherlands Organisation for Scientific Research (NWO); UK Economic & Social Research Council; Indo-US Science and Technology Forum

Federal government, national programs: US Department of Energy (DOE); National Science Foundation(NSF SBE/STS; NSF SBE/DRMS; NSF BIO/MCB; NSF ENG/CBET; NSF Cross-Directorate: Program for International Research and Education

UC Systemwide programs: UC Research Grants Program Office, Multicampus Research Programs and Initiatives