

**Clark A. Miller**

**Address:**

Consortium for Science, Policy & Outcomes (phone) 480-727-8787  
Arizona State University (fax) 480-727-8791  
P.O. Box 874401  
Tempe, AZ 85287-4401

**Education:**

1996 Ph.D., Electrical Engineering, Cornell University.  
1990 B.S., Electrical Engineering, University of Illinois.

**Dissertation:**

*On Gravity Waves and the Electrodynamics of the Mid-Latitude Ionosphere.* Defended and submitted, September, 1995. Degree conferred, January, 1996. Cornell University.

**Positions Held:**

2006- Associate Professor, Consortium for Science, Policy & Outcomes and Department of Political Science, Arizona State University.

2005- Senior Fellow, Center for World Affairs and the Global Economy, University of Wisconsin-Madison.

2001-2006 Assistant Professor, Robert M. La Follette School of Public Affairs, University of Wisconsin-Madison. Also appointed in the Robert and Jean Holtz Center for Science & Technology Studies and the Gaylord Nelson Institute for Environmental Studies.

1999-2001 Assistant Professor, Department of Political Science, Iowa State University. Also appointed as Research Scientist in the International Institute for Theoretical and Applied Physics.

1995-1999 Postdoctoral Fellow, Belfer Center for Science and International Affairs, John F. Kennedy School of Government, Harvard University.

1995-1996 Postdoctoral Associate, Department of Science and Technology Studies, Cornell University.

1997, Spring Visiting Scholar, International Institute for Applied Systems Analysis, Vienna, Austria.

**Special Honors and Awards:**

1995 National Science Foundation Professional Development and Cross-Training Fellowship  
2000 National Science Foundation Faculty Early Career Development Award

**Publications:** \* indicates peer reviewed journal articles. \*\* indicates other peer reviewed publication.

*Books*

Clark A. Miller and Paul N. Edwards, eds., *Changing the Atmosphere: Expert Knowledge and Environmental Governance.* MIT Press. Cambridge, MA. July 2001.\*\*

*Science Policy Articles*

- Phil Williams and Clark A. Miller, "The Bush Administration's Foreign Policy Review," in Michael Pugh and Phil Williams, eds., *Superpower Politics*, Manchester University Press, (Manchester, UK: Manchester University Press), pp. 82-101. 1990.
- Clark A. Miller, Sheila Jasanoff, Marybeth Long, William Clark, Nancy Dickson, Alastair Iles, and Tom Parris, "Shaping Knowledge, Defining Uncertainty: The Dynamic Role of Assessments," in Global Environmental Assessment Team, eds., *A Critical Evaluation of Global Environmental Assessments*, Global Environmental Assessment Project (Calverton, MD: IGES/CARE), pp. 79-104, 1997.
- Clark A. Miller, "The Dynamics of Framing Environmental Values and Policy: Four Models of Societal Processes," *Environmental Values*, Vol. 9, pp. 211-233, 2000.\*
- Clark A. Miller, "Hybrid Management: Boundary Organizations, Science Policy, and Environmental Governance in the Climate Regime." *Science, Technology & Human Values*, Vol. 26, No. 4, pp. 478-500, Autumn, 2001.\*
- Clark A. Miller, "Making Democracy Count," *Social Studies of Science*, Vol. 31, No. 3, pp. 454-8, 2001.\*
- Clark A. Miller and Paul N. Edwards, "Introduction: The Globalization of Climate Science and Climate Politics," in C. A. Miller and P. N. Edwards, eds., *Changing the Atmosphere: Expert Knowledge and Environmental Governance* (Cambridge, MA: MIT Press). pp. 1-30. 2001.\*\*
- Clark A. Miller, "Scientific Internationalism in American Foreign Policy: The Case of Meteorology (1947-1958)," in C. A. Miller and P. N. Edwards, eds., *Changing the Atmosphere: Expert Knowledge and Environmental Governance* (Cambridge, MA: MIT Press). pp. 167-218. 2001.\*\*
- Clark A. Miller, "Challenges in the Application of Science to Global Affairs: Contingency, Trust, and Moral Order," in C. A. Miller and P. N. Edwards, eds., *Changing the Atmosphere: Expert Knowledge and Environmental Governance* (Cambridge, MA: MIT Press). pp. 247-286. 2001.\*\*
- Clark A. Miller and Holly T. Dublin, *The Millennium Ecosystem Assessment: A Mid-Term Evaluation*, Report for the Evaluation and Oversight Unit, United Nations Environment Programme. 69 pp. 2003.
- Clark A. Miller, "The Globalization of Human Affairs: A Reconsideration of Science, Political Economy, and World Order," in M. Tetreault, R. Denemark, K. Burch, and K. Thomas, eds., *Rethinking Global Political Economy: Emerging Issues, Unfolding Odysseys* (New York: Routledge). pp. 211-226. 2003.\*\*
- Clark A. Miller, "Knowledge and Accountability in Global Governance: Justice on the Biofrontier," in M. Tetreault and R. Teske, eds., *Partial Truths: Feminist Approaches to Social Movements, Community, and Power, Volume 2* (Richmond: University of South Carolina Press). pp. 315-341. 2003.\*\*
- Clark A. Miller, "Living in a Technological World," in Viraj P. Thacker, ed., *Exploring the Dynamics of Global Change: An Introspective Look at Globalization, International Development, and Public Management* (Khatmandu: Development Publication House). pp. 4-19. 2003. Abridged and slightly modified version reprinted in *The La Follette Policy Report*, vol. 14, no. 1, pp. 1-4, 18-20. 2003.
- Clark A. Miller, "Interrogating the Civic Epistemology of American Democracy: Stability and Instability in the 2000 U.S. Presidential Election," *Social Studies of Science*. Vol. 34. No. 4, pp. 501-531, 2004.\*
- Clark A. Miller, "Climate Science and the Making of Global Political Order," in Sheila Jasanoff, ed., *States of Knowledge: The Co-Production of Science and Social Order* (London: Routledge). pp. 46-66. 2004.\*\*

- Clark A. Miller, "Resisting Empire: Globalism, Relocalization, and the Politics of Knowledge," in Sheila Jasanoff and Marybeth Long-Martello, eds., *Earthly Politics: Local and Global in Environmental Governance* (Cambridge: MIT Press). pp. 81-102. 2004.\*\*
- Clark A. Miller, "New Civic Epistemologies of Quantification: Making Sense of Local and Global Indicators of Sustainability," *Science, Technology & Human Values* 30(3): 403-432, 2005.\*
- Karen Bandhauer, Julie Curti, and Clark A. Miller, "Challenges to Regulatory Harmonization and Standard-Setting: The Case of Environmental Accounting in the US and Canada," *Journal of Comparative Policy Analysis*. Vol. 7(2): 177-194. 2005.\*
- Clark A. Miller, "Science and Democracy in a Globalizing World: Challenges for American Foreign Policy," *Science and Public Policy*. Vol. 32(3): 174-186. 2005.\*
- Clark A. Miller, "The Design and Management of International Scientific Assessments: Lessons from the Climate Regime," in Alex Farrell and Jill Jaeger, eds., *Assessments of Regional and Global Environmental Risks: Designing Processes for the Effective Use of Science in Decisionmaking* (Washington, DC: Resources for the Future), 2005.\*\*
- Clark A. Miller, "Framing Shared Values: Reason and Trust in Global Environmental Governance," in Joanne Bauer, ed., *Forging Environmentalism: Justice, Livelihood, and Contested Environments*. 2006.\*\*
- Clark A. Miller, "The Origins of Scientific Internationalism in Postwar American Foreign Policy, 1938-1953," *Osiris*. Vol. 20, *Science, Technology, and International Affairs*. Accepted for publication. Anticipated publication in 2006.\*
- Clark A. Miller and Paul H. Erickson, "The Politics of Bridging Scales and Epistemologies: Science and Democracy in Global Environmental Governance," in Fikret Berkes, Tom Wilbanks, Doris Capistrano, and Walt Reid, eds., *Bridging Scales and Epistemologies: Linking Local Knowledge and Global Science in Environmental Assessments* (Washington: Island Press). Accepted for publication. Anticipated publication in 2006.\*\*
- Kristin Eschenfelder and Clark A. Miller, "What Public Information Should Government Agencies Publish? A Comparison of Controversial Web-Based Government Information," *Government Information Quarterly*. Accepted for publication. Anticipated publication in 2006.\*
- Clark A. Miller, "Knowledge, Reason, and the Constitution of Democratic Order in International Governance." *Governance*. Accepted for publication. Anticipated publication in Oct. 2006 or Apr. 2007.\*

#### *Scientific Articles*

- C. A. Miller, W. E. Swartz, and J. Y. N. Cho, "PMSE observations during Salvo C of NLC-91: Evidence of a depressed mesopause temperature," *Geophysical Research Letters*, vol. 20, no. 20, pp. 2295-2298. 1993.\*
- J. Y. N. Cho, W. E. Swartz, M. C. Kelley, and C. A. Miller, "The characteristics of PMSE during Salvo B of NLC-91: Evidence of partial reflection and turbulent scatter," *Geophysical Research Letters*, vol. 20, no. 20, pp. 2291-2294. 1993.\*
- W. E. Swartz, J. Y. N. Cho, and C. A. Miller, "Morphology of PMSE during Salvo A of NLC-91," *Geophysical Research Letters*, vol. 20, no. 20, pp. 2287-2290. 1993.\*
- U. Walchli, J. Stegman, G. Witt, J. Y. N. Cho, C. A. Miller, M. C. Kelley, and W. E. Swartz, "First height comparison of noctilucent clouds and simultaneous PMSE," *Geophysical Research Letters*, vol. 20, no. 24, pp. 2845-2848. 1993.\*
- C. S. Huang, C. A. Miller, and M. C. Kelley, "Basic Properties and Gravity Wave Initiation of the Mid-Latitude F-Region Instability," *Radio Science*, vol. 29, no. 1, pp. 395-405. 1994.\*

- Clark A. Miller, "The Electrodynamics of Mid-latitude Spread F: 2. A New Theory of Gravity Wave Electric Fields," *Journal of Geophysical Research*, vol. 102, no. A6, pp. 11,533-11,537. 1997.\*
- Clark A. Miller and Michael C. Kelley, "Horizontal Plasma Flow at Mid-latitudes: More Mechanisms and the Interpretation of Observations," *Journal of Geophysical Research*, vol. 102, no. A6, pp. 11,549-11,555. 1997.\*
- Clark A. Miller, W. E. Swartz, M. C. Kelley, M. Mendillo, D. Nottingham, J. L. Scali, and B. W. Reinisch, "The Electrodynamics of Mid-latitude Spread F: 1. Observation of Unstable, Gravity Wave-Induced, Ionospheric Electric Fields At Tropical Latitudes," *Journal of Geophysical Research*, vol. 102, no. A6, pp. 11,521-11,532. 1997.\*
- Michael C. Kelley and Clark A. Miller, "Mid-latitude Thermospheric Plasma Physics and Electrodynamics: A Review," *Journal of Atmospheric and Terrestrial Physics*, vol. 59, no. 13, pp. 1643-1654. 1997.\*
- Michael C. Kelley and Clark A. Miller, "The Electrodynamics of Mid-latitude Spread F: 3. Electrohydrodynamic Waves? A New Look at the Role of Electric Fields in Thermospheric Wave Dynamics," *Journal of Geophysical Research*, vol. 102, no. A6, pp. 11,539-11,548. 1997.\*
- J. L. Scali, B. W. Reinisch, M. C. Kelley, C. A. Miller, W. E. Swartz, Q. Zhou, and S. Radicella, "Incoherent Scatter Radar and Digisonde Observations at Tropical Latitudes Including Conjugate Point Studies," *Journal of Geophysical Research*, vol. 102, no. A6, pp. 11,556-11,565. 1997.\*
- T. L. Beach, M. C. Kelley, P. M. Kintner, and C. A. Miller, "Total Electron Content Variations Due to Nonclassical Traveling Ionospheric Disturbances: Theory and Global Positioning System Observations," *Journal of Geophysical Research*, vol. 102, pp. 7279-7292. 1997.\*
- Qina Zhou, John D. Mathews, Qiang Du, and Clark A. Miller, "A Preliminary Investigation of the Pseudo-Spectral Method Numerical Solution of the Perkins Instability Equations in the Homogenous Total Electron Content Case," *Journal of Atmospheric and Solar-Terrestrial Physics*. 67:325-335. 2005.\*
- Qina Zhou, John D. Mathews, Clark A. Miller, and Ilgin Seker, "The Evolution of Nighttime Mid-Latitude Mesoscale F-Region Structures: A Case Study Utilizing Numerical Solution of the Perkins Instability Equations," *Planetary and Space Sciences*. 54:710-718.

#### *Minor Publications*

- Clark A. Miller, "The Soviet Defense Debate: Possible Outcomes and Impacts for NATO," Occasional Paper, Program in Arms Control, Disarmament and International Security, University of Illinois, September. 15 pp. 1989.
- Clark A. Miller, "Changing Perceptions of Soviet Intent," *Swords and Ploughshares: The Bulletin of the Program in Arms Control, Disarmament and International Security at the University of Illinois at Urbana--Champaign*, Vol. 4(3): 12-14. April. 1990.
- Clark A. Miller, "Making Climate Change / Remaking International Relations," submitted as partial fulfillment of a PhD minor in Peace Studies, August. 1993.
- Sheila Jasanoff, Clark A. Miller, and James McCarthy, "Impacts Working Group Theme Paper: Assessing Impacts: Framing, Communication, Credibility," 1997-1998 Global Environmental Assessment Project Working Paper, Kennedy School of Government, Harvard University. 14 pp. 1998.
- Clark A. Miller, "Extending Assessment Communities to Developing Countries," ENRP Discussion Paper E-98-15, Kennedy School of Government, Harvard University, September. 49 pp. 1998.
- Dave Guston, William Clark, Terry Keating, David Cash, Susanne Moser, Clark Miller, and Charles Powers. *Report of the Workshop on Boundary Organizations in Environmental Policy and Science, Rutgers University, December 9-10, 1999* (New Brunswick, NJ: The Environmental and Occupational Health Sciences Institute at Rutgers University and UMDNJ-RWJMS and The Global Environmental Assessment Project). 34 pp. 2000.

Clark A. Miller, "Global Science and Global Governance: The Making of 'Global' Research Policy," prepared for NSF/University of Arizona Workshop on Research Policy as an Agent of Change. 8 pp. October, 2003.

Clark A. Miller, "The Study of Public Reasoning," prepared for NSF Workshop on the Social Sciences and Science Policy. 8 pp. July 2006.

#### *Book Reviews*

Clark A. Miller, "Review of Jonathon Porritt, *Playing Safe: Science and the Environment*," *Environment*. Vol. 43(5): 45. 2001.

Clark A. Miller, "Book review: *Climate Change Policy: A Survey*, Edited by S. H. Schneider, A. Rosencranz, and J. O. Niles." *Journal of Environmental Engineering and Science*. Vol. 2(1): 83-84. 2003.

Clark A. Miller, "Book review: *Atmospheric Pollution: History, Science, and Regulation*, by Mark Z. Jacobson," *Chemical Heritage*, Vol. 21(4): 43. 2003.

#### **Papers Currently Under Review**

Clark A. Miller, "Standards and Community among Greenhouse Gas Scientists," Submitted to *Social Studies of Science*. Revise and resubmit. Revisions in progress.

Jonathan A. Patz, Sarah H. Olsen, Jennifer D'Amico-Hales, and Clark A. Miller, *Biodiversity, Climate Change, Desertification, and Human Health*, Report to the World Health Organization. Under final review.

Clark A. Miller and Sarah K. Pfatteicher, "Nanotechnology in Society Education: Teaching the Mental Habits of Social Engineers and Critical Citizens," in Aldrin Sweeney, ed., *Nanoscale Science and Engineering Education: Issues, Trends, and Future Directions*. Reviewed. Revisions in Progress.

#### **Research Grants:**

2005-2010 David Guston, Clark Miller, Marilyn Carlson, Daniel Sarewitz, and George Poste, "NSEC: Center for Nanotechnology in Society." NSF Nanoscale Science and Engineering Program. Award Period: Oct. 1, 2005-Sept. 30, 2010. Total award: \$6.15 million. (Leader, UW-Madison research team. Amount: \$910,000.)

2005-2008 Jeremi Suri, Clark Miller, Leigh Payne, and Jonathan Patz, "Governing Global Insecurities." UW-Madison Center for World Affairs and the Global Economy Research Collaborative Grant. Amount: \$125,000. Award Period: July 1, 2005-June 30, 2008.

2004-2009 Paul Nealey, Samuel Gellman, Franz Himpfel, Clark Miller, and David Schwarz, "NSEC: Templated Synthesis and Assembly at the Nanoscale." NSF Nanoscale Science and Engineering Program. Award Period: Sept. 1, 2004-Aug. 31, 2009. Total award: \$13.4 million. (Leader, research initiative on societal dimensions of nanotechnology. Amount: \$1.25 million.)

2004-2007 Clark A. Miller, Samer Alatout, Steve Carpenter, Jon Foley, Leila Harris, Tracey Holloway, Marty Kanerak, Nancy Mathews, Gregg Mitman, Javier Nieto, Chris Olson, and Jeremi Suri, "New Research Initiative in Global Environmental Studies: Environment, Health, Security, and Well-being." UW-Madison International Institute. Amount: \$40,000. Award Period: July 1, 2004-June 30, 2007.

2003-2005 Clark A. Miller, "Constituting Nature and Society in the Global Environment," NSF Program in Societal Dimensions of Engineering, Science, and Technology. Amount:

\$130,000. Award Period: Sept. 1, 2003-Aug. 30, 2005. (Collaborative award with S. Jasanoff, Harvard University. Total award amount: \$400,000.)

- 2003-2005 Science Studies Cluster, "Societal and Policy Implications of 'Second-Generation' Medical Biotechnologies," Cluster Enhancement Grant, University of Wisconsin-Madison Chancellor's Office. Amount: \$28,000. Award Period: July 1, 2003 – June 30, 2005.
- 2003-2004 Clark A. Miller, "Nanotechnology policy," University of Wisconsin-Madison Materials Research Science and Engineering Center Seed Grant. Amount: \$16,300. Award Period: Sept. 1, 2003 – May 30, 2003.
- 2002 Clark A. Miller, "Science, technology, and globalization," University of Wisconsin-Madison Center for World Affairs and the Global Economy Faculty Grant. Amount: \$11,000. Award Period: None fixed.
- 2002 Clark A. Miller, "Indicators of Agricultural Sustainability in Wisconsin," University of Wisconsin-Madison Center for Integrated Agricultural Systems Summer Faculty Grant. Amount: \$6,000. Award Period: July 1, 2002 – July 30, 2002.
- 2000-2004 Clark A. Miller, "Indicators of Sustainability: Science and Democracy in the Making," Faculty Early Career Development Award, NSF Program in Societal Dimensions of Engineering, Science, and Technology. Amount: \$200,000. Award Period: July 1, 2000 – June 30, 2004.
- 1996-2000 Sheila Jasanoff, Stephen Hilgartner, Judith Reppy, and Clark A. Miller, "Sustainable Knowledge about the Global Environment," NSF Ethics and Values Studies Program. Amount: \$309,000. Award Period: September 1, 1996 – August 31, 2000.
- 1995-1996 Clark A. Miller and Sheila Jasanoff, "Measuring Greenhouse Gas Emissions: Science in Global Environmental Politics," NSF Ethics and Values Studies Program. Amount: \$45,000. Award Period: September 1, 1995 – August 31, 1996.

#### **Service and Professional Activities:**

Workshops and Conference Panels Organized:

- June, 2006 Conference (with Sheila Jasanoff, Rob Hagendijk, Daniel Barben, and David Guston): "Science and Democracy," Science and Democracy Network, 5<sup>th</sup> Annual Meeting, Cambridge, MA.
- Oct., 2005 Conference Panels (with Cyrus Mody), "Interrogating Nanotechnology," Society for Social Studies of Science Annual Meeting, Los Angeles, CA.
- June, 2005 Conference (with Sheila Jasanoff, Rob Hagendijk, Daniel Barben, and David Guston): "Science and Democracy," Science and Democracy Network, 4<sup>th</sup> Annual Meeting, Cambridge, MA.
- Apr., 2005 Symposium: "Earth Day 2005: A Reconsideration of Human and Environmental Vulnerability." Madison, WI.
- Aug., 2004 Conference Panels (with Alastair Iles, Rebecca Ellis, and Claire Waterton), "Civic epistemology," Society for Social Studies of Science Annual Meeting, Paris, France.
- July, 2004 Conference (with Sheila Jasanoff, Rob Hagendijk, Daniel Barben, and David Guston): "Science and Democracy," Science and Democracy Network, 3<sup>rd</sup> Annual Meeting, Cambridge, MA.
- June, 2003 Conference (with Sheila Jasanoff, Rob Hagendijk, Daniel Barben, and David Guston): "Science and Democracy," Science and Democracy Network, 2<sup>nd</sup> Annual Meeting, Cambridge, MA.

- Feb., 2003 Conference Panel: "Science and Technology Policy and Its Publics: Challenges for Democracy," American Association for the Advancement of Science Annual Meeting, Denver, CO.
- Nov., 2002 Conference Panel: "Democratic Governance in a Technological World," Society for Social Studies of Science Annual Meeting, Milwaukee, WI.
- Feb., 2002 Conference Panel (with Rachele Hollander): "The Search for a Common Future: Communicating about Global Sustainability," American Association for the Advancement of Science Annual Meeting, Boston, MA.
- Nov., 2001 Conference Panels (with Geoff Bowker, Astrid Scholz, and Marybeth Long): "Envisioning Ecofutures," Society for Social Studies of Science Annual Meeting, Cambridge, MA.
- Feb, 2001 Conference Panel (with Virginia Walsh): "The Dynamics of Social Institutions and Knowledge in Global Environmental Governance," International Studies Association Annual Meeting, Chicago, IL.
- Oct, 2000 Conference Panels (with Astrid Scholz, Marybeth Long, and Alastair Iles): "The Globalization of Nature and Politics: Perspectives from STS," Society for Social Studies of Science Annual Meeting, Vienna, Austria.
- April, 2000 Conference (with Sheila Jasanoff, Marybeth Long, and Charis Cussins): "Local Knowledge and its Global Consequences: New Perspectives on Environment and Development," Harvard University.
- Oct, 1999 Conference Panel: "Remaking Life and World: The Biological Sciences and World Politics," Society for Social Studies of Science Annual Meeting, San Diego, CA.
- Feb, 1999 Conference Panel (with Stacy VanDeveer): "Science, Democratization, and Environment: Cross-Disciplinary Perspectives," International Studies Association Annual Meeting, Washington, DC.
- Nov, 1998 Workshop (with Sheila Jasanoff): "States of Knowledge: Science, Power, and Political Culture," John F. Kennedy School of Government, Harvard University, Cambridge, MA.
- June, 1998 Working Group (with Sheila Jasanoff and James McCarthy): "Impacts Assessment," Harvard Global Environmental Assessment Project Annual Meeting, Bar Harbor, ME.
- Dec, 1997 Workshops (with Sheila Jasanoff): "Science and the State" and "Observations of Nature," Department of Science and Technology Studies, Cornell University, Ithaca, NY.
- Oct, 1997 Conference Panel (with Paul Edwards): "Changing the Atmosphere," Society for Social Studies of Science Annual Meeting, Tucson, AZ.
- June, 1997 Working Group (with Global Environmental Assessment Team): "Assessment as a Communications Process," Harvard Global Environmental Assessment Project Annual Meeting, Bar Harbor, ME.
- Sept, 1995 Session Chair, "Climate communications in politics," Conference on Climate Communciation, Zentrum fur Interdisziplinare Forschung, Bielefeld, Germany.
- Oct, 1994 Conference Panel (with Paul Edwards): "Representing Global Climate Change: Atmospheric Science and Environmental Politics," Society for Social Studies of Science Annual Meeting, New Orleans, LA.
- April, 1994 Conference Panel: "Thick Mediations: Science and Politics," The Nature of Science Studies Workshop, Department of Science and Technology Studies, Cornell University, Ithaca, NY (with Florian Charvolin).

Professional Service:

Member: American Geophysical Union; Society for Social Studies of Science; International Studies Association, American Association for the Advancement of Science, Association for Public Policy and Management.

Journal Referee: *Science, Technology and Human Values; Social Studies of Science; Public Understanding of Science; Journal of Geophysical Research; American Sociological Review; Environmental Management; Environmental Politics; Global Environmental Politics; Governance; Science Communication; Global Governance; Ecology and Society.*

Manuscript Referee: *Westview Press; MIT Press; Routledge; Harvard University Press; University of Wisconsin Press.*

Assessment Referee: *Millennium Ecosystem Assessment.*

Proposal Referee: *US National Science Foundation; UK Economic and Social Research Council; McArthur Foundation.*

- 2006 Member, Advisory Panel, Citizens Consensus Conference on Nanotechnology and the Environment, Santa Clara University, May.  
Member, Advisory Panel, Nano and Bio in Society Conference, Chicago, March.
- 2005 Member, Organizing Committee, Science and Democracy Network. Co-organizer, Annual Workshop Series on Science and Democracy, Kennedy School of Government, Harvard University.
- 2004 Member, Organizing Committee, Science and Democracy Network. Co-organizer, Annual Workshop Series on Science and Democracy, Kennedy School of Government, Harvard University.
- 2003 Consultant, UN Environment Programme. Mid-project evaluation of the UN Millennium Ecosystem Assessment.  
Member, Program Committee, Annual Meeting, Society for Social Studies of Science.  
Member, Organizing Committee, Science and Democracy Network. Co-organizer, Annual Workshop Series on Science and Democracy, Kennedy School of Government, Harvard University.
- 2002 Member, Program Committee, Annual Meeting, Society for Social Studies of Science.
- 2000-2002 Member, Visions Committee, Society for Social Studies of Science.
- 2001 Member, Editorial Search Committee, *Social Studies of Science.*
- 1994-1995 Member, Science Steering Committee, Program in Coupling, Energetics, and Dynamics of Atmospheric Regions, National Science Foundation.

University Service:

- 2005-2008 Elected, At-large Member, Governance Faculty, Gaylord Nelson Institute for Environmental Studies, UW-Madison.
- 2005-2006 Member, Steering Committee, Science & Technology Studies Program, University of Wisconsin-Madison.  
Member, Air Resources Management Committee, Gaylord Nelson Institute for Environmental Studies, University of Wisconsin-Madison.  
Member, Admissions Committee, La Follette School of Public Affairs, University of Wisconsin-Madison.  
Member, Academic Planning Council, Gaylord Nelson Institute for Environmental Studies, University of Wisconsin-Madison.

- 2004-2005 Member, Steering Committee, Science & Technology Studies Program, University of Wisconsin-Madison.
- Member, Admissions Committee, La Follette School of Public Affairs, University of Wisconsin-Madison.
- Member, Air Resources Management Committee, Gaylord Nelson Institute for Environmental Studies, University of Wisconsin-Madison.
- 2003-2004 Member, Steering Committee, Science & Technology Studies Program, University of Wisconsin-Madison.
- Member, Air Resources Management Committee, Gaylord Nelson Institute for Environmental Studies, University of Wisconsin-Madison.
- Organized and conducted “Teaching beyond the facts” workshop for engineering TAs, to introduce them to teaching history, ethics, and society in the engineering classroom. University of Wisconsin-Madison. January.
- 2002-2003 Member, Search Committee, International Environmental Affairs and Global Security Cluster, University of Wisconsin-Madison.
- Member, Search Committee, Stem Cells and Regenerative Medicine Cluster, University of Wisconsin-Madison.
- Member, Admissions Committee, La Follette School of Public Affairs, University of Wisconsin-Madison.
- Member, Master of International Public Affairs Curriculum Committee, La Follette School of Public Affairs, University of Wisconsin-Madison.
- Member, Steering Committee, Science & Technology Studies Program, University of Wisconsin-Madison.
- 2001-2002 Member, Teaching and Curriculum Committee, La Follette School of Public Affairs, University of Wisconsin-Madison.
- Member, Steering Committee, Science & Technology Studies Program, University of Wisconsin-Madison.
- 2000-2001 Member, Science, Technology, and Society Doctoral Dissertation Award Committee, Program in Science, Technology, and Society, Iowa State University.
- Member, Ad Hoc Committee to Establish a Science and Society Initiative, College of Liberal Arts and Sciences, Iowa State University.
- Member, MPA Committee, Department of Political Science, Iowa State University.
- 1999-2001 Member, Faculty Senate, Iowa State University. Served on Senate Council on University Resource Policies and Allocations and as informal secretary for LAS Caucus, 2000-2001.
- Member, Graduate Committee, Department of Political Science, Iowa State University.
- 1999-2000 Member, Public Administration Search Committee, Department of Political Science, Iowa State University.
- Public Outreach:
- 2006 Presentation, “Nano Café,” Madison, July.
- Seminar, “Technology and Privacy: Future Challenges,” Wisconsin Legislative Council, February.
- 2005 Seminar, “Scientific Freedom and Democratic Politics: The Politicization of Science and Knowledge in U.S. Policymaking,” Wisconsin Library Association Conference, October.
- WPR, University of the Air, “Nanotechnology in Society,” October.

WORT, Interview, "The Death of Environmentalism Revisited," July.

WPR, University of the Air, "Surviving a Nuclear Future: Policy," (with Jeremi Suri) May.

Member, Expert Panel, Citizens' Consensus Conference on Nanotechnology, UW-Madison Center for Nanotechnology in Society, April.

Seminar, "Personalizing Risk: The Policy Impacts of Nanotechnology," UW-Madison Air Resources Management Colloquium, April.

Seminar, "The Past and Future of Nuclear Non-Proliferation," Panel on Nuclear Issues in an Age of Globalization, UW-Madison, April.

2003 Lecture, "Living in a Technological World," UW Fox Valley, November.

Discussion Leader, "The Research Revolution: Science and the Shaping of Modern Life," session on climate change, L.D. Fargo Public Library, Lake Mills, WI, April.

Lecture, "Governing a Fragile, Patchwork Planet," Marion College, March.

2002 Lecture, "Climate Change and the Future: Critical Choices," La Follette Critical Choices series, Madison, WI, January. Talk also presented at Central Madison Lions Club, Madison, WI, March.

Lecture, "International Regulation of Biological Risks," La Follette 20/20 Series on Food Security, Madison, WI, February.

2001 Lecture on Climate Change and Environmental Stewardship, St. John's Episcopal Church, Ames, IA, March.

2000 Program on Environmental Stewardship, Bethesda Lutheran Church, Ames, IA, May.

#### Professional Development Activities:

Attendee, Center for Teaching Excellence, Iowa State Univ., Annual workshop, Aug. 18-19, 1999.

Participant, Project LEA/RN, Iowa State Univ., Monthly working group for teachers, 1999-2000.

Participant, Human Subjects Research Assurance Training, Iowa State Univ., Sept. 19, 2000.

#### Teaching, Principal Areas:

Science and technology policy

Politics of science and technology

Environmental policy and governance, especially international

Science, technology, and society

International governance and organization

#### Teaching Experience:

1998-1999 Mentored student in junior tutorial, including independent study, development and completion of major research paper. Department of History of Science. Harvard University.

- 1999-2001 Taught a range of courses in science, technology, and environmental policy; the politics of scientific and technical knowledge; comparative public policy; and international organization. Department of Political Science, Iowa State University.
- 2001-present Taught a range of courses in science, technology, and environmental policy; science, technology and society; political theories of science and technology; and globalization and international governance. La Follette School of Public Affairs. University of Wisconsin-Madison.
- 2004-2006 Led the development, organization, and implementation of a semester-long graduate student teacher training program for future faculty in natural and social sciences who wish to teach subjects in science, technology, and society. Developed under NSF grant (listed below) for teaching nanotechnology and society. Seven participants to date.

**Teaching Grant:**

- 2004-2006 Clark A. Miller, Wendy Crone, Eric Schatzberg, and Karin Ellison, “An Integrated Approach to Teaching Nanotechnology and Society,” NSF Nanoscale Undergraduate Education Program. Amount: \$100,000. Award Period: July 1, 2004-June 30, 2006.

**Invited Lectures:**

- 2006 Miller, C. A., “Think Differently! Strategies for Success in Nano.” Food Research Institute Conference on Nanotechnology and Food, University of Wisconsin-Madison.
- Miller, C. A., “Opportunities in Science Policy.” Women in Science and Engineering Leadership Conference. University of Wisconsin-Madison.
- Miller, C. A., “Nanotechnology in Society Education: Teaching the Mental Habits of Social Engineers and Critical Citizens,” Materials Research Society Meeting, San Francisco, CA.
- Miller, C. A., “Nanotechnology in Society Research at the University of Wisconsin.” NSF Workshop on Nanotechnology in Society. Washington, DC.
- Miller, C. A., “Nanotechnology in Society,” Ohio State University.
- Miller, C. A., “Science, Democratization, and Global Governance,” Arizona State University.
- 2005 Miller, C. A., “Linking Natural and Social Scientists: Nanotechnology Research Programs at the University of Wisconsin” Conference on Nanomaterials, European Centre for Ecotoxicology and Toxicology of Chemicals, Barcelona.
- Miller, C. A., “Societal Implications of Emerging Nanotechnologies,” Nanotechnology and Environmental Policy Conference, University of California-Santa Cruz and Silicon Valley Toxics Coalition.
- Miller, C. A., “Tensions in Electoral Representation in a New Age of Machine Politics,” Machineries of Representation Workshop, Kennedy School of Government, Harvard University.
- Miller, C. A., “Beyond Kyoto: Negotiating a Climate End Game,” Chicago Council on Foreign Relations.

- 2004 Miller, C. A., "Constituting Reason, Securing Legitimacy: Expert Institutions as Proto-Democratic Experiments in International Governance," Shifting Boundaries in Science Policy Conference, Wissenschaftszentrum Berlin.
- Miller, C. A., "Constituting Reason, Securing Legitimacy: Expert Institutions as Proto-Democratic Experiments in International Governance," Program in Science and Technology Studies, University of Amsterdam.
- Miller, C. A., "Regional Scientific Assessments to Strengthen Global Civil Society," Bridging Scales and Epistemologies: Linking Local Knowledge with Global Science in Multi-Scale Assessments Conference, Bibliotheca Alexandrina.
- Miller, C. A., "Science Advice and Global Governance: Challenges and Approaches," Interdisciplinary Conference on Science and Environmental Regulation, University of California-Los Angeles.
- Miller, C. A., "The Origins of Postwar American Foreign Policy for Science, 1938-1953," Workshop on Science, Technology, and International Affairs, Georgetown University.
- 2003 Miller, C. A., "Visual Imaginaries and the Politics of Planet Earth," Silicon, Carbon, Culture Symposium, University of Illinois.
- Miller, C. A., "Living in a Technological World: S&TS and Engineering after 9/11," Conference on Connecting Science & Technology Studies: Academy, Polity, World, Cornell University.
- 2002 Miller, C. A., "The Future of Climate Policy," Department of Civil and Environmental Engineering, Washington State University.
- Miller, C. A., "The Role of Experts in International Environmental Governance," Sustainability Studies Lecture Series, Center for Sustainability and the Global Environment, University of Wisconsin, Madison.
- 2001 Miller, C. A., "Science, Technology, and Anti-Globalization," Department of Rural Sociology, University of Wisconsin, Madison.
- 1999 Miller, C. A., "Alternative Strategies for Globalizing Science? A Comparative Study of Expert Advisory Institutions for Climate Change and Biodiversity," Atmospheric Science Seminar, Iowa State University.
- Miller, C. A., "The Global Reconstruction of Climate Science and Politics," Department of Political Science, Iowa State University.
- VanDeveer, S. and C. A. Miller, "Framing Questions and Issues: Grappling with Meaning, History and Conflict in Assessment Discourses," Global Environmental Assessment Seminar, Harvard University.
- 1996 Miller, C. A., "Equity or Epistemology? Towards a Post-Constructivist Ethics of Climate," Department of Science and Technology Studies, Cornell University.
- 1995 Miller, C. A., Accounting for Climate Change: International Politics and the Science of Measuring Methane, Center for Science and International Affairs, Harvard University.
- Miller, C. A., "Experimental and Theoretical Evidence for Gravity Wave Electric Fields at Mid-latitudes," Physics Department, Dartmouth College, Hanover, NH.

**Conference Presentations:**

- 2006 Miller, C. A., "Governmentality and the Globe: The Emergent Politics of Vulnerability." Workshop on STS and Political Ecology. University of Wisconsin-Madison.

- Miller, C. A., "Science Fiction as Technology Assessment," WISCON 30. Madison, WI.
- 2005 Miller, C. A., "Comparative Perspectives on the Governance of Emerging Technologies: Lessons for Nanotechnology," Society for Social Studies of Science Annual Meeting, Los Angeles, CA.
- Miller, C. A., "Comparative Perspectives on the Governance of Emerging Technologies: Lessons for Nanotechnology," American Political Science Association Annual Meeting, Washington, DC.
- 2004 Miller, C. A., "The Civic Epistemology of American Elections," Society for Social Studies of Science Annual Meeting, Paris, France.
- 2003 Miller, C. A., "Science and Global Sustainability: Where Do We Go Next?" Society for Social Studies of Science Annual Meeting, Atlanta, GA.
- Miller, C. A., "The Origins of American Foreign Policy for Science, 1938-1953," Symposium on the Politics of Science in America. Department of History of Science, University of Wisconsin-Madison.
- Miller, C. A., "Building Scientific Advisory Institutions in a Plural World," Law and Society Annual Meeting, Pittsburgh, PA.
- 2002 Miller, C. A., "Technology, Democracy, and Globalization," Society for Social Studies of Science Annual Meeting, Milwaukee, WI.
- Miller, C. A., "Science and Democracy in a Globalizing World," Workshop on Science and Democracy, Wissenschaftskolleg zu Berlin.
- Miller, C. A., Participant in a roundtable discussion "Regulation and Governmentality," Law and Society Association annual meeting, Vancouver.
- Miller, C. A., "The Search for World Order: Globalism and the Regulatory Imagination," Cain Conference, Chemical Heritage Foundation, Philadelphia, PA.
- Miller, C. A., "Coproducts: A Theoretical Disposition for the Study of Knowledge and Order," International Studies Association annual meeting, New Orleans.
- Miller, C. A., "Science Advice for Global Sustainability," American Association for the Advancement of Science Annual Meeting, Boston, MA.
- 2001 Miller, C. A., "'No Reasonable End': Stability and Instability in the 2000 Presidential Election," Society for Social Studies of Science Annual Meeting, Cambridge, MA.
- Miller, C. A., "Relocalizing Earth Systems Discourse: Applying Climate Predictions to Regional Policy," Localizing and Globalizing: Knowledge Cultures of Environment and Development Workshop, Harvard University.
- Miller, C. A., "Indicators of Sustainability: Science and Democracy in the Making," International Studies Association Annual Meeting, Chicago, IL.
- 2000 Miller, C. A., "Shifting Power: The Order of Nature and the Constitution of World Order," Society for Social Studies of Science Annual Meeting, Vienna.
- Miller, C. A., "Standardizing the World: Science and Power in Environmental Governance," Local Knowledge and its Global Consequences Workshop, Harvard University.
- 1999 Miller, C. A., "Managing Hybrids: Some Considerations of the Functions of Boundary Organizations in Science Policy," Workshop on Boundary Organizations in Environmental Policy and Science, Rutgers University.

- Miller, C. A., "Alternative Strategies for Globalizing Science? A Comparative Study of Expert Advisory Institutions for Climate Change and Biological Diversity," Society for Social Studies of Science Annual Meeting, San Diego, CA.
- Miller, C. A., "'An Effective Instrument for Peace,' Science and American Foreign Policy after World War II," Midwest International Studies Association Meeting, Des Moines, IA.
- Miller, C. A., "Matters of Account: The Politics of Greenhouse Gas Indices," Global Environmental Assessment Fellow's Research Meeting, Harvard University.
- Miller, C. A., "Wielding Environmental Expertise in Emerging Democracies: Can Publicly Accountable States Pursue Effective Policies?" International Studies Association Annual Meeting, Washington, DC.
- 1998 Miller, C. A., "Undermining the Postwar Settlement: The Reconstruction of Climate Science and Global Order," States of Knowledge Workshop, Harvard University, Cambridge, MA.
- Miller, C. A., "Monitoring the UN Framework Convention on Climate Change: Expertise, Objectivity, and Statehood in International Governance," International Studies Association Annual Meeting, Minneapolis, MN.
- 1997 Miller, C. A., "Does climate warrant global protection? Scientific knowledge and moral order in international governance; a ten-year review of the Intergovernmental Panel on Climate Change," Science and the State Workshop, Department of Science and Technology Studies, Cornell University, Ithaca, NY.
- Miller, C. A., "Scientific Internationalism and Postwar American Foreign Policy: Worldwide Cooperation in Meteorology from the World Meteorological Organization to the International Geophysical Year (1945-1960)," Society for Social Studies of Science Annual Meeting, Tucson, AZ.
- Miller, C. A., M. C. Kelley, and F. Garcia, "Large-scale Electro-hydrodynamics at Mid-latitudes: Recent Observations and Implications," CEDAR HLPS/S-RAMP GAPS Workshop, Peaceful Valley, CO.
- 1996 Miller, C. A., "Changing Roles for Experts in International Environmental Politics, Environment and Natural Resources PhD Seminar Series, Kennedy School of Government, Harvard University.
- Miller, C. A., "Prediction, Detection, Intervention: Trusting Experts in an Apocalyptic Age," Simulation Knowledge Workshop, Cornell University, Ithaca, NY.
- Miller, C. A. and M. C. Kelley, "Electrobuoyancy Waves: The Perkins Electrodynamics Response to Thermospheric Gravity Waves," National Radio Science Meeting of the International Union of Radio Science (URSI), Boulder, CO.
- Miller, C. A., "Utilizing Instrument Clusters around Incoherent Scatter Radars: Two-dimensional Estimates of Ionospheric Height and Electric Field," National Radio Science Meeting of the International Union of Radio Science (URSI), Boulder, CO.
- 1995 Miller, C. A., "The Role of Participation in the Intergovernmental Panel on Climate Change," Conference on Climate Communications as a Research Subject in the Social Sciences, Bielefeld, Germany.
- Miller, C. A. and M. C. Kelley, "The Electrodynamics of Nighttime, Medium-Scale Travelling Ionospheric Disturbances, CEDAR Annual Meeting, Boulder, CO.
- J. Rosado-Roman, C. A. Miller, W. E. Swartz, and D. T. Farley, "Altitude Characteristics of Sporadic E Layers Measured by Coincident Coherent and Incoherent Scatter Radars," CEDAR Annual Meeting, Boulder, CO.

- Miller, C. A., J. Rosado-Roman, W. Swartz, M. Kelley, and M. Wysocki, "Sporadic E and Lightning—What is the Connection?" National Radio Science Meeting of the International Union of Radio Science (URSI), Boulder, CO.
- Rosado-Roman, J., C. A. Miller, W. E. Swartz, and D. T. Farley, "Simultaneous Incoherent and Coherent Scatter Radar Observations of Mid-latitude Sporadic E Layers and Instabilities," International Symposium on Equatorial Aeronomy, Bali, Indonesia.
- 1994 Miller, C. A., M. Kelley, W. Swartz, M. Mendillo, D. Nottingham, J. Scali, and B. Reinisch, "Observations of Gravity-wave Induced Ionospheric Electric Fields at Mid-Latitudes," American Geophysical Union Fall Meeting, San Francisco, CA.
- Nottingham, D., M. Mendillo, J. Baumgardner, M. Kelley, and C. Miller, "6300 Angstrom Airglow Wave Structure From Arecibo in January 1993," American Geophysical Union Fall Meeting, San Francisco, CA.
- Miller, C. A., "Coproducting Climate Science and International Order: The Intergovernmental Panel on Climate Change," Society for Social Studies of Science Annual Meeting, New Orleans, LA.
- Miller, C. A., M. Kelley, W. Swartz, M. Taylor, M. Mendillo, Q. Zhou, J. Scali, F. Garcia, J. Rosado, and T. Alexander, "Results from Arecibo January 1993 10 Day Experiment," CEDAR Annual Meeting, Boulder, CO.
- Miller, C. A., Hobbesian (Political) Science: "Coproducting Knowledge and Organization in International Politics," Cornell University Peace Studies Program Dinner Research Seminar, Ithaca, NY.
- 1993 Miller, C. A., M. C. Kelley, M. Taylor, and M. Mendillo, "New Studies in Mid-latitude Electrodynamic," NAIC Internal Symposium, Arecibo Observatory, Arecibo, PR.
- 1992 Walchli, U., J. Stegman, G. Witt, J. Y. N. Cho, C. A. Miller, M. C. Kelley, and W. E. Swartz, "NLC and PMSE observations by the CUPRI radar and by optical electrical instruments on the night of the 9/10 August during the NLC-91 campaign," COSPAR symposium C.2-S, The World Space Congress, Washington, DC.