

**KENNETH R. GEISER, Ph.D.**  
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**Professor of Work Environment, University of Massachusetts Lowell**

Presenting courses on Environmental Law and Policy, Work Environment Policy and Practice, Clean Production Principles, and Clean Product Design. Chairing concentration on Cleaner Production and Pollution Prevention and advising Master's Degree and Ph.D. candidates.

**Co-Director, Lowell Center for Sustainable Production, University of Massachusetts Lowell**

Directing research and policy development at a center overseeing the University's Sustainable Hospital Program, the Chemicals Policy/Precautionary Principle Program and the Environmental Health Initiative and collaborating with the Massachusetts Toxics Use Reduction Institute.

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**PRIMARY FIELDS OF INTEREST**

**Environmental Law and Policy.** Research on policy development for hazardous waste minimization, pollution prevention, toxics use reduction and facility level risk reduction planning. Helped to establish and assist the development of the National Pollution Prevention Roundtable. Developed and provided administrative supervision of the Massachusetts Toxics Use Reduction Program. Established and, for thirteen years, directed the Massachusetts Toxics Use Reduction Institute offering technology research, professional training, and technical support to over 500 Massachusetts industrial facilities. Served on the federal Environmental Protection Agency's Common Sense Initiative, Sub-committee on Computers and Electronics, Forum on State and Tribal Action, Chemical Information Management Subcommittee, and various National Advisory Committee on Environment and Technology workgroups.

**Environmentally Appropriate Materials.** Policy writing on national chemicals policies, new materials development, materials substitution, and green chemistries. Established and served as director for the University of Massachusetts, Center for Environmentally Appropriate Materials implementing the Massachusetts Strategic Enviro-technology Partnership, a joint partnership between the University of Massachusetts and the Massachusetts Executive Office of Environmental Affairs. Established the Chelsea Center for Recycling and Economic Development. Completed book (*Materials Matter: Towards a Sustainable Materials Policy*, MIT Press, 2001) on policy directions for the development and use of more sustainable materials. Engaged in cross-national research on government policies for minimizing hazardous wastes and managing toxic and hazardous materials.

**Community and Workplace Health and Safety.** Technical assistance, legislation drafting and policy development on right-to-know, occupational health and safety, and community health monitoring. Drafted and assisted in the enactment of right to know and toxics use reduction legislation in Massachusetts. Serve on working groups for the federal Environmental Protection Agency's National Environmental Justice Advisory Council. Serve as advisor, board member, and trainer for national environmental advocacy organizations such as the National Toxics

Campaign, Massachusetts PIRG, the Healthy Building Network, Environmental Health Fund, Clean Water Action, Maine Environmental Health Strategy Center, Health Care without Harm, Greenpeace, the Global Alliance for Alternatives to Incineration, the International POPs Elimination Network, and Clean Production Action.

**Sustainable Production and Industrial Development.** Research and policy analysis on technology innovation and clean enterprise development. Established and co-direct the University of Massachusetts, Lowell Center for Sustainable Production with projects ranging from the precautionary principle to sustainable hospitals, indicators of sustainable production, clean production training and international dialogues on sustainable consumption. Helped to establish, and oversaw development of the national Product Stewardship Institute. Served as a member, Core Advisory Group, United Nations Environment Program, Cleaner Production Program, Paris, France. Founder of Clean Production Action, a policy research group providing services to U.S.-based public interest organizations, and the Global Chemicals Resource Team, a non-profit technical assistance unit for chemicals policy in developing countries.

#### **CURRENT PROFESSIONAL ENGAGEMENT**

1996- Co-Director, Lowell Center for Sustainable Production, University of Massachusetts Lowell, Lowell, MA  
1990- Professor, Department of Work Environment, University of Massachusetts Lowell, Lowell MA  
1979- Director, Center for the Study of Public Policy, Somerville MA

#### **PAST PROFESSIONAL EXPERIENCE**

2008 Member, Ministry of the Environment, Task Force on Toxics Use Reduction, Ontario, Canada  
2007-2008 Co-facilitator, Governor's Green Chemistry Support Program, State of Michigan  
2007-2008 Member, Governor's Green Chemistry Initiative, Science Advisory Panel, State of California  
2004-2007 Member, U.S. EPA, National Advisory Council for Environmental Policy and Technology, Subcommittee on Environmental Technology, Washington, D.C.  
2001-2007 Member, U.S. EPA, Forum on State and Tribal Toxics Action, Chemical Information Management Workgroup, Washington, D.C.  
2005-2006 Member, U.S. EPA, National Pollution Prevention and Toxics Advisory Committee, Workgroup on Nanotechnology, Washington, D.C.  
2001-2003 Member, U.S. EPA, National Environmental Justice Advisory Committee, Sub-committee on Prevention and Cumulative Risk Analysis, Washington, D.C.  
1997-1999 Member, U.S. EPA, National Advisory Council for Environmental Policy and Technology, Subcommittee on Toxics Release Inventory, Washington, D.C.  
1996-1999 Member, U.S. EPA, Common Sense Initiative, Workgroup on Electronics, Washington, D.C.  
1992-1995 Member, Core Advisory Group, United Nations Environment Program, Cleaner Production Program, Paris, France  
1984-1988 Director, Center for Labor Education and Research, Somerville MA  
1984-1985 Policy Research Coordinator, Center for Environmental Management, Tufts University, Medford MA  
1983-1985 Research Coordinator, High Tech Research Group, Boston MA

#### **PAST UNIVERSITY EXPERIENCE**

2008 Co-Chair, Search Committee for Dean, School of Health and Environment, University of Massachusetts Lowell  
2005-2007 Chair, University Committee on Research and Scholarship, University of Massachusetts Lowell, Lowell, MA  
2003-2007 Special Assistant to the Provost for Research Development, University of Massachusetts Lowell, Lowell, MA  
1998-2007 Co-Chair, Council of Federated Centers and Institutes, University of Massachusetts Lowell, Lowell, MA

1990-2003	Director, Massachusetts Toxics Use Reduction Institute, University of Massachusetts Lowell, Lowell MA
1993-2000	Director, Center for Environmentally Appropriate Materials, University of Massachusetts Lowell, Lowell, MA
1978-1989	Assistant Professor, Department of Urban and Environmental Policy, Tufts University, Medford MA
1983-1988	Chair, Faculty Committee on Campus Development, Tufts University, Medford, MA
1977-1978	Instructor, Department of Urban Studies and Planning, Massachusetts Institute of Technology

## PUBLICATIONS

### Books

- o Kenneth Geiser, *Chemicals without Harm: Solutions for a Sustainable World*, Cambridge: MIT Press, (forthcoming).
- o Kenneth Geiser, *Materials Matter: Towards a Sustainable Materials Policy*, Cambridge: MIT Press, 2001.
- o Kenneth Geiser and Fran Irwin, *Choosing the Materials We Use*, Washington, D.C.: World Wildlife Fund, 1992.

### Book Chapters

- o Ken Geiser, "Making Safer Chemicals" in Martin Abraham, ed., *Sustainability Science and Engineering*, Elsevier, (forthcoming).
- o Ken Geiser and Joel Tickner, "International Environmental Agreements and the Information Technology Industry", in Ted Smith, David Sonnenfeld and David Naguib Pellow, eds., *Challenging the Chip: Labor Rights and Environmental Justice in the Global Economy*, Philadelphia, Temple University Press, 2006.
- o Kenneth Geiser and Beth J. Rosenberg, "The Social Context of Occupational and Environmental Health", in Barry S. Levy, David H. Wegman, Sherry L. Baron and Rosemary K. Sokas, eds., *Occupational and Environmental Health*, Lippincott, Williams and Wilkins, 2006, pp. 21-38.
- o Ken Geiser, "Limits of Risk Management and the New Chemicals Policies", and "Sustainable Directions for the Chemical Industry", in Beth Beloff, Marianne Lines, and Dickson Tenzil, eds., *Transforming Sustainability Strategy into Action*, New York: John Wiley and Sons, 2005
- o Ken Geiser, "Pollution Prevention", Robert Durant, Daniel Fiorino and Rosemary O'Leary, eds., *Environmental Governance Reconsidered: Challenges, Choices and Opportunities*, Cambridge: MIT Press, 2004.
- o Kenneth Geiser, "Cleaner Production", in William Lazonick, ed., *IEMB Handbook of Economics*, London: Thomson, 2002.
- o Ken Geiser and Tim Greiner, "Innovation and Adoption of Cleaner Production Technologies", and David Kriebel, Ken Geiser and Cathy Crumbley, "The Lowell Center for Sustainable Production: Integrating Environment and Health into Regional Economic Development", in Robert Forrant, et.al, eds, *Approaches to Sustainable Development*, University of Massachusetts Press, 2001.
- o Ken Geiser, "Cleaner Production and the Precautionary Principle" and "Preface: Establishing a General Duty of Precaution in the Environmental Protection Policies of the United States", in Carolyn Raffensberger and Joel Tickner, eds., *Protecting Public Health and the Environment: Implementing the Precautionary Principle*, Washington, D.C.: Island Press, 1999.
- o Ken Geiser and Gerry Waneck, "PCB's and Warren County", in Robert Bullard, ed., *Unequal Justice*, Island Press, 1996.
- o Ken Geiser and Marcel Cruel, "Greening of Small and Medium Sized Firms", in Kurt Fisher, ed. *Greening of Industry Resource Guide and Bibliography*, Island Press, 1996.
- o Kenneth Geiser, "Detoxifying Trash", in Frank Krieth, ed. *Handbook & Integrated Solid Waste Management*, New York: McGraw-Hill, 1994.
- o Ken Geiser, "State Policies for High Tech", in Jeff Tryens, ed. *Critical Issues for State and Local Policies*, National Center for Policy Alternatives, Washington, D.C., 1986.
- o Ken Geiser, "Critical Elements of a Waste Reduction Plan", in Art Purcell, ed., *Hazardous and Solid Waste Minimization*, Washington, D.C.: Government Institutes, 1986.

- o Kenneth Geiser, "Converting Economic Conversion ", in Suzanne Gordon and David MacFadden, *Converting to Peace*, New York: Ballinger, 1984.
- o Kenneth Geiser, "Source Reduction", in Jeff Tryens, ed, *The Toxics Crisis: What the States Can Do*, Center on Alternative State and Local Policies, Washington, D.C., 1983.
- o Kenneth Geiser, "Reformulation of the Cities", in Carl Reidel, ed. *New England Prospects*, Hanover: University Press of New England, 1982.

## Articles

- o Ken Geiser, Mark Rossi and Cathy Crumbley, "The Louisville Charter: The NGO Blueprint for New Chemicals Policy", *New Solutions*, 17:3, 2007, pp. 167-171.
- o Ephraim Massawe, Kenneth Geiser, Michael Ellenbecker and Jason Marshall, "Health, Safety, and Ecological Implications of Using Biobased Floor-Stripping Products", *Journal of Environmental Health*, 69:9 May, 2007, pp. 45-52.
- o Ephraim Massawe, Kenneth Geiser, Michael Ellenbecker and Jason Marshall, "Technical Performance Evaluation of Potential Biobased Floor Strippers", *Journal of Cleaner Production*, 2006, pp. 1-10.
- o Sissel Waage, Ken Geiser, Frances Irwin, et. al., "Fitting Together the Building Blocks for Sustainability: A Revised Model for Integrating Ecological, Social and Financial Factors into Business Decision Making", *Journal of Cleaner Production*, 13:12, 2005, pp. 1145-1163.
- o Lin Li and Ken Geiser, "Environmentally Responsible Public Procurement (ERPP) and its Implications for Integrated Product Policy (IPP)", in *Journal of Cleaner Production*, 13:&, 2005, pp. 705-715.
- o Margaret Quinn, Ken Geiser and Lin Li, "Occupational Safety and Health in China, Part I: U.S.-China Symposium on "Integrating Occupational and Environmental Health", *New Solutions*, 15:2, 2005, pp. 181-188.
- o Joel Tickner, Ken Geiser and Melissa Coffin, "The U.S. Experience in Promoting Sustainable Chemistry", *Environmental Science and Pollution Prevention*, 1, 2005, pp. 1-9.
- o Joel Tickner and Ken Geiser, "The Problem of Current Toxic Chemicals Management", *New Solutions*, 14:1, 2004, pp. 43-58.
- o Joel Tickner and Ken Geiser, "The Precautionary Principle Stimulus for Solutions- and Alternatives-based Environmental Policy", *Environmental Impact Assessment Review*, 24, 2004, pp. 801-824.
- o Ken Geiser, "Nanotechnology and Environmental and Public Health Concerns", *New Solutions*, 14: 7, 2004, pp. 63-72.
- o Ken Geiser, "Should the Government Mandate Safer Technologies for the Chemical Industry?--Primary Measures Safer, Cheaper Better," *Environmental Forum*, 21:1, January/February, 2004.
- o Ken Geiser, "Making Materials Matter", *New Solutions*, 12:2, 2002, pp. 157-176.
- o Ken Geiser, "Clearer Production Perspectives: Integrating CP into Sustainability Strategies", *Industry and Environment*, 24:1-2, January-June, 2001.
- o Ken Geiser, "Why Promote Campaigns for Clean Products and Clean Production?", *New Solutions*, 9:3, 1999.
- o Margaret Quinn, David Kriebel, Ken Geiser, and Raphael Moure-Eraso, "Sustainable Production: A Proposed Strategy for the Work Environment", *American Journal of Industrial Hygiene*, 34, 1998.
- o Ken Geiser, "Can the Pollution Prevention Revolution be Restarted?", *Pollution Prevention Review*, Summer, 1998.
- o Kirsten Oldenberg and Ken Geiser, "Pollution Prevention and/or Industrial Ecology", *Journal of Cleaner Production*, November, 5, 1997.
- o Monica Becker and Ken Geiser, "Massachusetts Tries to Cut Toxic Chemical Use", *Environmental Science and Technology*, 31, September, 1997.
- o Kenneth Geiser, "The Unfinished Business of Pollution Prevention", in *Georgia Law Review*, 29, 1995.
- o Ken Geiser, "The Cleaner Production Technology Industry", *Industry and Environment*, 17:4, October-December, 1994.
- o Ken Geiser, "Protecting Reproductive Health and the Environment: Toxics Use Reduction", *Environmental Health Perspectives*, 101, Spring, 1993.
- o Ken Geiser, "The Greening of Industry", *Technology Review*, November, 1991.
- o Rossi, Mark, Michael Ellenbecker and Kenneth Geiser, "Techniques in Toxics Use Reduction", *New Solutions*, 1991.
- o Ken Geiser, "Seeking Clear and Common Ground", *Dollars and Sense*, 1991.
- o Ken Geiser, "Toxics Use Reduction and Pollution Prevention", *New Solutions*, 1, 1990.

- o Norm Beecher, Ken Geiser, and Kurt Fisher, "Strategies in Hazardous Waste Minimization Used Outside the United States", *Hazardous Waste and Hazardous Materials*, 1988.
- o Kenneth Geiser, "Health Hazards in the Microelectronics Industry", *International Journal of Health Services*, 16, Winter, 1986.
- o Ken Geiser, "Policy Assessment of European Hazardous Waste Treatment Facilities", *Hazardous Waste and Hazardous Materials*, 2, Fall, 1985.
- o Kenneth Geiser, "Stop IT Stops I.T.: Lessons in Community Struggles", *Dollars and Sense*, 1985.
- o Ken Geiser, "The Chips Are Falling: Health Hazards in the Microelectronics Industry", *Science for the People*, 1985.
- o Kenneth Geiser, "The Low Side of High Tech: Chemical Hazards in the Electronics Industry", *Business and Society*, 1985.
- o Kenneth Geiser and Rachel Bratt, "Local Land Use Overrides: When Are They Appropriate", *Policy Studies Journal*, 12, March, 1984.
- o Kenneth Geiser and Robert Hollister, ed, "Special Issue on Public Policies", *Hazardous Waste*, 1, Fall, 1984.
- o Kenneth Geiser and Gerry Waneck, "PCBs and Warren County", *Science for the People*, 15, July/August, 1983.

## PROFESSIONAL REPORTS

- o Ken Geiser and Joel Tickner, "Reforming State-Level Chemicals Policy Reform in the United States: Status, Opportunities and Challenges", and Ken Geiser and Alexandra McPherson, "Options for Chemical Innovation and Green Chemistry" in *Options for State Chemicals Policy Reform: A Resource Guide*, Lowell Center for Sustainable Production, University of Massachusetts Lowell, 2008.
- o Joel Tickner and Ken Geiser, *New Directions in European Chemicals Policy: Drivers, Scope and Status*, Lowell Center for Sustainable Production, University of Massachusetts Lowell, 2004
- o Monica Becker and Ken Geiser, *Evaluating the Massachusetts Toxics Use Reduction Program*, Toxics Use Reduction Institute, University of Massachusetts Lowell, 1997.
- o Kenneth Geiser and Mark Rossi, *Further Chemical Restriction Policies: An Evaluation*, volume 1 & 2, prepared for Commonwealth of Massachusetts, 1993.
- o Kenneth Geiser, *Environmental Ballot Initiatives*, Center for Environmental Management, Tufts University, 1990.
- o Kenneth Geiser, Kurt Fisher and Norm Beecher, *Foreign Practices in Hazardous Waste Minimization*, prepared for U.S. Environmental Protection Agency, 1986.
- o Kenneth Geiser, *et.al. Massachusetts High Tech: The Promise and the Reality*, Boston, 1984.

## RECENT PROFESSIONAL PRESENTATIONS

- "Promoting Green Chemistry: Lessons from the States", Green Chemistry Conference, Ontario Ministry for the Environment, Toronto, CN, January, 2009
- "Systems Thinking for the Electronics Industry", Electronics Take Back Campaign Meeting, Oakland, CA, December, 2008.
- "A Comprehensive National Chemicals Policy", Business/NGO Workgroup on Safer Chemicals and Products, New York, NY, October, 2008
- "Substitution and Alternatives Assessment: Framing, Practice and Opportunities", Intergovernmental Forum on Chemical Safety, Dakar, Senegal, September, 2008
- "Alternatives Assessment and Alternatives to Deca-bromodiphenylether", New York State Task Force on Safe Flame Retardants, Troy, NY, September, 2008
- "Materials Sustainability: Considering the Role of NASA", Newport News, VA, September, 2008.
- "Green Jobs—Green Economy", Race, Place and Environmental Justice Conference, New Orleans, LA, May, 2008
- "Strategic Systems for Sustainable Production and Consumption", Funders Network on Sustainable Production and Consumption, Washington, DC, May, 2008
- "Making Materials and Chemicals Policy", Green Decade Meeting, Newton, MA, May, 2008
- "Lists in Toxics Use Reduction", Ontario Ministry for the Environment, Task Force on Toxics Use Reduction,

Toronto, Canada, May, 2008

“Toxics Use Reduction and Alternatives Assessment”, Canadian Law Association Conference, Toronto, Canada, April, 2008.

“Promoting Green Chemistry”, Coming Clean Workshop, Boston, MA, February, 2008.

“Massachusetts Toxics Use Reduction Program”, Ontario Ministry for the Environment Meeting, Toronto, Canada, February, 2008.

“Promoting Green Chemistry and Good Jobs”, Good Jobs/Green Jobs Conference, Pittsburg, PA, February, 2008.

“Alternatives Assessment” International POPs Elimination Network, Toronto, Canada, January, 2008

“What is Green Chemistry”, Green Chemistry Roundtable Meeting, Lansing, Michigan, December, 2007.

“Chemical Policy for the Future”, Ontario, Ministry for the Environment, Task Force on Toxics Use Reduction, Toronto, Canada, November, 2007

“Toxics Use Reduction and Sustainable Production”, Toxics Use Reduction and Inherently Safer Technologies Conference, Amsterdam, Netherlands, November, 2007

“Towards New Policies for Chemicals”, Hazardous Chemicals Conference, Beijing, China, October, 2007.

“Nanotechnology”, Summary Panel, Environmental Benefits of Nanotechnology Conference, U.S. Environmental Protection Agency, Arlington, MA, September, 2007.

“Chemicals Policy Reform and Green Chemistry” California Department of Toxic Substances Control Conference, Sacramento, CA, June, 2007

“International Initiatives and the U. S. HPV Program”, Northeast Waste Management Officials Conference, Tyngsboro, MA, June, 2007.

“Green and Sustainable Chemistry: Locating the Concept”, Green and Sustainable Chemistry Conference, German Ministry of the Environment, Berlin, Germany, May, 2007

“Going Green is Good for Business”, Massachusetts Legislature, Boston, MA, January, 2007

“Green Production, Green Chemistry and Green Products”, Healthy Environment, Healthy Economy Conference, Albany, NY, December, 2006.

“Massachusetts Toxics Use Reduction Program Data”, U.S. EPA, FOSTA, Chemical Information Management Workgroup, Washington, DC. December, 2006.

“Cleaner Production for Louisiana” Deep South Center for Environmental Justice Conference, New Orleans, LA, October, 2006.

“Framing Government Policy Options for Promoting Green Chemistry and Sustainable Materials”, Clean Production Action, NGO/Business Workshop, Boston, MA, October, 2006.

“Chemicals Policies in Massachusetts”, Environmentally Conscious Manufacturing Workshop, National Science Foundation, Washington, DC, June, 2006.

“Nanotechnology and Policy” European Clean Med Conference, Stockholm, Sweden, May, 2006.

“Moving Towards Safer Materials”, NACEPT Meeting on Environmental Technologies, Alexandria, VA, May, 2006.

“Chemical Policy and Product Management”, Household Hazardous Waste and Hazardous Materials Management Conference, Lake Tahoe, CA, April, 2006

“Nanotechnology and Policy”, Household Hazardous Waste and Hazardous Materials Management Conference, Lake Tahoe, CA, April, 2006

“Towards Sustainable Building Materials” U.S. Green Building Conference, Los Angeles, CA, April, 2006.

“Green Chemistry: Locating the Concept”, Green Chemistry Conference, Delhi, India, January, 2006.

“Considerations on the Use of Nutrient Antioxidants”, University of Delhi, New Delhi, India, January, 2006

“Nanotechnology: What is it?”, Nanotechnology and the Environment Conference, San Jose, CA, June, 2005

“Chemicals Policies in Massachusetts”, Toxics Use Reduction Conference, Barcelona, Spain, May, 2005.

“Moving to Safer Alternatives: Chemicals, Materials and Products”, International Workshop on Alternatives Assessment, Lowell, MA, December, 2004.

## **COMMUNITY SERVICE**

Current Board Chair, Maine Environmental Health Strategy Center, Bangor, ME

Current Board Chair, Environmental Health Fund, Boston, MA

Current, Board Member, Healthy Building Network, Washington, DC

Current Board Member, International POPs Elimination Network, Berkeley, CA

Current Advisory Board Chair, Clean Production Action, East Aurora, NY  
Current President, Center for the Study of Public Policy, Somerville, MA  
Current Treasurer, Center for Labor Education and Research, Boston, MA  
Past Board Member, Greenpeace, Washington, DC  
Past Board Member, National Toxics Campaign, Cambridge, MA

## EDUCATION

INSTITUTION	DEGREE	CONFERRED	FIELD OF STUDY
University of California Berkeley	B.Arch.	1965	Architecture
Massachusetts Institute of Technology	M.C.P.	1967	City Planning
Massachusetts Institute of Technology	Ph.D.	1977	Urban Studies and Planning

January, 2009