

DANIEL R. SAREWITZ

Curriculum Vitae

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CURRENT POSITION

- Professor of Science and Society, School of Life Sciences and School of Sustainability; Director, Consortium for Science, Policy, and Outcomes; Associate Director, Center for Nanotechnology in Society; Arizona State University, Tempe, AZ.

PAST POSITIONS

1998-2003 Director, Center for Science, Policy and Outcomes, Washington, DC; Senior Research Scholar, Columbia University, New York, NY.

Built a new center to foster better understanding and more effective public policy decisions about science and its linkages to social outcomes. Designed and implemented research, education, and outreach programs aimed at understanding and improving the connections between scientific research, public policy, and societal benefit. Wrote about science and society issues for scholarly and general audiences. Developed and carried out fundraising and strategic communication campaigns. Oversaw all aspects of the Center's operations, including strategic planning, research teams, government relations, written products, hiring, budget, web site, etc. Taught U.S. Science and Technology course at Columbia University School for International and Public Affairs.

Major issue areas: environmental policy and global change; science and decision-making; governance of science and technology; social impacts of technological innovation.

1995-1998 Director, Institute for Environmental Education, Geological Society of America, Boulder, CO.

Developed and implemented environmental and public policy programs for a 15,000 member professional society, aimed at increasing the contribution of the earth sciences to the resolution of environmental and policy problems. Raised funds to support general operations and projects.

1993-1995 Independent Scholar

Koror, Palau: July 1993-July 1995

Nonfiction: **Frontiers of Illusion: Science, Technology, and the Politics of Progress** (Temple University Press, 1996).

Fiction: **The Subatomic Particle of Love** (completed; unpublished).

- 1991-1993 Science Consultant, Committee on Science, Space, and Technology, U.S. House of Representatives, Washington, DC.
 Advisor to, principal speechwriter for Chairman George E. Brown, Jr.
Policy Focus: Federal science and technology policy; science education; international scientific cooperation; natural hazard mitigation.
Responsibilities: designed and coordinated Full Committee science policy initiatives; wrote speeches, op-ed pieces, floor statements, articles, letters, legislation; maintained liaison with scientific community; organized hearings, briefings, etc.; coordinated Task Force on the Health of Research and establishment of the U.S.-Mexico Foundation for Science.
- 1989-1990 Science Fellow, Office of Congressman George E. Brown, Jr., U.S. House of Representatives, Washington, DC. (Sponsored by Geological Society of America and American Association for the Advancement of Science)
 Science advisor to the Congressman.
- 1986-1989 Postdoctoral Research Associate, Cornell University, Department of Geological Sciences, Ithaca, NY.
Research focus: structure and tectonics of convergent and oblique plate boundaries; evolution of thrust belts; convergent margin basin genesis and evolution.
Field areas: Argentine Andes (9 months field work in 1986), Philippines (Co-Chief Scientist on Research Vessel MOANA WAVE, Spring 1988), Soviet Central Asia/Tajikistan (Summer, 1989).
Academic responsibilities: taught undergraduate courses; supervised graduate students; received two NSF grants to support research projects.
- 1986-1989 Lecturer, Cornell University, Department of Geological Sciences, Ithaca, NY.
- 1981-1985 Research Assistant, Cornell University, Department of Geological Sciences, Ithaca, NY.
 Investigated processes of mountain building and basin evolution, Mindoro Island, Philippines (6 months total field work in 1983 and 1984).
- 1979-1980 Staff Engineer, Foster Miller Associates, Waltham MA.
 Studied techniques for coal dust suppression and fire control in mines. Wrote proposals and technical reports.

EDUCATION

- 1986 Ph. D., Geological Science, Cornell University
 1983 M.S., Geology, Oregon State University
 1978 B.S., Haverford College

PROFESSIONAL SERVICE, HONORS AND AFFILIATIONS

- 2007-2008 Templeton Research Fellow on Religion and Transhumanism, Arizona State University
- 2006- Fellow, American Association for the Advancement of Science
- 2005- Science and Society Editorial Board, Earthscan.
- 2002-2003 Geological Society of America Distinguished Speaker in Geology and Public Policy
- 2001-2004 Founding Member, Washington Science Policy Alliance
- 2001-2003 Member, Climate Research Committee, National Research Council
- 2001-2002 Member, Committee on Assessment of Future Savings from Mitigation Activities, Multihazard Mitigation Council
- 1999-2000 Member, Committee on Future Roles, Challenges and Opportunities for the USGS, National Research Council
- 1996- Fellow, Geological Society of America
- 1990-1993 Member, Committee on Public Policy, Geological Society of America

COURSES TAUGHT

- 2005- Arizona State University: Science, Technology, and Public Affairs; Uncertainty and Decision Making
- 2003 Columbia University: U.S. Science and Technology Policy
- 1987-1988 Cornell University: Sedimentation and Stratigraphy

SELECTED POLICY-RELATED PUBLICATIONS

Books

Guston, D. H. and D. Sarewitz (eds.) (2006). **Shaping Science and Technology Policy: The Next Generation of Research.** Madison, WI: University of Wisconsin Press.

Lightman, A., D. Sarewitz and C. Desser (eds.) 2003. **Living with the Genie: Essays on Technology and the Quest for Human Mastery.** Washington, DC: Island Press.

Sarewitz, D., R.A. Pielke, Jr., and R. Byerly, Jr. (eds.) 2000. **Prediction: Science, Decision Making, and the Future of Nature.** Washington, DC: Island Press.

Sarewitz, D. 1996. **Frontiers of Illusion: Science, Technology and Politics of Progress**. Philadelphia: Temple University Press.

Articles and Book Chapters

Sarewitz, D., and R.R. Nelson (in press). On the Power and Limits of Human Know-how, *Innovations*.

Sarewitz, D. and R.A. Pielke, Jr. 2008. The Steps Not Yet Taken, in: D. Kleinman, K. Cloud-Hansen, C. Matta, and J. Handelsman, **Controversies in Science and Technology, vol. 2, From Climate to Chromosomes**. New York: Mary Ann Liebert, Inc, pp. 329-351.

Sarewitz, D. 2007, Does Science Policy Matter? *Issues in Science and Technology*, Summer, pp. 31-38.

Woodhouse, E. and D. Sarewitz 2007. Science Policies for Reducing Societal Inequities, *Science and Public Policy* v. 34(2): 139-150.

Sarewitz, D. and Pielke, R.A. Jr. 2007. The Neglected Heart of Science Policy: Reconciling Supply of and Demand for Science, *Environmental Science and Policy* v. 10: 5-16

Pielke, R.A. Jr., Prins, G., Rayner, S., and Sarewitz, D. 2007. Lifting the Taboo on Adaptation, *Nature* v. 445 (8): 597-598.

Sarewitz, D. 2007, Five Questions, in: J.K.B. Olsen, and E. Selinger, **Philosophy of Technology**, Copenhagen: Automatic/VIP, pp. 171-182.

Bennett, I. and D. Sarewitz 2006. To Little, Too Late?: Research Policies on the Societal Implications of Nanotechnology in the United States, *Science as Culture* v. 15(4): 309-325.

Garfinkle, M.S., D. Sarewitz, and A. Porter 2006. A Societal Outcomes Map for Health Research and Policy, *American Journal of Public Health* v. 96(3): 441-446.

Sarewitz, D. and R.A. Pielke, Jr. 2005. Discussion: Response to Lovbrand and Oberg, *Environmental Science and Policy* v. 8: 199-200.

Pielke, Jr., R.A., and Sarewitz, D 2005. Bringing Society Back into the Climate Debate, *Population and Environment*, v. 26(3): 255-268.

Sarewitz, D. 2005. Articles on: Uncertainty; Hazards; Prediction; Gaia; Affluence; and Governance of Science and Technology, in C. Mitcham (ed.) **Encyclopedia of Science, Technology, and Ethics**, Farmington Hills, MI, Macmillan.

Bozeman, B. and D. Sarewitz 2005. Public Value Failures and Science Policy, *Science and Public Policy*, v. 32(2): 119-136.

- Sarewitz, D. and Pielke Jr., R. 2005 Rising Tide: The Tsunami's Real Cause, *The New Republic*, January 17, pp. 10-12.
- Sarewitz, D., G. Foladori, N. Invernizzi, and M. Garfinkel 2004. Science Policy in its Social Context, *Philosophy Today*, v. 48(5): 67-83.
- Lempert, R., N. Nakicenovic, D. Sarewitz, and M. Schlesinger 2004. Characterizing Climate-Change Uncertainties for Decisionmakers, *Climatic Change* v. 65, pp. 1-9.
- Sarewitz, D. 2004. How Science Makes Environmental Controversies Worse, *Environmental Science and Policy* v. 7: 385-403.
- Garfinkle, M.S. and D. Sarewitz 2003. Parallel Path: Poliovirus Research in the Vaccine Era, *Science and Engineering Ethics* v. 9(3): 319-338.
- Sarewitz, D. 2003. Science and Happiness, Chapter in A. Lightman, D. Sarewitz and C. Desser (eds.). **Living with the Genie: Essays on Technology and the Quest for Human Mastery**, Washington, DC: Island Press, pp. 181-200.
- Sarewitz, D. and E. Woodhouse 2003. Small is Powerful, Chapter in A. Lightman, D. Sarewitz and C. Desser (eds.). **Living with the Genie: Essays on Technology and the Quest for Human Mastery**, Washington, DC: Island Press, pp. 63-83; reprinted as:
- Sarewitz, D., R.A. Pielke, Jr. and M. Keykhah 2003. Vulnerability and Risk: Some Thoughts from a Political and Policy Perspective, *Risk Analysis*, v. 23(4), pp. 805-810.
- Sarewitz, D. 2003. Science and Technology Policies for the Environment, Chapter in **AAAS Science and Technology Policy Yearbook 2003**, Washington, DC: AAAS, ch. 12.
- Pielke, Jr., R. A. and D. Sarewitz 2003. Wanted: Scientific Leadership on Climate, *Issues in Science and Technology*, Winter, pp. 27-30.
- Guston, D.H. and D. Sarewitz 2002. Real-Time Technology Assessment, *Technology in Society*, v. 24, pp. 93-109.
- Sarewitz, D. 2002. Defining What we Need to Know, Chapter in **Engineering and Environmental Challenges: A Technical Symposium on Earth System Engineering**, Washington, DC: National Academy Press, pp. 67-72.
- Sarewitz, D. 2001. Selected Commentaries, in N. Mirovitskaya and W. Ascher (eds.). **Guide to Sustainable Development and Environmental Policy**, Durham, NC: Duke University Press.
- Crow, M. and D. Sarewitz 2001. Nanotechnology and Societal Transformation. Chapter in: M. Roco and W.S. Bainbridge (eds.). **Societal Implications of Nanotechnology**. Boston: Kluwer Academic Publishers, pp. 55-67; reprinted in A. Teich, S. Nelson, C. McEnaney, and S. J. Lita (eds.). **AAAS Science and Technology Policy Yearbook 2001**. Washington, DC: AAAS, pp. 55-67.

Sarewitz, D. and R. A. Pielke, Jr. 2001. Extreme events: a research and policy framework for disasters in context, *International Geology Review*, v. 43, pp. 406-418.

Guston, D. H., E. J. Woodhouse, and D. Sarewitz 2001. A Science and Technology Policy Focus for the Bush Administration, *Issues in Science and Technology*, v. 17, Spring, pp. 29-32. Reprinted in A. Teich, S. Nelson, and S. Lita, (eds.), **AAAS Science and Technology Policy Yearbook 2002**, Washington, DC: AAAS, 2002.

Sarewitz, D. and R. A. Pielke, Jr. 2000. Breaking the Global Warming Gridlock, *The Atlantic Monthly*, July, pp. 54-64.

Pielke, Jr., R. A., R. A. Klein, and D. Sarewitz 2000. Turning the Big Knob: An Evaluation of the Use of Energy Policy to Modulate Future Climate Impacts, *Energy and Environment*, v. 11, pp. 255-276.

Herrick, C. and D. Sarewitz. 2000. Ex Post Evaluation: A More Effective Role for Scientific Assessments in Environmental Policy, *Science, Technology, and Human Values*, v. 25, pp. 309-331.

Sarewitz, D. 2000. Human Well-being and Federal Science—What's the Connection?, Chapter in D.L. Kleinman, (ed.). **Science, Technology, and Democracy**, Albany: SUNY Press, pp. 87-102; reprinted as Bienestar humano y ciencia federal, cual es su conexion?, Chapter in J. A. Lopez Cerezo and J. M. Sanchez Ron (eds.). **Ciencia, Tecnologia, Sociedad y Cultura**, Madrid: Biblioteca Nueva, 2001, pp. 155-172.

Sarewitz, D. 2000. Science and Environmental Policy: An Excess of Objectivity, Chapter in R. Frodeman (ed.). **Earth Matters: The Earth Sciences, Philosophy, and the Claims of Community**, Upper Saddle River, NJ: Prentice Hall, pp. 79-98.

Sarewitz, D., R. A. Pielke, Jr., R. Byerly 2000. Introduction: Death, Taxes, and Environmental Policy, Chapter 1 in D. Sarewitz, R. A. Pielke, Jr., and R. Byerly., (eds.). **Prediction: Science Decision Making and the Future of Nature**, Island Press: Washington, DC, pp. 1-10.

Sarewitz, D. and R. A. Pielke, Jr. 2000. Prediction in Science and Policy, Chapter in D. Sarewitz, R. Pielke, Jr., and R. Byerly, Jr. (eds.). **Prediction: Science, Decision Making, and the Future of Nature**, Washington, DC: Island Press, pp. 11-22.

Sarewitz, D., R. A. Pielke Jr., and R. Byerly Jr. 2000. Decision Making and the Future of Nature: Understanding and Using Predictions, Chapter 18 in D. Sarewitz, R. Pielke, Jr., and R. Byerly, Jr. (eds.). **Prediction: Science, Decision Making, and the Future of Nature**, Washington, DC: Island Press, pp. 361-388.

Sarewitz, D. and R. A. Pielke, Jr. 1999. Prediction in Science and Policy. *Technology in Society*, v. 21, pp. 121-133.

Sarewitz, D. 1998. Science Goals and Societal Goals: What's the Connection?, Chapter in A. Teich, S. Nelson, and C. McEnaney (eds.). **AAAS Science and Technology Policy Yearbook 1998**, Washington, DC: AAAS.

Brown, Jr., G. and D. Sarewitz 1998. U.S. Failure in International Scientific Cooperation, *Issues in Science and Technology*, v. 15, Fall, p. 31.

Sarewitz, D. 1997. Social Change and Science Policy, *Issues in Science and Technology*, v. 13, Summer, pp. 29-32.

Brown, Jr., G. and D. Sarewitz 1991. Fiscal Alchemy: Transforming Debt into Research, *Issues in Science and Technology*, v. 7, Fall, pp. 70-76.

Opinion Pieces, Reviews, Letters, and Published Reports

Sarewitz, D. 2008. Money Talks (review of **Science for Sale**, by Daniel Greenberg), *BioScience* v. 58(4): 60-61.

Sarewitz, D. 2006. Liberating Science From Politics, *American Scientist*, v. 94(2): 104-105.

Sarewitz, D. 2006. Scientizing Politics (review of **The Republican War on Science**, by Chris Mooney), *Issues in Science and Technology*, Winter, pp. 91-93.

Pielke, Jr., R.A., and D. Sarewitz. 2005. Managing the Next Disaster, *Los Angeles Times*, September 23, p. B 13.

Sarewitz, D. 2005. Will Human Enhancement Make Us Better, *Los Angeles Times*, August 9, p. B13.

Sarewitz, D. 2004. Stepping Out of Line in Stem Cell Research, *Los Angeles Times*, October 25, p. B11.

Sarewitz, D. 2004. Scientific Sanctity Veils Real Stakes, *Arizona Republic*, October 11, p. B7.

Sarewitz, D. 2004, California Stem-Cell Plan (letter to editor), *New York Times*, September 24, p. A27.

Sarewitz, D. 2004. Hiding Behind Science, *Newsday*, May 23, p. A51.

Sarewitz, D. 2003. Review of **Science, Truth, and Democracy**, by P. Kitcher, *Policy Sciences*, v. 36, pp. 197-202.

Sarewitz, D. 2003. Open Science, Closed Society, *Newsday*, April 27, p. A 28.

Pielke, Jr., R.A. and D. Sarewitz, 2003: Research as Action on Climate Change, *Space News*, January 6, p. 15.

Garfinkle, M. and D. Sarewitz 2002. Science Class (letter to the editors), *The New Republic*, February 25, p. 4.

Sarewitz, D. 2001. Politics is Hell, Review of **Science, Money, and Politics**, by D. Greenberg, *Science*, v. 294, October 12, pp. 311-312.

Sarewitz, D. 2001. Catastrophe Will Always Find a New Way to Strike, *Atlanta Journal-Constitution*, September 23, p. E4.

Sarewitz, D. and R. A. Pielke, Jr. 2001. Climate Changes; Society Has to Learn to Adapt, *The Albuquerque Journal*, August 5.

Sarewitz, D. 2000. Death Takes No Holiday, Review of **False Hopes**, by D. Callahan, and **The Missing Moment**, by R. Pollack, *Journal of Health Politics, Policy and Law*, v. 25 (4), pp. 988-991.

Pielke, Jr., R. A. and D. Sarewitz 2000. Anyone for Global Warming? *The Washington Times*, February 2, p. A17.

Pielke, Jr. R. A., D. Sarewitz and R. Byerly, Jr. 1999. Prediction in the Earth Sciences and Environmental Policy, *EOS, Transactions, American Geophysical Union*, v. 80, July 13, ppl 309, 312-313.

Byerly, Jr., R. and D. Sarewitz 1999. Prediction in Policy: A Process, Not a Product, *Natural Hazards Observer*, v. 23, January, pp. 1-3; also in *Geotimes*, v. 44, April, pp. 29-31.

Sarewitz, D. 1997. Balancing Act: Deficit Reduction, Basic Research, and the Entitlement Drain, *Geotimes*, v. 42, April, pp. 16-18.

Sarewitz, D. 1997. Federal Environmental Research and Development: Status Report with Recommendations, New York: Carnegie Commission on Science, Technology, and Government, March, 24 p.

Sarewitz, D. 1996. Science and Sensibility, review of **Betrayal of Science and Reason**, by Paul and Anne Ehrlich, *Science*, v. 274, October 11, p. 198.

Sarewitz, D. 1996. Generous-- and Ignorant (letter to the editor), *The Washington Post*, July 23, p. A16.

Sarewitz, D. 1996. Caveat Emptor, review of **Democracy and Technology**, by Richard E. Sclove, *Issues in Science and Technology*, v. 12, Summer, pp. 87-90.

Sarewitz, D. 1992. Report of the Task Force on the Health of Research , Washington, DC: U.S. Government Printing Office, July, 19 p.

Sarewitz, D. 1992. Passing the Big Bucks in Landfill, *Environment News*, July/August.

Sarewitz, D. 1992. The Low Road to Rio, *Environment News*, June.

Sarewitz, D. 1992. The Colour of Money, *Environment News*, May.

Sarewitz, D. 1992. Geology Meets Public Policy, guest essay in: J.S. Monroe and R. Wicander, **Physical Geology**, St. Paul, MN: West Publishing Co., p. 260.

Sarewitz, D. 1990. Twenty-Seven Billion Dollars--and Not a Penny More, *Geological Society of America News and Information*, v. 12(6), June, pp. 145-147.

Selected Invited Presentations Since 2000

Transhumanism in the Culture of Progress, Keynote Lecture, Templeton Workshop on Transhumanism and Religion, Arizona State University, April 24, 2008.

Can Technology Make You Better? Templeton Lecture on Transhumanism and Religion, Arizona State University, April 21, 2008.

Market Voodoo and Innovation Magic: The Strange Case of Climate Change, Harvard University Seminar on Economics of Science and Engineering, March 31, 2008.

New Tools for Science Policy Making, Harvard University Science, Technology, and Society Circle, November 26, 2007.

All We Lack is Political Will: Technology and Effectiveness in Human Affairs, University of Michigan Science, Technology, and Public Policy Lecture Series, November 12, 2007.

Anticipatory Governance of Emerging Technologies: Competing Values, Irreducible Uncertainties, and Transformation Innovation, University of Oviedo, Spain, October 30, 2007.

Technology and Effectiveness in Contested Political Settings, Center for Research on Energy, Environment, and Transportation (CIEMAT), Madrid, Spain, October 29, 2007.

Political Effectiveness in Science and Technology, Workshop on Science and Social Values, Center for Interdisciplinary Research, Bielefeld University, Bielefeld, Germany, April 16, 2007.

Connecting Research to Social Outcomes, Presentation to the University of Nebraska Board of Regents, Lincoln, NE, March 9, 2007.

Ways of Knowing Novel Materials, Symposium on Environmental Effects of Novel Materials and Processes, Royal Commission on Environmental Pollution, London, England, January 11, 2007.

The CSPO Story and What it Might Mean for CSM (opening presentation), Opportunities for Public Policy Work at the Colorado School of Mines, Golden, CO, Nov. 17, 2006.

Emerging Themes in Science Policy: Policy Perspective (panel presentation), Gordon Research Conference on Science and Technology Policy, Big Sky, Montana, August 18, 2006.

Governable? (panel presenter, moderator, convenor), James Martin Forum on Science and Civilization: Tomorrow's People, Oxford University, Oxford, England, March 17, 2006.

Proposition 71: Vulgar Democracy in Action, AAAS Annual Meeting, Symposium on “Stem Cells and Society: Assessing a Grand Challenge,” St. Louis, MO, February 17, 2006.

Tools For Goldilocks: Rethinking the Relationships Among Research, Funding, and Progress, AAAS Annual Meeting, Symposium on “The Goldilocks Dilemma Facing Science Funding: Can it be Just Right?” St. Louis, MO, February 17, 2006.

Where Responsibility Lies: Promise versus Process in the Production of Knowledge for Leading Technologies, Conference on: Thinking With Einstein: The Responsibility of Science for Peace in the 21st Century, Berlin, Germany, October 15, 2005.

Global Warming Reality Check (panel presentation), Society of Environmental Journalists Annual Meeting, Austin, TX, September 30, 2005.

New Frontiers in Technology Assessment (panel presentations), Nanotechnology: Science, Economy, Society, Marburg University, Marburg German, January 14 and 15, 2005.

Facts, Politics, and Sustainability, Geological Society of America Annual Meeting, Symposium on The Science of Sustainability, Denver, CO, November 9, 2004.

Science as Expertise, Morality, and Politics III: Politics Isn't Policy (panel presentation), Gordon Research Conference on Science and Technology Policy, Big Sky, Montana, August 18, 2004.

How Science Makes Environmental Controversies Worse, Regents Professor Speaker Series, Georgia Institute of Technology, Atlanta, GA, April 15, 2004.

Inauguration of the James Martin Institute for Science and Civilization (keynote panel discussion), Said School of Business, Oxford University, March 16, 2004

Science, Values, and Environmental Politics: Probing the Limits of Objectivity, Rock Ethics Institute Lecture, Pennsylvania State University, State College, PA, October 9, 2003.

The Governance of Science: Past Practice and New Prospects for Monitoring and Assessment, Human Biotechnology Governance Working Group, School for Advanced International Studies, Johns Hopkins University, Washington, DC, October 7, 2003.

Scientizing the Soul: Research as a Substitute for Moral Discourse in Modern Society, British Association Festival of Science, University of Salford, Manchester, UK, September 8, 2003.

Living with the Genie: Uncertainty and Governance in the Age of Technology, Arizona State University, Tempe, AZ, May 20, 2003.

Science, Values, and Climate Change: Probing the Limits of Objectivity, CIRES Distinguished Lecturer Series, University of Colorado, Boulder, CO, April 18, 2003.

Does Science Policy Exist, and If So, Does it Matter? Science, Technology, and Globalization Seminar, Columbia University, New York, NY, April 8, 2003.

Uncertainty, Prediction, and Environmental Decision Making, Bryn Mawr College, Bryn Mawr, PA, March 20, 2003.

The Politics of Nanotechnology, Symposium on Nanotechnology and Society, Columbia University, New York, NY, March 17, 2003.

Proof is Irrelevant, AAAS Annual Meeting, session on The Lomborg Affair and the Politicization of Science, Denver, CO, February 16, 2003.

Outcomes and Science, NIH Senior Leadership Program, College Park, MD, November 4, 2002.

Environmental Science and Environmentalism, Environmental Grantmakers Association Annual Meeting, Asheville, NC, September 10, 2002.

Criteria for Successful Environmental Science Policies, American Geophysical Union Spring Meeting, Washington, DC., May 30, 2002.

Rethinking the U.S. S&T Policy System: Policies Concerning the Environment. AAAS Annual S&T Policy Colloquium, Washington, DC, April 11, 2002.

Do Predictions Improve Decision Making? Keynote Address, International Symposium on Forecasting, Pine Mountain, GA, June 18, 2001.

New Policy Approaches for Connecting Science to Societal Benefit: Examples from Health and Environmental Research, Centers for Disease Control, Atlanta, GA, May 18, 2001.

Prediction in Earth Sciences: Process not Product. Geological Society of America Annual Meeting, Pardee Keynote Symposium, Reno, NV, November 14, 2000.

Science Policy Present: Where is the Frontier? Gordon Conference on Frontiers in Science and Technology Policy, Plymouth, NH, August 22, 2000.

Science, Prediction, and Democracy. Meeting on La Democratización de la Ciencia y la Tecnología, Bilbao, Spain, June 20, 2000.

What is Science? US Geological Survey, Science and Public Policy Seminar, Menlo Park, CA, April 18, 2000.

Prediction, Democracy, and the Danger of Relevance. Symposium on Environmental Philosophy and Public Policy, University of North Texas, April 8, 2000.

Geoscientific Predictions and Their Alternatives. American Association for the Advancement of Science, Annual Meeting, Washington, DC, February 18, 2000.

SELECTED WORKSHOPS AND CONFERENCES ORGANIZED

- 2005 Understanding the Uneven Evolution of Know-How (co-organized with Richard R. Nelson), New York, NY, November 10-11.
- 2005 Reconciling Supply and Demand in Climate Science: Lessons from the RISAs (co-organized with Roger Pielke, Jr.), Honolulu, HI, August 15-17.
- 2004 Reconciling Supply and Demand in Carbon Cycle Research (co-organized with Roger Pielke, Jr.), Fort Collins, CO, September 16-17.
- 2002 Research Symposium with the Next Generation of Leaders in Science and Technology (co-organized with David Guston), Washington, DC, November 22-23
- 2002 Living with the Genie: Governing the Scientific and Technological Transformation of Society in the 21st Century (co-organized with Christina Desser), New York, NY, March 5-8
- 2000 Extreme Events: Developing a Research Agenda for the 21st Century (co-organized with Roger Pielke, Jr.), Boulder, CO, June 7-9
- 2000 New Roles for Science in Environmental Decision Making (co-organized with Paul DeMorgan and Kevin Curtis), Annapolis, MD, July 13-14
- 1998 Prediction in the Earth Sciences: Use and Misuse in Policy Making (co-organized with Roger Pielke, Jr., Radford Byerly, Jr., and Dale Jamieson), Estes Park, CO, September 10-12
- 1997 Prediction in the Earth Sciences: Use and Misuse in Policy Making (co-organized with Roger Pielke, Jr., Radford Byerly, Jr., and Dale Jamieson), Estes Park, CO, July 10-12

Selected Opinion Pieces Written for Congressman G.E. Brown, Jr.

The Mother of Necessity: Technology Policy and Social Equity, *Science and Public Policy*, v. 20 (6), pp. 411-416; also excerpted in: Technology's Dark Side, *Chronicle of Higher Education*, p. B1, June 30, 1993.

Can Scientists 'Make Change Their Friend'? *Scientific American*, v. 268(6), p. 152, June, 1993.

Science's Role in Policy-Making, *Chemical and Engineering News*, pp. 9-11, May 31, 1993.

The Brain in the Machine, *American Psychological Society Observer*, v. 6(1), pp. 2, 18, January 1993.

Rational Science, Irrational Reality: A Congressional Perspective on Basic Research and Society, *Science*, v. 258, pp. 200-201, October 9, 1992.

It's Down to the Last Blank Check, *Los Angeles Times*, p. A12, September 8, 1992 (also carried by Charlotte, NC Observer, Miami Herald and other newspapers).

The Objectivity Crisis, *American Journal of Physics*, pp. 779-781, September 1992.

Reorienting Scientific and Technological Inquiry to Tackle the Global Crises Facing Humanity, *Chronicle of Higher Education*, p. B1, April 22, 1992.

Don't Give Me That Old-Time (Economic) Religion, appeared as an op-ed piece in various medium-circulation newspapers, March 22-27, 1992.

New World Order, Old Worldview, *Los Angeles Times*, p. B6, September 11, 1992.

GEOSCIENCE PUBLICATIONS

Hamburger, M., D. Sarewitz, G. Popandopulo, and I.L. Nersesov 1992. Structure and seismicity of the Peter the First Range, Soviet Central Asia: evidence for intracontinental subduction, *Geological Society of America Bulletin*, 104(4), pp. 397-408.

Sarewitz, D. and S. Lewis 1991. The Marinduque intra-arc basin, Philippines: basin genesis and in situ ophiolite development in a strike-slip setting, *Geological Society of America Bulletin*, 103(5), pp. 597-614.

Sarewitz, D. 1988. High rates of Cenozoic crustal shortening in the Andean foreland, Mendoza Province, Argentina, *Geology*, 16(12), pp. 1138-1142.

Karig, D., D. Sarewitz, and G. Haeck 1986. The role of strike-slip faulting in the evolution of allochthonous terranes in the Philippines, *Geology*, 14(10), pp. 852-855.

Sarewitz, D. and D. Karig 1986. Processes of allochthonous terrane evolution, Mindoro Island, Philippines, *Tectonics*, 5(4), pp. 525-552.

Sarewitz, D. and D. Karig 1986. Geologic evolution of Mindoro island and the Mindoro Suture Zone, Philippines, *Journal of SE Asian Earth Science*, 1(2), pp. 117-141.

Sarewitz, D. and D. Karig 1986. Stratigraphic framework of western Mindoro Island, Philippines, *Philippine Geologist*, 40(1), pp. 3-51.

Mullen, E. and D. Sarewitz 1983. Paleozoic and Triassic terranes of the Blue Mountains, northeast Oregon, *Oregon Geology*, 45(6), pp. 65-68.

Sarewitz, D. 1983. Seven Devils Terrane, Idaho: Is it really a piece of Wrangellia? *Geology*, 11(11), pp. 634-637.