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Curriculum Vitae

Lynn R. Goldman

PART I

PERSONAL DATA

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EDUCATION AND TRAINING

Degree/Year

Institution and Field

1970-72	University of Houston, Mathematics
BS/1976	University of California, Conservation of Natural Resources
MPH/1981	Johns Hopkins University School of Hygiene and Public Health
MS/1979	University of California, Berkeley, Health and Medical Sciences
MD/1981	University of California, San Francisco, Medicine

Postdoctoral Training

Internship and Residency in Pediatrics, 1985, Children's Hospital Medical Center,
Oakland, California
Residency in Preventive Medicine, 1985, University of California School of Public
Health, Berkeley, California

Medical or Other License

Medical License: California, G48341

Medical Board or Other Certification

American Board of Pediatrics, 1988

PROFESSIONAL EXPERIENCE

Adjunct Professor, December 1999 - Present

Visiting Scholar, January 1999 – December 1999, The Johns Hopkins University School of Hygiene and Public Health, Baltimore, MD

Principal Responsibilities:

Principal Investigator, Children's Health, Pew Commission on Environmental Health

Science Advisor to Director, National Toxicology Program

Visiting Scientist, U.S. Centers for Disease Control and Prevention

Assistant Administrator, Office of Prevention, Pesticides and Toxic Substances, October 1993 – December 1998, U.S. Environmental Protection Agency, Washington, DC

Principal Responsibilities:

Appointed by the President and confirmed by the U.S. Senate in October 1993.

Responsible for leading U.S. pollution prevention, pesticide regulation, toxic substances control, and right-to-know programs. While at the EPA, I led a number of policy initiatives on behalf of the EPA Administrator including pesticide legislative reform (enacted in 1996 and implemented in 1997-98); expansion of the Toxics Release Inventory; a voluntary initiative to generate toxicity screening information for high volume chemicals; a consensus approach to screening and testing chemicals for endocrine disruptor potential; standards to implement of the 1992 Lead Poisoning Prevention Act; children's environmental health policies including participation in developing a Presidential Executive Order; work on regulatory reform proposals; expansion of international efforts in chemical safety including starting two major negotiations (Persistent Organic Pollutants and Prior Informed Consent) completing one of them (PIC); helping create a multinational body responsible for chemical safety (Intergovernmental Forum on Chemical Safety) and achieving harmonization of hazard classification of industrial chemicals; and significant government reinvention effort, including efforts to speed up pesticide and chemical decision making and development of the Presidential Green Chemistry Challenge Award.

Consultant, Environmental Protection Agency Office of Prevention, Pesticides and Toxic Substances, July 1993 – October 1993.

Division Chief, Environmental and Occupational Disease Control, July 1991 – July 1993, California Department of Health Services, Sacramento, CA

Principal Responsibilities: Managed and led a statewide program of environmental epidemiology, childhood lead poisoning prevention, birth defects monitoring and occupational health studies, with about 250 staff and \$25 million. Served as state environmental epidemiologist. Obtained legislation for a California Childhood Lead Poisoning Prevention Program funded by fees paid by industrial sources of lead contamination in California (paint, gasoline and industrial emissions.) Led the establishment of the Children's Environmental Health Network. For the first year, concurrently served in another position as well (see below.)

Branch Chief, Environmental Health Investigations, July 1990-July 1992, California
Department of Health Services, Berkeley, CA

Public Health Medical Administrator I

Managed a state environmental epidemiology group responsible for emergency response studies, outbreak investigations, reproductive epidemiology studies, environmental cancer research, childhood lead poisoning investigations and environmental exposure assessment. Responsible for 60 staff and \$5 million budget. Established the Childhood Lead Poisoning Prevention Program.

Section Chief, Environmental Epidemiology and Toxicology, June 1988-June 1990
Public Health Medical Officer III

Supervised an interdisciplinary team of epidemiologists, toxicologists, physicians and exposure assessors in carrying out environmental epidemiology investigations. Wrote and successfully funded major budget initiative to expand from 10 to 40 staff; put in place a planning and management system to weed out a large backlog of projects; co-authored a cancer cluster investigation protocol; and directed studies of childhood cancer, pesticides, hazardous spills, and superfund sites. Developed training for local health departments in risk communication and environmental epidemiology.

Unit Chief, Environmental Epidemiology, January 1986-June 1988

Medical Epidemiologist, August 1985-January 1986

Public Health Medical Officer II

Conducted epidemiological studies and outbreak investigations. Assisted in training physicians and local health departments in environmental health. Helped draft legislation that established a lead poisoning surveillance system and funding population based childhood lead poisoning studies. Led investigations pesticide, hazardous waste and childhood lead poisoning in California.

ADJUNCT ACADEMIC APPOINTMENTS

Adjunct Professor, Johns Hopkins School of Public Health, 2000.

Visiting Scholar, Johns Hopkins School of Public Health, 1999

Assistant Clinical Professor, Department of Medicine, UC Irvine, 1993. (I resigned from all adjunct appointments in September 1993 to avoid conflicts of interest with my job in the government.)

Associate Clinical Professor, Volunteer Clinical Faculty, Department of Community and International Health, School of Medicine, UC Davis, 1992-93.

Adjunct Lecturer, School of Medicine, UC San Francisco, 1988-93.

PROFESSIONAL ACTIVITIES

Society Memberships and Leadership

American Public Health Association. Member-at-large, 1999. Elected to Governing Council to represent Environmental Health Section, 1999.
American Academy of Pediatrics. Member, Committee on Environmental Health, 1989-1995, Liaison from EPA to Committee on Environmental Health, 1995-1998.
International Society of Environmental Epidemiology
Society for Pediatric Epidemiologic Research
Society for Occupational and Environmental Health
Society for Risk Analysis
Society of Toxicology
Collegium Ramazzini Society
Physician's for Social Responsibility, Executive Board, 1999-.

Participation on Advisory Panels and Committees

Site Visit Committee, Research Center Grant Application for Mt. Sinai School of Medicine, New York, National Institute of Environmental Health Sciences, 1987.
Chair, Peer Review Committee, Woburn Follow-up Studies, Massachusetts State Health Department and CDC, 1989-92.
Peer Review Committee, Occupational and Environmental Medical Education Grants, National Institute of Environmental Health Sciences, 1993.
Institute for Evaluating Health Risks Expert Committee on Reproductive and Developmental Toxicity, Arlington, VA, 1992-93.
Advisory Panel, Maricopa Health Studies, Arizona, CDC, 1987-92.
Committee to Evaluate the Hazardous Materials Management Program of the Bureau of Land Management, National Research Council, 1989-91. Report: "Hazardous Materials on the Public Lands", NRC Press, 1992.
Committee on Wastewater Management for Coastal Urban Areas, Chair Subcommittee on Health, Aesthetics and Ecosystems, NRC, Water Science and Technology Board, 1990-93. Report: "Managing Wastewater in Coastal Urban Areas", 1993
Centers for Disease Control and Prevention Advisory Committee on Childhood Lead Poisoning Prevention, 1990-93. Report: "Preventing Lead Poisoning in Children", CDC, 1993.
National Council of State Legislatures, Forum on State and Tribal Toxics Action, 1991-93.
Committee on Environmental Epidemiology, National Research Council, 1991-93. Report: Environmental Epidemiology (Volume 2): Use of the Gray Literature and Other Data in Environmental Epidemiology, National Academies Press, 1997.
California Medical Association, Council on Scientific Affairs, Technical Advisory Committee on Childhood Lead Poisoning, 1992-93.
Association of State and Territorial Health Officers. Committee on Environmental Health, 1992-93.
Board Member, NRC, Water Science and Technology Board, 1992-93.
UC Berkeley, College of Natural Resources, Advisory Board, 1992-93.
Roundtable on Environmental Health Sciences. Research and Medicine. IOM. 1998-.

Advisory Board, Chemical and Engineering News, 1999-.
Reviewer, National Toxicology Program, Center for the Evaluation of Risks to Human Reproduction, Alexandria, VA, 1999
National Toxicology Program, Board of Scientific Counselors, 1999-.
Dow Corporate Environmental Advisory Council, 1999-.
Hawaii Heptachlor Foundation Scientific Advisory Council, 1999-
Environmental Defense Fund Environmental Science Advisory Committee, 1999-.
National Research Council, Commission on Geosciences, Environment and Resources, 2000-.

Consultations

Consultant, Workshop on Planning Basic Research for Environmental Restoration at Department of Energy Sites, U.S. Department of Energy, 1990.
Eastern Research Group, Consultant for Environmental Databases Project, 1992.
Consultant, California Attorney General's Office, 1999.
Consultant, George Washington University, 1999.

Testimony

Food Quality Protection Act (S. 1166 and S. 1491), Hearing before the Senate Committee on Agriculture, Nutrition and Forestry, U.S. Senate, Washington, DC, June 12, 1996.
H.R. 1627, the Food Quality Protection Act of 1995, Hearings before the Subcommittee on Health and Environment, Committee on Commerce, U.S. House of Representatives, Washington, DC, June 7, 1995.
Food Quality Protection Act of 1995, Hearings before the Subcommittee on Department Operations, Nutrition and Foreign Agriculture, Committee on Agriculture, U.S. House of Representatives, Washington, DC, May 16, 1995.
Proposed Regulatory Reforms to Strengthen Agriculture and Agribusiness, Senate Committee on Agriculture, Nutrition and Forestry, February 14, 1995.
Risk Assessment and Cost-Benefit Analysis, Hearing before the Committee on Science, U.S. House of Representatives, February 3, 1995.
Risk Assessment and Cost/Benefit Analysis for New Regulations (H.R. 9, Job Creation and Wage Enhancement Act of 1995), Joint Hearings before the Subcommittee on Commerce, Trade and Hazardous Materials and the Subcommittee on Health and the Environment, Committee on Commerce, U.S. House of Representatives: Washington, DC, February 2, 1995.
Reinventing the Federal Food Safety System, Hearing before the Subcommittee on Human Resources and Intergovernmental Relations, U.S. House of Representatives Committee on Government Operation, September 28, 1994.
Proposed Legislation Authorizing Funds for Programs of the Toxic Substances Control Act, Hearings before the Subcommittee on Toxic Substances, Research and Development, U.S. Senate Committee on Environment and Public Works, July 13, 1994.
Pesticide Reform (S.985, S. 1478, and S.2050), Bills to Improve Existing Legislative Authority Regulating the Use of Pesticides and to Insure Public Health and Environmental Benefits, Hearing before the Senate Committee on Agriculture, Nutrition, and Forestry, June 29, 1994.

- Administration Pesticide/Food Safety Legislative Proposals, Hearing before the House Agriculture Subcommittee on Department Operations and Nutrition, Committee on Agriculture, U.S. House of Representatives, Washington, DC, June 15, 1994.
- Proposed Legislation Authorizing Funds for Programs of the Toxic Substances Control Act, Hearings before the Subcommittee on Toxic Substances, Research and Development, U.S. Senate Committee on Environment and Public Works, May 1, 1994.
- Strengthening Risk Assessment Within the EPA, Hearing before the Subcommittee on Technology, Environment and Aviation, U.S. House of Representatives Committee on Science, Space, and Technology, March 9, 1994.
- Risk Assessment Issues at the EPA, Joint Hearing before the Subcommittees on Environment, Energy, and Natural Resources and the Subcommittee on Legislation and National Security, U.S. House of Representatives Committee on Government Operations, February 1, 1994.
- Circle of Poison, Hearing before the Subcommittee on Economic Policy, Trade and Environment (with Carol M. Browner), Committee on Foreign Affairs, U.S. House of Representatives, January 24, 1994.
- EPA Pesticide Worker Protection Standard, Hearing before the Senate Agriculture Committee, November 1993.
- Risk Assessment, Hearing before the Subcommittee on Transportation and Hazardous Materials, Committee on Energy and Commerce. U.S. House of Representatives, November 17, 1993.
- Risk Assessment Research, Hearing before the Subcommittee on Technology, Environment and Aviation, Committee on Science, Space and Technology. U.S. House of Representatives, November 16, 1993.
- EPA Pesticide Worker Protection Standards for Agricultural Pesticides, Hearing before the Subcommittee on Department Operations and Nutrition, House Committee on Agriculture, U.S. House of Representatives, November 10, 1993.
- EPA's Pesticide Program and Food Safety Reform, Hearing before the Subcommittee on Environment, Energy and Natural Resources, U.S. House of Representatives Committee on Government Operations, October 29, 1993.
- Hormones in the Environment, Hearing before the House Committee on Commerce, Washington, DC, October 15, 1993.
- Confirmation Hearing for Lynn R. Goldman, Hearing before the Committee on Environment and Public Works, U.S. Senate, Washington, DC, September 29, 1993.
- The Cantara (Dunsmuir) Pesticide Spill in the Sacramento River, Testimony on Behalf of the State of California, Hearing before the U.S. House Committee on Commerce, Washington, DC, October 3, 1991.
- Regulation of Reproductive Hazards, Testimony on Behalf of the State of California, Hearing before the Senate Government Operations Committee, Washington, DC, October 2, 1991.
- Childhood Lead Poisoning Prevention (Legislation Introduced by Reid), Testimony on Behalf of the American Academy of Pediatrics, Health Subcommittee, U.S. Senate Committee on Labor and Health, Washington, DC, June 27, 1990.

Childhood Lead Poisoning, Children and Environmental Health (Field Hearing), House Select Committee on Children, Youth and Families, U.S. House of Representatives, Oakland, CA, July 31, 1989.

EDITORIAL ACTIVITIES

Journal Editorial Board Membership

Editorial Board, International Journal of Occupational and Environmental Health, 1996-.
Editorial Board, Environmental Health Perspectives, 1997-.

Peer Reviews for Journal (Last Five Years)

New England Journal of Medicine
Journal of the American Medical Association
Journal of the American Public Health Association
Pediatrics
Environmental Health Perspectives
Environmental Science and Technology
Environmental Research

Reports and Proposals

Peer Reviewer, Reviewer Oxford University Press Book Proposal, February 1999.
Peer Reviewer, Public Health Policy Advisory Board, "Report on Children's Health Priorities," 1999.
Peer Reviewer, "Genetically Modified Pest-Protected Plants: Science and Regulation," National Research Council, 2000.

AWARDS AND HONORS

University of Houston, Honors Program, Honors Scholar, 1970-72
University of California, Berkeley, Graduated with Honors, 1976
Best First Year Russian Student, 1971
Women in Science and Engineering (WISE) Honoree, 1996
National Institute for Environmental Health Sciences, National Science Research Award, 1984-85
California Department of Health Services, Supervisory Performance Award, 1990
Goldman L.R. The environment and the health of women, Annual Distinguished Lecture Series on Women and the Environment. Tulane/Xavier Center for Bioenvironmental Research and the Greater New Orleans Foundation, November 1998
Johns Hopkins University Alumni Association, Woodrow Wilson Award for Distinguished Government Service, 1999

PUBLICATIONS

Chapters

- Paigen B. and Goldman L.R. Lessons from Love Canal: the role of the public and the use of birth weight, growth, and indigenous wildlife to evaluate health risk. In Evaluating Health at Waste Disposal Sites. Radford E. and Andelman J., eds. Ann Arbor Science, Ann Arbor, Michigan, 1983.
- Goldman L.R. and Harris J. Lead poisoning. In Clinical Preventive Medicine: Health Promotion and Disease Prevention. Little Brown and Company, 1988.
- Paigen B., and Goldman, L.R. Effects of environmental toxins on human growth. In Human Growth, Vol. 2, CRC Press, 1990.
- Kharrazi M., Smith D.F., Blake E., Vance W.A. and Goldman L.R. Real time surveillance of symptoms and odor complaints during the trial excavation of a toxic waste site. In Hazardous Waste and Public Health: International Congress on the Health Effects of Hazardous Wastes. Andrews J.S., et al., eds. Princeton Scientific Publishing: Princeton, New Jersey, pp. 806-814, 1994.
- Goldman L. Agriculture. Reducing pesticide risks: new EPA initiatives. In: Environment Strategy America 1995/96: Practical Solutions to Environmental Problems, WK Reilly, ed., Campden Publishing, London, pp. 52-54. 1995.
- Goldman L. Toxic exposure and health: perspective of the U.S. Environmental Protection Agency. In: One World: The Health and Survival of the Human Species in the 21st Century, Health Press, Santa Fe, New Mexico, pp. 205-214, 1996.
- Kharrazi M., Von Behren J., Smith M., Lomas T., Armstrong M., Broadwin R., Blake E., McLaughlin B., Worstell G., Goldman L. A community-based study of adverse pregnancy outcomes near a large hazardous waste landfill in California. In: Hazardous Waste: Impacts on Human and Ecological Health. Proceedings of the 2nd International Congress on Hazardous Waste, Princeton Scientific Publishing Co., Princeton, NJ, pp. 377-389, 1997.
- Goldman L.R. Preface to Hormonal Chaos, by Sheldon Krimsky. Johns Hopkins University Press, Baltimore, MD, 1999.
- Goldman L.R. Environmental health. In: Occupational Health: Recognizing and Preventing Work-Related Disease and Injury, Barry Levy and David Wegman, Eds. Lippincott, Williams and Wilkins, 1999.
- Goldman L.R. Environmental health practice. In: Oxford Textbook of Public Health, Roger Detels, Ed. Oxford University Press, Publication pending, 2000.

Peer-Reviewed Articles

- Goldman L.R., Paigen B., Magnant M.M. and Highland J.H. Low birth weight, prematurity and birth defects in children living near the hazardous waste site, Love Canal. Hazardous Wastes and Hazardous Materials, 2:209-223, 1985.
- Paigen B., Goldman L.R., Highland J.H., Magnant M.M. and Steegmann A.T. Jr. Prevalence of health problems in children living near Love Canal. Hazardous Wastes and Hazardous Materials, 2:23-43, 1985.

- Goldman L.R., Mengle D., Epstein D.M., Fredson D., Kelly K. and Jackson R.J. Acute symptoms in persons residing near a field treated with the soil fumigants methyl bromide and chloropicrin. *Western Journal of Medicine*, 147:95-98, 1987.
- Paigen B., Goldman L.R., Magnant M.M., Highland J.H. and Steegmann A.T. Jr. Growth of children living near the hazardous waste site, Love Canal. *Human Biology*, 59:489-508, 1987.
- Morbidity and Mortality Weekly Report. Aldicarb Food Poisoning from Contaminated Melons - California, April 25, 1988/Vol. 35/No. 16, pp. 254-263.
- Neutra R.R., Goldman L.R., Smith D.F., Satin K.P. and Deane M. Study endpoints, goals and prioritization for a program in hazardous chemical epidemiology. *Archives of Environmental Health*, 43:94-99, 1988.
- Goldman L.R., Hayward D.G., Flattery J., Harnly M.E., Patterson D., Needham L., Siegel D., Chang R., Stephens R.D. and Kizer K.W. Serum, adipose, and autopsy tissue PCDD and PCDF levels in people eating contaminated beef and chicken eggs. *Chemosphere*, 19:841-848, 1989.
- Chang R., Hayward D., Goldman L.R., Harnly M., Flattery J. and Stephens R.D. Foraging farm animals as biomonitors for dioxin contamination. *Chemosphere*, 19:481-486, 1989.
- Goldman L.R., Beller M. and Jackson R.J. Aldicarb food poisonings in California -- 1985-1988: toxicity estimates for humans. *Archives of Environmental Health*, 45:3, 1990. [A published erratum appears in 45(6) following p. 380.]
- Morbidity and Mortality Weekly Report. Earthquake-Associated Deaths - California, November 17, 1989/Vol. 38/No. 45, pp. 767-770.
- Goldman L.R., Smith D.F., Neutra R.R., Saunders D., Pond E.M., Stratton J., Waller K., Jackson R.J. and Kizer K.W. Pesticide food poisoning from contaminated watermelons in California, 1985. *Archives of Environmental Health*, 45:4, 1990.
- Morbidity and Mortality Weekly Report. Clinical Spectrum of Eosinophilia-Myalgia Syndrome - California, February 16, 1990/Vol. 39/No. 6, pp. 89-91.
- Smith D.F., MacGregor J.T., Hiatt R.A., Hooper N.K., Wehr C.M., Peters B., Goldman L.R., Yuan L.A., Smith P.A. and Becker C.E. Micronucleated erythrocytes as an index of cytogenetic damage in humans; demographic and dietary factors associated with micronucleated erythrocytes in splenectomized subjects. *Cancer Research*, 50:5049-5054, 1990.
- Goldman L.R., Schlag R.D., Haan M. and Kizer K.W. Preventing lead poisoning in children. *Western Journal of Medicine*, 3:152, 1990.
- Stephens R.D., Harnly M., Hayward D.G., Chang R.R., Flattery J., Petreas M.X. and Goldman L.R. Bioaccumulation of dioxins in food animals. II: Controlled exposure studies. *Chemosphere*, 20:1091-1096, 1990.
- Lipscomb J.A., Goldman L.R., Satin K.P., Smith D.F., Vance W.A. and Neutra R.R.. A follow-up study of the community near the McColl hazardous waste disposal site. *Environmental Health Perspectives*, 94:15-24, 1991.
- Petreas M.X., Goldman L.R., Hayward D.G., Chang R.R., Flattery J.J., Weismuller T. and Stephens R.D. Biotransfer and bioaccumulation of PCDD/PCDFs from soil: controlled exposure studies of chickens. *Chemosphere*, 23:1731-1741, 1991.

- Hatch D.L., Garona J.E., Goldman L.R. and Waller K.O. Persistent eosinophilia in an infant with probable intrauterine exposure to L-tryptophan-containing supplements. *Pediatrics*, 88:810-813, 1991.
- Hayward D.G., Petreas M.X., Goldman L.R. and Stephens R.D. Assessing the risks from 2,3,7,8-TCDD and -TCDF in milk packaged in paper. *Chemosphere*, 23:1551-1559, 1991.
- Morbidity and Mortality Weekly Report. Dermatitis Among Workers Cleaning the Sacramento River After a Chemical Spill - California, 1991, December 1991.
- Lipscomb J.A., Goldman L.R., Satin K.P., Smith D.F., Vance W.A. and Neutra R.R. A study of current residents' knowledge of a former environmental health survey of their community. *Archives of Environmental Health*. 47:270-273, 1992.
- Goldman L.R., Gomez M., Greenfield S., Hall L., Hulka B.K., Lybarger J., McKenzie D., Murphy R., Wellington, D. and Woodruff, T. The use of exposure databases for status and trends analysis. *Archives of Environmental Health*. 47:430-438, 1992.
- Johnson S.R., Winkleby M.A., Boyce W.T., McLaughlin R., Broadwin R. and Goldman L.R. The association between hemoglobin and behavior problems in a sample of low-income Hispanic preschool children. *Developmental and Behavioral Pediatrics*. 13:209-214, 1992.
- Morbidity and Mortality Weekly Report. Blood Lead Levels among Children in High-Risk Areas - California, 1987-1990, May 1992.
- Hatch D.L. and Goldman L.R. Reduced severity of eosinophilia-myalgia syndrome associated with the consumption of vitamin-containing supplements prior to illness. *Archives of Internal Medicine*, 153:2368-2373, 1993.
- Bradman M.A., Harnly M.E., Goldman L.R., Marty M.A., Dawson S.V., and Dibartolomeis M.J. Malathion and malaoxon environmental levels used for exposure assessment and risk characterization of aerial applications to a residential area of southern California, 1989-1990. *Journal of Exposure Analysis and Environmental Epidemiology*, 4:49-63, 1994.
- Koo D. and Goldman L.R. Irritant dermatitis among workers cleaning up a pesticide spill: California 1991. *American Journal of Industrial Medicine*, 27:545-553, 1995.
- Sutton P.M., Athanasoulis M., Flessel P., Guirguis G., Haan M., Schlag R. and Goldman L.R. Lead levels in the household environment of children in three high-risk communities in California, 1994. *Environmental Research*, 68:45-67, 1995.
- Harnly M., Stephens R., McLaughlin C., Marcotte J., Petreas M. and Goldman L. Polychlorinated dibenzo-p-dioxin and dibenzofuran contamination at metal recovery facilities, open burn sites and a railroad car incineration facility. *Environmental Science and Technology*, 29:677-684, 1995.
- Goldman L.R., Anton-Culver H., Kharrazi M. and Blake E. Banking of human tissue for biomonitoring and exposure assessment: utility for environmental epidemiology and surveillance. *Environmental Health Perspectives*, 130;suppl.3:31-34, 1995.
- Goldman L.R. Children--unique and vulnerable: Environmental risks facing children and recommendations for response. *Environmental Health Perspectives* 103:suppl 6:13-18,1995.

- Goldman L.R. Environmental risk assessment and national policy: keeping the process fair, effective and affordable. *University of Cincinnati Law Review*, 63;4:1533-1551, 1996.
- Kreutzer R.A., Hewitt D.J., Sun R., Draper W., Mangiamale D., Goldman L., Jackson R., Smith D., Shusterman D. A community-based epidemiologic study of acute health effects from a metam-sodium spill on California's Sacramento River. *Toxicology and Industrial Health*, 12(2):267-75, 1996.
- Smith M.W., Kreutzer R.A., Goldman L.R., Casey-Paal A., and Kizer K.W. How economic demand influences access to medical care for rural Latino children. *Medical Care*, 1996.
- Reynolds P., Smith D.F., Satariano E., Nelson D.O., Goldman L.R., and Neutra R.R. The four county study of childhood cancer: clusters in context. *Statistics in Medicine*, 15:683-697, 1996.
- Mendell M.J., Fisk W.J., Deddens J.A., Seavey W.G., Smith A.H., Smith D.F., Hodgson A.T., Daisy J.M., and Goldman L.R. Elevated symptom prevalence associated with ventilation type in office buildings: findings from the California Healthy Building Study, Phase 1. *Epidemiology*, 7(6):583-589, 1996.
- Harnly M., Seidel S., Rojas P., Fornes R., Flessel P., Smith D., Kreutzer R., and Goldman L. Biological monitoring for mercury within a community with soil and fish contamination. *Environmental Health Perspectives*, 105(4):424-428, 1997.
- Kharrazi M., Von Behren J., and Goldman L. A community-based study of adverse pregnancy outcomes near a large hazardous waste landfill in California. *Toxicology and Industrial Health*, 13(2/3), 1997.
- Goldman L.R. Linking research and policy to ensure children's environmental health. *Environmental Health Perspectives*, 106(Suppl 3):857-862, 1998.
- Goldman L.R. Chemicals and children's environment: What we don't know about the risks. *Environmental Health Perspectives*, 106(Suppl 3):875-880, 1998.
- Goldman L.R., Harnly M., Flattery J., Patterson D.G. Jr., and Needham L.L. Serum PCDDs and PCDFs among people eating contaminated home-produced eggs and beef. *Environmental Health Perspectives*, 108(1):13-19, 2000.
- Harnly M., Petreas M., Flattery J., and Goldman L.R. Polychlorinated dibenzo-*p*-dioxin and polychlorinated dibenzofuran contamination in soil and home-produced chicken eggs near pentachlorophenol sources. *Environmental Science and Technology*, publication pending.

Commentary

- Jackson R.J. and Goldman L.R. Pesticide residues in food [letter]. *Pediatrics*, 76:473-474, 1985.
- Limitations of epidemiology by concerned citizens. In Partners for Progress. Second National Environmental Health Conference Proceedings, Public Health Foundation, Publication No. 100, December 1986.
- Goldman L.R., Hayward D.B., Siegel D. and Stephens R.D. Dioxin exposure and mortality from cancer [letter]. *NEJM*, 324:1811, 1991.
- Cummins S.K. and Goldman L.R. Even advantaged children show cognitive deficits from low-level lead toxicity [editorial]. *Pediatrics*, 90:995-997, 1992.
- Goldman L.R. Lead screening [letter]. *Pediatrics*, 91:854-855, 1993.

- Goldman L.R. and Carra J. Childhood lead poisoning in 1994 [editorial]. JAMA, 272:315-316, 1994.
- Goldman L.R. Fungicide regulation and food safety [letter]. Science, 267:1080-1081, 1995.
- Goldman L.R., Schultz W. B. and Elworth L. Food Quality Protection Act of 1995. Journal of the Association of Food and Drug Officials, 59(4), 1995.
- Goldman L.R., Garvey K.J., Cortinas de Nava C. and Looye K. New directions in pesticide risk reduction: report from North America. Eighth International Congress on Pesticide Chemistry: Options 2000, Proceedings of a conference organized by the American Chemical Society and sponsored by the International Union of Pure and Applied Chemistry, July 4-9, 1994. Washington, DC: American Chemical Society, pp. 372-381, 1995.
- Goldman L.R. Case studies of environmental risks to children. Future of Children, 5(2):27-33, 1995.
- Goldman L.R. EPA and biotechnology regulation [letter]. Science, 268:786, 1995.
- Goldman L. Women's health and the environment: international perspectives. AWIS Magazine, 25:4, 1996.
- Goldman L. EPA's policy on pesticides gets tougher. Forum for Applied Research and Public Policy, 11(1), 1996.
- Goldman L.R. EPA seeks public health views on new pesticide law. Public Health Reports, 111(6):512-4, 1996.
- Goldman L.R. Reproductive and developmental toxicity [commentary]. International Journal of Occupational and Environmental Health, 2:1, Jan-Mar, 1996.
- Goldman L.R. Science-Based Risk Management in Regulatory Agencies: Assessing Risk Commission Recommendations [presentation]. American Association for the Advancement of Science, Annual Meeting, 1997
- Goldman L.R. New approaches for assessing the etiology and risks of developmental abnormalities from chemical exposure. Reproductive Toxicology 11(2-3):443-451, 1997.
- Goldman L.R. and Gehle K. Misuse of pesticides can complicate health of children with asthma. American Academy of Pediatrics News, September 1997.
- Goldman L.R. and Farland W.H. Methylmercury risks [letter]. Science, 279:640-641, 1998.
- Landrigan P.J. and Goldman L.R. Report of a panel on the relationship between public exposure to pesticides and cancer [letter]. Cancer, 83:5, 1998.
- Goldman L.R. Lead regulation [letter]. Science, 282:1825-1826, 1998.
- Goldman L.R. Pesticides and agriculture: the U.S. regulatory perspective. In: The International Conference on Regulatory Issues in Crop Production and their Implications for the Food Supply, J.M. Shannon, Ed. Tufts University, The Foundation for Nutritional Advancement, Boston MA, 1998.
- Goldman L.R. Informed diagnosis of poisoning critical as indoor misuse of pesticides spreads. American Academy of Pediatrics News, March 1998.
- Goldman L.R. Using science to safeguard the health of children, Risk Policy Report "Guest Perspective", November 1998.
- Goldman L.R. Commentary in "Millennial Musings", Chemical and Engineering News, December 1999.

Government Reports

- Incident Report on the Koppers Oroville Fire. California Department of Health Services, Sacramento, California. November 9, 1987.
- A Protocol for the Identification and Management of Childhood Lead Poisoning. California Department of Health Services, Sacramento, California. May 4, 1989.
- Interim Report to the California State Legislature. Childhood Lead Poisoning in California: Causes and Prevention. California Department of Health Services, Sacramento, California. June 1989.
- Investigating Non-Infectious Disease Clusters. California Department of Health Services, Berkeley, California. January 16, 1990.
- Interim Report on the Four County Study of Childhood Cancer Incidence. California Department of Health Services, Sacramento, California. May 10, 1990.
- McFarland Child Health Screening Project, 1989. California Department of Health Services, Sacramento, California. January 1991.
- Health Risk Assessment of Aerial Application of Malathion-Bait, Chapter 7: Exposure Estimation. California Department of Health Services, Sacramento, California. February 1991.
- Dioxins in California: A Widespread Problem. California Department of Health Services, Sacramento, California. May 1991.
- Four County Study of Childhood Cancer Incidence: Interim Report #2. California Department of Health Services, Sacramento, California. September 1991.
- Kids and the Environment: Toxic Hazards. A Course on Pediatric Environmental Health. California Public Health Foundation, Berkeley, California. September 1991.
- Summary of Environmental Data: McFarland Childhood Cancer Cluster Investigation. California Department of Health Services, Sacramento, California. October 1991.
- Acute Health Effects of the Cantara Metam Sodium Spill. An Epidemiologic Assessment. California Department of Health Services, Sacramento, California. June 1992.
- Assessment of Training Needs in Environmental and Occupational Health: A survey of WHO Global Environmental Epidemiology (GEENET) Members. World Health Organization, Environmental Occupational Epidemiology Series, Geneva, Switzerland. 1992.
- Environmental Health Threats to Children. U.S. Environmental Protection Administration, Office of the Administrator, Washington, DC. September 1996.
- Biological Monitoring and Health Interview Study among Residents of an Area with Pentachlorophenol Contaminated Groundwater. Final Report. California Department of Health Services, Division of Environmental and Occupational Disease Control, Environmental Health Investigations Branch, Sacramento, CA. March 1997.
- Investing in Our Future: a National Research Initiative for America's Children in the 21st Century. National Science and Technology Council. Committee on Fundamental Science, Committee on Health, Safety and Food. White House Office of Science and Technology Policy, Washington, DC, April 1997.
- Endocrine Disruptor Screening and Testing Advisory Committee (EDSTAC) Final Report, U.S. Environmental Protection Agency, Washington, DC, August 1998.

Abstracts (last year only)

- Goldman, L.R. Building a Research Agenda in Children's Environmental Health in the Next Decade, Environmental Influences On Children: Brain, Development and Behavior, Mt. Sinai School of Medicine, New York Academy of Medicine, May 24-25, 1999.
- Goldman, L.R. Children's Exposure to Dioxins and Related Compounds: A Call for Urgency for International Action on the Global POPs Convention, Dioxin99, Venice, Italy, September 14, 1999.
- Goldman, L.R. Exposure Assessment: Regulatory and Legislative Issues Plenary Session I: Exposure Assessment in Perspective, Conference: The Role of Exposure Assessment in the Prevention of Environmental Disease, Rockville, MD, September 22-24, 1999.
- Goldman, L.R. Developmental Neurotoxicity: Framing the Problem, Seventeenth International Neurotoxicity Conference, Children's Health and the Environment: Mechanisms and Consequences of Developmental Neurotoxicity, Little Rock, AR, October 18, 1999.
- Goldman, L.R. The Implications of the Precautionary Principle for Environmental Policy, Annual Meeting of the American Association for the Advancement of Science, February 17-22, 2000.

CURRICULUM VITAE**Lynn R. Goldman****PART II****TEACHING****Advisees**

Carolyn Ward, MPH
DrPH Candidate, Department of Epidemiology
Dissertation committee, 1999-

Supervision of Doctoral Students in Research

Jane Lipscomb, R.N., Ph.D., Epidemiology, University of California Berkeley, School of Public Health. Supervised and collaborated on doctoral study of illness associated with proximity to hazardous waste sites, 1986-89. Dissertation: Epidemiology of Symptoms Reported by Persons Living Near Hazardous Waste Sites.

Publications:

Lipscomb J.A., Goldman, L.R., et al., 1991. (See publication list.)

Shusterman D., Lipscomb J., Neutra R., Satin K. Symptom prevalence and odor-worry interaction near hazardous waste sites. *Environ Health Perspect* 1991; 94:25-30.

Neutra R., Lipscomb J., Satin K., Shusterman D. Hypotheses to explain the higher symptom rates observed around hazardous waste sites. *Environ Health Perspect* 1991; 94:31-8.

Lipscomb J.A., Goldman L.R., et al., 1992. (See publication list.)

Mark Mendell, Ph.D., Epidemiology, University of California Berkeley School of Public Health. Helped to set up and collaborated on doctoral study of health symptoms from indoor air pollution, 1988-91. Dissertation: Risk Factors For Work-Related Symptoms In Northern California Office Workers (Sick Building Syndrome)

Publications:

Mendell M.J., Smith A.H. Consistent pattern of elevated symptoms in air-conditioned office buildings: a reanalysis of epidemiologic studies [see comments]. *Am J Public Health* 1990; 80:1193-9.

Mendell M.J., Fisk W.J., et al., 1996. (See publication list.)

Asa Bradman, M.S., Energy and Resources, Ph.D., Environmental Health Sciences, University of California Berkeley. Supervised study conducted for research for master's thesis. Co-advised and collaborated on doctoral study of interaction between iron deficiency and childhood lead exposure, 1988-98. Master's Thesis: A Pilot Study Investigating the Association Between Lead in Children's Blood and Lead in Drinking Water and a Review of Lead Policy Concerning Drinking Water. Dissertation: "Young Children's Exposures to Toxic Substances: Three Case Studies."

Publications:

Marty M.A., Dawson S.V., Bradman M.A., Harnly M.E., Dibartolomeis M.J.

Assessment of exposure to malathion and malaoxon due to aerial application over urban areas of southern California. *J Expo Anal Environ Epidemiol* 1994; 4:65-81.

Bradman M.A., Harnly M.E., et al., 1994. (See publication list.)

Advisees (Postdoctoral Training)

Mike Beller, M.D., M.P.H., UC Berkeley Preventive Medicine Resident, 1988. For publication see Goldman et al, 1990.

Publications:

Goldman L.R., Beller M., Jackson R.J., 1990. (See publication list.)

Kirsten Waller, M.D., M.P.H. CDC EIS Officer, 1988-90.

Publications:

Waller K., Osorio A.M., Jones J. Lead exposure in a tank demolition crew: implications for the new OSHA construction lead standard. *Am J Ind Med* 1994; 26:693-702.

Lipsett M., Waller K., Shusterman D., Thollaug S., Brunner W. The respiratory health impact of a large urban fire. *Am J Public Health* 1994; 84:434-8.

Waller K., Prendergast T.J., Slagle A., Jackson R.J. Seizures after eating a snack food contaminated with the pesticide endrin. The tale of the toxic taquitos. *West J Med* 1992; 157:648-51.

Waller K., Osorio A.M., Maizlish N., Royce S. Lead exposure in the construction industry: results from the California Occupational Lead Registry, 1987 through 1989. *Am J Public Health* 1992; 82:1669-71.

Doug Hatch, MD, M.P.H., CDC Preventive Medicine Resident, 1989.

Publications:

Hatch D.L., Garona J.E., Goldman L.R., Waller K.O., 1991. (See publication list.)

Hatch D.L., Goldman L.R. 1993. (See publication list.)

Eberhart-Phillips J.E., Saunders T.M., Robinson A.L., Hatch D.L., Parrish R.G. Profile of mortality from the 1989 Loma Prieta earthquake using coroner and medical examiner reports. *Disasters* 1994; 18:160-70.

Susan Johnson, MD, UCSF Developmental Pediatrics Fellow, 1989.

Publications:

Johnson S.R., Winkleby M.A., Boyce W.T., McLaughlin R., Broadwin R., Goldman L., 1992. (See publication list.)

Denise Koo, MD, CDC EIS Officer, 1991

Publications:

Koo D., Goldman L., Baron R., 1995. (See publication list.)

Tracy Woodruff, Ph.D., UCSF Health Policy Fellow, 1992.

Publications:

Goldman L.R., et al., 1992. (See publication list.)

Classroom Instruction

- Lecture: Environmental Epidemiology, UC Santa Cruz Environmental Studies Course, May 29, 1986.
- Lecture: Environmental Medicine, Seminar: UC Berkeley Preventive Medicine Residency, November 4, 1987.
- Lecture: Environmental Health, UC Berkeley School of Public Health Seminar for Medical Students, April 7, 1989.
- Lecture: Lead Poisoning: What are the Risks at Low Levels of Exposure? Research Issues in Maternal and Child Health, UC Berkeley School of Public Health, April 12, 1988,
- Section Leader: UC San Francisco School of Medicine, Epidemiology for Medical Students, April – June 1988.
- Lecture: Childhood Lead Poisoning, Preventive Medicine Course, UC Davis School of Medicine, June 7, 1989.
- Lecture: Public Health Screening, Introduction to Preventive Medicine, UC Irvine School of Medicine, September 7, 1989.
- Lecture: Cancer Clusters and the Environment, UC Davis School of Medicine, November 30, 1989.
- Section Leader: UC San Francisco School of Medicine, Epidemiology for Medical Students, April – June 1990.
- Lecture: Lead Poisoning: What are the Risks at Low Levels of Exposure? Research Issues in Maternal and Child Health, UC Berkeley School of Public Health, September 26, 1990.
- Instructor: Introduction to Preventive Medicine, UC Irvine School of Medicine, September 27, October 17, and October 18, 1990.
- Lecture: Introduction to Environmental Health, Orientation for Preventive Medicine Residents, UC Berkeley School of Public Health, October 11, 1990.
- Lecture: Pesticide Public Health Risks, Undergraduate Environmental Science Course, UC Berkeley, October 31, 1990.
- Lecture: Lead and Other Heavy Metals, UC Berkeley Preventive Medicine Residency, March 20, 1991.
- Lecture: Introduction to Environmental Health, UC Irvine School of Medicine, September 9, 1991.
- Lecture: Childhood Lead Poisoning, UC Berkeley Preventive Medicine Residency, November 13, 1991.
- Section Leader: UC San Francisco School of Medicine, Epidemiology for Medical Students, April – June 1992.
- Speaker: Childhood Lead Poisoning, Institute for Health Policy Studies Seminar, UC San Francisco, April 13, 1992.
- Speaker: Child Health Policy Forum, Institute for Health Policy Studies, UC San Francisco, April 16, 1992.
- Lecture: Cancer Cluster Investigations, Introduction to Cancer Epidemiology Course, UC Berkeley School of Public Health, April 20, 1992.
- Lecture: Lead Poisoning, UCSF School of Medicine, May 20, 1992.

- Lecture: California Central Valley Pesticide Issues, Conservation and Resource Studies, UC Berkeley, November 11, 1992.
- Lecture: Environmental Hazards Affecting Patients' Health in the 21st Century, University of Maryland School of Medicine, Baltimore, MD, April 24, 1998.
- Lecture: Environmental Health Practice, Introduction to Public Health Practice, Johns Hopkins School of Public Health, January 28, 1999.
- Lecture: Risk Decision making at EPA, Risk Policy Course, Johns Hopkins School of Public Health, Baltimore, MD, February 1, 1999.
- Lecture: Introduction to Risk Management, Risk Policy Course, Johns Hopkins School of Public Health, Washington, DC, April 29, 1999.
- Lecture: Environment and Children, Introduction to Occupational and Environmental Medicine, University of Maryland School of Medicine, Baltimore, MD, May 6, 1999.
- Invited Panelist: The Epidemiologists Role in Policy Making, Summer Seminar on Environment and Policy, Johns Hopkins School of Public Health, Washington, DC, June 18, 1999.
- Lecture: Introduction to Risk Management, Risk Policy Course, Johns Hopkins School of Public Health, Baltimore, MD, July 1, 1999.
- Graduate Seminar: Children's Environmental Health, Department of Epidemiology, University of Maryland, Baltimore, MD, August 25, 1999.
- Module Leader and Instructor: Environmental Health Policy, Introduction to Health Policy and Management, Johns Hopkins School of Public Health, October 1999.
- Lecture: Environmental Protection in the Federal Government, Stanford University, November 4, 1999.
- Risk Management Module: Risk and Public Policy Course, Johns Hopkins School of Public Health, November-December 1999.
- Introduction to Public Health Practice, Course Instructor, Johns Hopkins School of Public Health, January-March 2000.

Professional Instruction (Grand Rounds, Continuing Education, etc.)

- Invited Speaker: Love Canal and Health of Children, UC San Francisco Pediatric Grand Rounds, 1984.
- Invited Speaker: Environmental Health Hazards, Roseville Community Hospital Medical Education Course, Roseville, CA, April 27, 1985.
- Invited Speaker: Environmental Health, Children's Hospital Grand Rounds, Oakland, CA, August 20, 1985.
- Invited Speaker: Community Health Effects Studies, Training for Santa Barbara, Ventura, and San Luis Obispo County Health Departments, Santa Barbara, CA, June 5, 1986.
- Invited Speaker: Community Health Effects Studies, Training for San Joaquin Local Health Department, Stockton, CA, September 4, 1986.
- Invited Speaker: Dioxin and Pentachlorophenol Toxic Effects, Butte County Medical Society, Oroville, CA, April 23, 1987.
- Invited Speaker: The Seriousness and Extent of Lead-Based Paint in Public Housing, Conference sponsored by Maintenance and Modernization Supervisor, San Francisco, CA, August 3, 1987.

- Invited Speaker: Childhood Lead Poisoning Prevention, Seminar for the Los Angeles County Department of Health September 8, 1987.
- Invited Speaker: Childhood Lead Poisoning: Epidemiologic Study in East Oakland, Grand Rounds: Children's Hospital Oakland, January 5, 1988.
- Invited Speaker: Childhood lead poisoning prevention, in Los Angeles County In-service Training, February 19, 1988.
- Plenary Speaker: Community Environmental Illness Investigation, in Butte/Glen County Symposium on Occupational and Environmental Health: Oroville, CA. March 9, 1988.
- Plenary Speaker: Risk Communication, in EPA Region IX Training Conference on Risk Communication: San Francisco, CA. April 8, 1988.
- Invited Speaker: Childhood Lead Poisoning in California, San Diego County Department of Health In-service Training. April 9, 1988.
- Plenary Speaker: Environmental Epidemiology and Risk Communication for Local Health Officers, California Conference of Local Health Officers Annual Conference (CME), November 4, 1988.
- Speaker: Koppers Oroville Dioxin and Pentachlorophenol Toxicology and Human Exposures, U.S. Environmental Protection Agency Region IX Seminar, San Francisco, CA, February 16, 1989.
- Speaker: Childhood Lead Poisoning Prevention for Primary Care Providers, Alameda County Health Department, Oakland, CA, August 9, 1989.
- Speaker: Childhood Lead Poisoning Prevention, Children's Hospital Medical Center Grand Rounds, Oakland, CA, August 15, 1989.
- Speaker: Childhood Lead Poisoning Prevention, Kaiser Oakland Department of Pediatrics, Oakland, CA, September 6, 1989.
- Speaker: Childhood Lead Poisoning Prevention, Los Angeles County Medical Association Conference on Environmental Health, Los Angeles, CA, September 27, 1989.
- Invited Speaker: Lead in Drinking Water, Health Officers' Association of California CME meeting, November 17, 1989.
- Invited Speaker: Childhood Lead Poisoning Prevention, Highland Hospital Training Seminar, Oakland, CA, November 27, 1989.
- Speaker: Introduction to Environmental Epidemiology and Risk Communication, Department of Health Services Training for Local Health Departments, Oakland, CA, February 21, 1990.
- Speaker: Introduction to Environmental Epidemiology and Risk Communication, Department of Health Services Training for Local Health Departments, Fresno, CA, March 14, 1990.
- Speaker: Introduction to Environmental Epidemiology and Risk Communication, Department of Health Services Training for Local Health Departments, Redding, CA, March 28, 1990.
- Invited Speaker: Childhood Lead Poisoning Prevention, San Diego County Lead Conference, San Diego, CA, April 19, 1990.
- Invited Speaker: Childhood Lead Poisoning Prevention in California, UC Davis Pediatric Grand Rounds, Davis, CA, May 4, 1990.

- Invited Speaker:** Childhood Lead Poisoning, Stanford Pediatric Group, Stanford, CA, May 8, 1990.
- Invited Speaker:** Childhood Lead Poisoning in California, Occupational Medicine Grand Rounds, UC San Francisco, San Francisco, CA, May 31, 1990.
- Keynote and Welcome,** Pediatric Environmental Health: A Course for Practitioners, Berkeley, CA, September 7, 1990.
- Speaker:** Heavy Metals, Pediatric Environmental Health: A Course for Practitioners, Berkeley, CA, September 8, 1990.
- Plenary Speaker:** Risk Communication, EPA Regional Risk Assessor's Workshop, San Francisco, CA, September 19, 1990.
- Speaker:** Risk Communication, ATSDR Environmental Health Conference, San Antonio, CA, March 6, 1990.
- Plenary Speaker:** Risk Communication, California Public Health Association-South Annual Meeting, Los Angeles, CA, December 7, 1990.
- Invited Speaker:** Lead and Other Environmental Metal Exposures, Pediatric Grand Rounds, Santa Rosa Community Hospital, July 12, 1991.
- Invited Speaker:** Heavy Metal - Not Music, American Academy of Pediatrics Annual Meeting (CME Session), New Orleans, LA, October 30, 1991.
- Invited Speaker:** Pediatric Environmental Health, UC Davis Pediatric Grand Rounds, Davis, CA, November 15, 1991.
- Invited Speaker:** Childhood Lead Poisoning Prevention, UC Davis Family Practice Grand Rounds, Davis, CA, March 23, 1992.
- Invited Speaker:** Current Controversies in Diagnosis and Treatment of Childhood Lead Poisoning, UCSF CME Course on Pediatrics, San Francisco, CA, May 15, 1992.
- Invited Speaker:** Career Options for Pediatric Residents, American Academy of Pediatrics Northern California Chapter, San Francisco, CA, September 16, 1992.
- Invited Speaker:** Kids and the Environment: Pollutants in Our Community, Cedars Sinai Hospital, Los Angeles, CA, October 28, 1992.
- Invited Lecturer:** 1996 Food Quality Protection Act: Update on Pesticide Regulation and Medical Surveillance and Physician Education, American College of Occupational and Environmental Medicine Postgraduate Seminar, Boston, MA, April 27, 1998.
- Plenary Speaker:** Breast Cancer, the Environment and Public Policy, National Breast Cancer Coalition Fund, Sixth Annual Advocacy Training Conference, Washington, DC, May 4, 1998.
- Invited Speaker:** Children's Environmental Health, Conference on Managing Pediatric Environmental Hazards, Johns Hopkins University Mid Atlantic Health Leadership Institute, Ocean Beach, MD, October 1, 1999.

RESEARCH GRANT PARTICIPATION

Active

Pew Environmental Health Commission (Shelley Hearne, Director)	1999-2000 \$2.8 million
Children's Environmental Health Project, Lynn Goldman, PI The ultimate goal is the revitalization of the nation's public health system. The Children's Environmental Health Project will produce a series of three sets of reports on children's health, surveillance and policy.	60%, 1999 30%, 2000
National Institute of Environmental Health Sciences	April 1999- May 2000
Science Advisor, Director, National Toxicology Program, Lynn Goldman, P.I.	\$41,181
Assist the National Toxicology Program in development of initiatives related to assessment of hazards and exposures to children and high volume chemical testing.	20%
U.S. Centers for Disease Control and Prevention	July 1999- June 2001
Advisor, National Center for Environmental Health, Lynn Goldman, P.I. Provide general advice and consultation to CDC in development of environmental public health programs and specifically assist with the children's environmental health initiative, the environmental health indicators project, and development of policy for public health pesticides	\$314,000 50%

Previous

U.S. Centers for Disease Control Grant Expanding State and Community Based Childhood Lead Poisoning Prevention Programs (Lynn Goldman, PI) Build the capacity of the State of California for surveillance and intervention of childhood lead poisoning.	1992-93 \$475,000
U.S. Centers for Disease Control Grant Epidemiologic Evaluation of Childhood Leukemia and Parental Exposure to Ionizing Radiation at Lawrence Livermore National Laboratory, (Peggy Reynolds, PI) Link childhood cancer surveillance and birth certificate records to study cancer rates in a community where adults were likely to be employed in a nuclear facility, to determine whether parental exposure to ionizing radiation exposure was associated with risk of leukemia in their children. Role: Co-Investigator	1992-93 \$100,000 (+\$60,000 state) 5% in kind effort

NIEHS Center Grant		
U.C. Berkeley Superfund Research Center, Martyn Smith (PI)	1992-93	
Kids and the Environment Project	\$135,486	
Establish an educational program in pediatric environmental health.		
Role: Co-Investigator		
Grant # DE-FG03-91SF18983	1991-93	
Santa Susana Field Laboratory Health Studies, Lynn Goldman (PI)	\$375,722	
Issue a request for proposals and establish an expert oversight committee to conduct an epidemiologic study of exposures and health effects to workers who had potential exposures to radiation and chemicals at a Department of Energy contract laboratory.	5% in kind	
ATSDR Project #U61/ATU9900062-02		
Environmental Health Training for Pediatricians, Lynn Goldman (Co-PI)	1990-92	
Develop environmental health curriculum for pediatric health providers.	\$123,047	
ATSDR Public Health Assessments of National Priority List Sites	1989-92	
Cooperative Agreement		
Health Assessments of California NPL Sites, Lynn Goldman (PI)	\$990,000	
Conduct public health assessments of California superfund sites.	5% in kind	

INVITED TALKS AND OTHER PRESENTATIONS

Scientific Symposia and Society Meetings

- Plenary Speaker: Growth and Health of Children Living Near a Hazardous Waste Site, The Scientific and Social Response from Exposure to Dioxin and Related Materials, Society for Occupational and Environmental Health, Arlington, VA, December 7, 1983
- Speaker: Love Canal and Growth of Children, Society for Pediatric Research, 1984.
- Invited Speaker: Limitations of Epidemiology by Concerned Citizens, CDC/ASTHO Second National Environmental Health Conference, Denver, CO, February 26, 1986.
- Plenary Speaker: Environmental Hazards to Children, Children's Environmental Health Conference, January 28, 1987, Children's Hospital: Oakland, CA.
- Speaker: Use of Vital Statistics to Look at Reproductive Outcomes around Hazardous Waste Sites, Emerging Child Health Issues Departmental Conference: Vallejo, CA. February 27, 1987.
- Speaker: Childhood Lead Hazards in California, Annual Meeting of the American Public Health Association, Dallas, TX, October 1987.
- Plenary Speaker: Watermelons: Solving a Mystery. Annual Meeting of the California Agricultural Production Consultants Association. Sparks, NV, November 3, 1987:

- Invited Speaker: Public Health Aspects of Hazardous Waste, Workshop on Risk Assessment for Hazardous Chemical Wastes, UCLA Engineering Research Center for Hazardous Substance Control, Los Angeles, CA, February 26, 1988.
- Speaker: Serum, Adipose, and Autopsy Tissue PCDD and PCDF Levels in People Eating Contaminated Beef and Chicken Eggs, 1988 International Conference on Dioxins and Related Compounds, Umea, Sweden, August 22, 1988.
- Invited Speaker: Cancer Clusters and the Environment, UC Irvine School of Medicine Conference on State Cancer Registries, Irvine, CA, October 15, 1988.
- Speaker: Childhood Lead Poisoning in California, American Public Health Association Annual Meeting, November 16, 1988.
- Invited Speaker: Workshop: Committee on National Monitoring of Human Tissues, National Research Council, Washington, DC, January 24, 1989.
- Invited Speaker: Risk Assessment and Risk Communication, CSS, Asilomar, CA, March 5, 1989.
- Plenary Speaker: Case Study of a Cancer Cluster Investigation in a Central California Town, National Governor's Association Conference on Environmental Exposure Assessment, Salt Lake City, UT, March 28, 1989.
- Invited Speaker: Health Information on a Shoestring, ATSDR National Conference on Environmental Health, San Antonio, TX, June 21, 1989
- Invited Speaker: Conference on Proposition 65, International Life Sciences Institute, Berkeley, CA, September 18, 1989.
- Speaker: Childhood Cancer Clusters, Cancer Registries Annual Conference, Irvine, CA, March 1, 1990.
- Speaker: Environmental Health, California Public Health Association Annual Meeting, March 30, 1989.
- Plenary Speaker: Childhood Lead Poisoning Surveillance in California, Council on State and Territorial Epidemiologists Annual Meeting, Lake George, NY, April 9, 1990.
- Invited Speaker: Environmental Health in Public Health, Future of Public Health: A Conference Sponsored by the California Public Health Association, Los Angeles, CA, April 25, 1990.
- Plenary Speaker: Childhood Lead Poisoning in California, Department of Health Services Conference on Childhood Lead Poisoning Prevention, May 4, 1989.
- Speaker: McFarland Cancer Cluster and the Four County Cancer Study, Association of State and Territorial Risk Assessors, Berkeley, CA, August 3, 1989.
- Invited Speaker: McFarland as a Case Study of Inequity in Environment and Access to Medical Care, Rural Agricultural Health Conference, UC Davis, Davis, CA, June 6, 1990.
- Speaker: Childhood Lead Poisoning in California, International Society for Environmental Epidemiology, Annual Meeting, Berkeley, CA, August 15, 1990.
- Invited Speaker: Environment and Cancer, California Cancer Registries Conference, Sacramento, CA, February 20, 1991.
- Plenary Speaker: Practical Approaches to Cluster Investigation, California Public Health Foundation Risk Assessment Workshop, San Francisco, CA, March 27, 1991.
- Invited Speaker: Cancer Cluster Investigations, CRCR California Cancer Registries Conference, Irvine, CA, April 26, 1991.

- Speaker:** Malathion Medfly Spraying: Exposure Assessment, Symposium on Pest Eradication, California Department of Health Services, Berkeley, CA, April 29, 1991.
- Plenary Speaker:** Evaluation of an Illness "Cluster", American Occupational Health Conference, San Francisco, CA, May 3, 1991.
- Speaker:** McFarland Childhood Cancer Cluster and Study of Cancer Rates in a Four County Area, Council of State and Territorial Epidemiologists, Annual Meeting, San Diego, CA, May 22, 1991.
- Speaker:** Doctor, What Is the Answer? Symposium on Children's Environmental Health, Children's Hospital, Oakland, CA, May 30, 1991.
- Invited Speaker:** Childhood Lead Poisoning Surveillance, Forum on Occupational Lead Poisoning, Northern California Occupational Health Center, San Francisco, CA, June 4, 1991.
- Invited Speaker:** Lead and Other Environmental Metal Exposures, Symposium on Clinical Toxicology and Emergency Medicine, UC San Francisco, San Francisco, CA, June 9, 1991.
- Speaker:** Childhood Lead Poisoning: The Public Health Response in California, First National Conference on Childhood Lead Poisoning Prevention, Alliance to End Childhood Lead Poisoning, October 7, 1991.
- Invited Speaker:** Children and Pesticides, National Migrant Health Network, Savannah, GA, November 9, 1991.
- Plenary Speaker:** Childhood Lead Poisoning, California Public Health Association-North Conference on the Challenge of Change in Public Health, Oakland, CA, January 31, 1992.
- Speaker:** Childhood Lead Poisoning: California Four City Study, International Society for Environmental Epidemiology, Cuernavaca, Mexico, August 27, 1992.
- Speaker:** Childhood Lead Poisoning in California: Three Cities Study, American Academy of Pediatrics Annual Meeting, San Francisco, CA, October 13, 1992.
- Plenary Speaker:** Environmental Health Surveillance, Fifth National Environmental Health Conference, Atlanta, GA, December 3, 1992.
- Breast Cancer Prevention Workshop,** National Institute for Environmental Health Sciences, Washington, DC, December 1992.
- Invited Speaker:** Conference on Human Tissue Monitoring, Research Triangle Park, NC, March 31, 1993.
- NIEHS Pediatric Environmental Health Research Workshop,** RTP, NC, June 1993
- Plenary Speaker:** EPA Regulation of Plant Pesticides, Food Safety Conference on Genetically Modified Foods, Georgetown Law Center, Washington, DC, October 8, 1993.
- Invited Speaker:** Risk Assessment: Federal Pesticide Policy, Toxic Exposures and the Environment, American College of Occupational and Environmental Medicine, January 20, 1994.
- Speaker:** Environmental Decision making with Competing Perspectives and Incomplete Information, Symposium on Public Perception and Scientific Reality in Environmental Risks, AAAS Annual Meeting, San Francisco, CA, February 21, 1994.

- Invited Speaker: Children and Environmental Health, American Academy of Pediatrics Annual Leadership Conference, Arlington, VA, March 6, 1994.
- Plenary Speaker: Paradigms - Presentation of Case Studies on Pesticides and Priority Air Pollutants, Conference: Preventing Child Exposures to Environmental Hazards: Research and Policy Issues. March 18, 1994: Washington, DC.
- Invited Speaker: Regulatory Reform and the Contract with America, DC Bar Association, Washington, DC, March 23, 1994.
- Speaker and Breakout Session Co-Chair: Risk Assessment-Related Research, National Science and Technology Committee, Committee on Environment and Natural Resources, Research Forum, National Academy of Sciences, March 28, 1994.
- Invited Speaker and Moderator: General Environmental Exposures, President's Cancer Conference, Bethesda, MD, April 7, 1994.
- Keynote Speaker: Primary Prevention of Childhood Lead Poisoning, Alliance to End Childhood Lead Poisoning Annual Meeting, Washington, DC, May 16, 1994.
- Invited Speaker: International Efforts to Eliminate Lead from Gasoline, Alliance to End Childhood Lead Poisoning, Annual Meeting, Washington, DC, May 20, 1994.
- Speaker: Colloquium on Environmental Hormones, Washington, DC, April 11, 1994.
- Invited Seminar: Risk Assessment and Regulatory Reform, Environmental and Occupational Health Sciences Institute, New Jersey, June 9, 1994.
- Invited Speaker: Risk Communication in Public Health, Center for Environmental Communication, Annapolis, MD, June 6, 1994.
- Invited Speaker: Pollution Prevention, Tenth Annual Woods Hole Conference on Pollution Prevention, June 16, 1994.
- Plenary Speaker: Initiatives for Pesticide Reform: The Need to Address Risks to Children, Eighth International Congress on Pesticide Chemistry, Washington, DC, July 5, 1994.
- Plenary Speaker: Pesticides and Children: The Need for Change in Risk Assessment Policies, Toxicology Forum, Aspen, CO, July 11, 1994.
- Invited Speaker: Environmental Medicine, American Association of Medical Colleges Student Representatives, Boston, MA, October 28, 1994.
- Invited Speaker: Federal Regulatory Perspective on International Public and Environmental Health, Global Environmental Change and Public Health: New Challenges and New Approaches, American Public Health Association Annual Meeting, Washington, DC, October 31, 1994.
- Plenary Speaker: Risk Assessment in Regulatory Decision-Making and Legislation, Environmental Risk Assessment: Politics and Policymaking: Inside EPA Conference, Arlington, VA, November 1, 1994.
- Invited Speaker: Child Health and the Environment, Wingspread Conference, Racine, WI, November 5, 1994.
- Keynote Address: Risks Along the Regulatory Superhighway, Society for Risk Analysis Annual Meeting, Baltimore, MD, December 5, 1994.
- Plenary Speaker: International Conference on Health Effects of Exposure to Lead and Benefits of Removing Lead from Gasoline, Smithsonian Institute, March 14, 1995.

- Plenary Speaker: EPA Perspective on Comparative Risk Assessment and Pesticide Regulation, Harvard Center for Risk Analysis Symposium on Comparative Risk Assessment, Washington, DC, March 30, 1995.
- Keynote and Welcome: EPA Endocrine Disruptor Research Needs Workshop, North Carolina, April 10, 1995
- Invited Speaker: Regulatory Reform, Water Science and Technology Board, National Research Council, May 1, 1995.
- Invited Speaker: Regulatory Reform, American Bar Association, Washington, DC, May 25, 1995.
- Plenary Speaker: Toxic Chemicals and Risk Assessment: Safeguarding Children and Other Sensitive Subpopulations, ATSDR International Congress on Hazardous Waste: Impact on Human and Ecological Health, Atlanta, GA, June 6, 1995.
- Invited Speaker: Risk Assessment and the Impact of Regulations on Economic Competitiveness, Government-University-Industry Research Roundtable, National Academy of Sciences, Washington, DC, June 30, 1995.
- Keynote Speaker: Children and the Environment: Child-centered Approaches to Public Health, National Association of County and City Health Officials 1995 Annual Conference: Joining Hands for a Healthy Community, Atlanta, GA, July 21, 1995.
- Invited Speaker: Strategies to Incorporate National Environmental Plans into National Development Plans and Programs, Pan American Health Organization Conference on Health and Development for Health and Environmental Ministers, Washington, DC, October 2, 1995.
- Keynote Speaker: Risk Assessment and Decision-Making at EPA, Inside Washington Publishers and Risk Policy Report Conference on Risk Assessment, Arlington, VA, October 17, 1995.
- Keynote Address: Regulatory Reform: Impact on EPA Risk Assessment Policy, Northern California Chapters of Society for Risk Analysis and Society of Toxicology, Emeryville, CA, November 1, 1995.
- Plenary Speaker: Updates and Strategies for the New Political Climate, The Annual Meeting of the American Public Health Association, San Diego, CA, October 31, 1995.
- Plenary Speaker: Reforming Environmental Risk Assessment: A Brief Overview of EPA Initiatives, Association for Public Policy Analysis and Management Conference: Reforming Environmental Risk Regulation – Taking Stock and Looking Ahead, Washington, DC, November 2, 1995.
- Invited Speaker: Preventive Strategies for Living in a Chemical World, Collegium Ramazzini, Washington, DC, November 4, 1995.
- Plenary Speaker: Pesticide Poisoning Among Children: Causes and Prevention, The 27th Ross Round Table on Critical Approaches to Common Pediatric Problems, Washington, DC, November 11, 1995.
- Plenary Speaker: Sound Management of Chemicals, Government of Mexico Conference on Sound Management of Chemicals, Mexico City, December 6, 1995.
- Plenary Speaker: Surveillance and Regulatory Policies--an EPA Perspective, Society for Occupational and Environmental Health Annual Conference: Advances in Medical Surveillance for Environmental and Occupational Health, Bethesda, MD, December 8, 1995.

- Plenary Speaker: EPA Actions to Improve Child Health Risk Assessment, National Research Council Conference: New Approaches for Assessing the Etiology and Risks of Developmental Abnormalities from Chemical Exposure, Washington, DC, December 12, 1995
- Keynote Speaker: Hormones in the Environment, 1995 Annual Meeting of the American Society of Zoologists, Washington, DC, December 29, 1995.
- Speaker: Risk Assessment: The New Panacea, Regulatory Morass, or Just a Tool? Preparing for the Future through Science and Technology: An Agenda for Environmental and Natural Resources Research. AAAS Annual Meeting, February 11, 1996.
- Plenary Speaker: Proper Diagnosis: Proper Response. The Use of Risk Assessment in Environmental Regulation and Policy Development, 25th Annual Conference on Environmental Law, American Bar Association, Keystone, CO, March 22, 1996.
- Keynote Address: Women's Health and the Environment: International Perspectives, 1996 Women in Science and Engineering Awards Program, National Academy of Sciences, Washington, DC, April 2, 1996.
- Keynote Speaker: Pesticide Risks and Children, International Life Science Institute, Health and Environmental Science Institute, Washington, DC, April 10, 1996.
- Plenary Speaker: EPA Policies on Regulation of Plant Pesticides in Genetically Modified Organisms, National Forum on Insect Resistance to *Bacillus Thuringiensis*, Bethesda, MD, April 15, 1996.
- Invited Speaker and Co-chair, Environmental Health, Canada and USA Forum on Women's Health, Ontario, Canada, August 9, 1996.
- Plenary Speaker: Pesticides, Chemicals and Right to Know, National Conference on Women, Health and the Environment, Boston, MA, September 20, 1996.
- Plenary Speaker: The Food Quality Protection Act, Association of State and Territorial Health Officials, Baltimore, MD, September 27, 1996.
- Plenary Speaker: Children's Health and Pesticides, Columbia School of Public Health Alumni Association and the Association of the Bar of the City of New York Conference on Environmental Health, New York, NY, October 25, 1996.
- Speaker: Persistent Organic Pollutants Criteria for International Action, Society of Environmental Toxicology and Chemistry Annual Meeting, Washington, DC, November 14, 1996.
- Plenary Speaker: Risk Assessment and Pesticide Reform, The President's Circle, National Academy of Sciences, Washington, DC, November 22, 1996.
- Plenary Speaker: Pesticides and Endocrine Disruption, International Workshop on Hormones in the Environment, Smithsonian Institution, Washington, DC, January 24, 1997.
- Speaker: Improving the Science and Judgment of Risk Assessment in the Clinton-Gore Administration. Symposium: Science-Based Risk Management in Regulatory Agencies --Assessing Risk Commission's Recommendations, The Annual Meeting of the American Association for the Advancement of Science, February 15, 1997
- Plenary Speaker: Pesticides and Children, National Children's Environmental Health Conference: Research, Practice, and Politics, Washington, DC, February 22, 1997.

- Invited Speaker: Regulation of Pesticides in the 21st Century, Foundation for Nutritional Advancement and Tufts University Conference, Boston, MA, February 24, 1997.
- Invited Speaker: Hormones in the Environment, Annual Joint Washington Women's Bar Association and American Medical Women's Association Meeting, Washington, DC, March 13, 1997.
- Invited Speaker: Linking Science and Policies for Protecting Public Health, NIH/NIEHS Conference on Estrogens in the Environment IV: Linking Fundamental Knowledge, Risk Assessment, and Public Policy, Arlington, VA, July 21, 1997.
- Plenary Speaker: EPA: Working to Improve the Health of Women and Children, National Women's Health Leadership Summit, Washington, DC, July 29, 1997
- Invited Speaker: Defining the Public Health Approach to Environmental Protection, Congressional Symposium on the Final Report of the Presidential/Congressional Commission on Risk Assessment and Risk Management, Washington, DC, August 8, 1997.
- Plenary Speaker: Chemicals and Children's Environment: What We Don't Know About Risks, U.S. Environmental Protection Agency Conference on Preventable Causes of Cancer in Children, Arlington, VA, September 15, 1997
- Invited Speaker: Health and Environmental Protection 1997-1998: Focus on Priorities is Paying Off, The Annual Meeting of the American Public Health Association, Indianapolis, IN, November 10, 1997.
- Invited Speaker: Colloquium on Scientific Advances and the Future of Toxicologic Risk Assessment, National Academy of Sciences, Washington, DC, December 4, 1997.
- Invited Speaker: Symposium on Performance Based Environmental Management Systems, Brookings Institution, Washington, DC, December 4, 1997.
- Speaker: EPA Regulation of Pesticides in Food, National Academy of Sciences Committee on Food Safety Workshop, Washington, DC, March 16, 1998
- Plenary Speaker: Two Decades of Progress in the Evaluation of Environmental Risks to Male Reproductive Health, Hazardous Substances and Male Reproductive Health: International Conference, The New York Academy of Medicine, New York, NY, May 14, 1998.
- Invited Speaker: Food Quality Protection Act Risk Provisions for Children, Society for Risk Analysis Forum, Alexandria, VA, June 29, 1998.
- Keynote Speaker: Protecting Our Children From Environmental Risks, Children at Risk: Environmental Health Issues in the Great Lakes Region, Chicago, IL, July 8, 1998.
- Keynote Speaker: 1996 Food Quality Protection Act -- A New Day for Risk Assessment, Society for Risk Assessment, Alexandria, VA, July 29, 1998
- Invited Speaker: Epidemiology in Environmental Regulation, Symposium: From Epidemiology to Policy, Johns Hopkins University, Washington, DC, July 29, 1998.
- Plenary Speaker: Science and Policy Issues on Pesticides and Children, American College of Medical Toxicology Meeting Symposium on Pediatric Environmental Health--From Research to Policy, September 12, 1998.
- Plenary Speaker: Regulatory Issues: Protection of Infants and Children Pesticides and Susceptible Populations, Sixteenth International Neurotoxicological Conference, Little Rock, AR, September 13, 1998.

- Invited Speaker: Science and Policy Issues on Pesticides and Children, Twentieth Rochester Conference on Developmental Disabilities, on the "Role of Environmental Neurotoxins in Developmental Disabilities," at the University of Rochester School of Medicine and Dentistry, the University of Rochester, Rochester, New York September 25, 1998.
- Plenary Speaker: Partnerships to Strengthen Efforts to Prevent Breast Cancer, DHHS Conference on "Partnering to Improve Outcomes: Opportunities for Collaboration in Government Breast Cancer Programs", Alexandria, VA, September 28, 1998.
- Plenary Speaker: Global Trade and Environment Initiatives, Society for Occupational and Environmental Health Annual Conference, Bethesda, MD, October 19, 1998.
- Plenary Speaker: Industrial Globalization and Public Health: A Case for Involvement, The Annual Meeting of the American Public Health Association, Washington, DC, November 16, 1998.
- Invited Speaker: Protecting Our Children from Environmental Risks, Johns Hopkins University Symposium on Environmental Health, December 11, 1998.
- Invited Participant: Environmental Information Disclosure and Stakeholder Involvement: Searching for Common Ground, Vanderbilt University Center for Environmental Management Studies, Nashville, TN, March 3, 1999
- Invited Speaker: American Cancer Society, Schilling Research Conference: The Environment and Cancer, Santa Cruz, CA, March 21, 1999
- Invited Speaker: Dioxins and PCBs, Meet the Green Book Authors Session, American Academy of Pediatrics Spring Meeting, Chicago, IL, April 18, 1999.
- Plenary Speaker: Building a Research Agenda in Children's Environmental Health in the Next Decade, Environmental Influences On Children: Brain, Development and Behavior, New York Academy of Medicine, New York, NY, May 25, 1999.
- Speaker: Alternatives to DDT for Malaria Control and the Global POPs Negotiation, Global Health Council Annual Meeting, Arlington, VA, June 21, 1999.
- Invited Presentation: Mercury Toxicity and Federal Regulations, American Academy of Pediatrics Meeting on Thimerosal in Vaccines, Washington, DC, June 30, 1999.
- Invited Speaker: EPA Versus DHHS: Putting Public Health Back into Environmental Health, National Association of County and City Health Officials 1999 Annual Conference, Dearborne MI, July 15, 1999.
- Invited Speaker: Children's Exposure to Dioxins and Related Compounds: A Call for Urgency for International Action on the Global POPs Convention, Dioxin99, Venice, Italy, September 14, 1999.
- Plenary Speaker: Exposure Assessment: Regulatory and Legislative Issues, Conference: The Role of Exposure Assessment in the Prevention of Environmental Disease, Rockville, MD, September 22-24, 1999.
- Invited Speaker: Risk and Regulation, President's Circle Meeting: Science, Technology and the Law, National Academy of Sciences, Woods Hole, MA, September 24, 1999.
- Invited Speaker: Dioxins and PCBs, Integrating Environmental Health into Pediatric Practice, American Academy of Pediatrics Annual Meeting, Washington, DC, October 10, 1999.

- Plenary Speaker and Moderator: Developmental Neurotoxicity: Framing the Problem, Seventeenth International Neurotoxicity Conference, Children's Health and the Environment: Mechanisms and Consequences of Developmental Neurotoxicity, Little Rock, October 18, 1999.
- Speaker and Moderator: APHA Environment Section Calver Award Session, APHA Annual Meeting, Chicago, IL, November 8, 1999.
- Speaker: Introducing the Green Book, APHA Annual Meeting, Chicago, IL, November 8, 1999.
- Moderator: Special Session, "Celebrating Children", APHA Annual Meeting, Chicago, IL, November 10, 1999.
- Chair: Workshop on Susceptibility to Microbial Pathogens in Drinking Water, George Washington University, November 30-December 1, 1999.
- Invited Participant: Consultation to Ascertain Feasibility of Conducting a Longitudinal Cohort Study of Environmental Effects on Mothers and Children, U.S. Department of Health and Human Services, Washington, DC, January 12, 2000.

Invited Seminars

- Seminar: Love Canal Studies on Children, California Department of Health Services, 1984
- Speaker: Koppers Oroville Dioxin and Pentachlorophenol Toxicology and Human Exposures, U.S. Environmental Protection Agency Region IX Seminar, San Francisco, CA, February 16, 1989.
- Speaker: Pediatric Environmental Epidemiology, California Public Health Foundation, Berkeley, CA, January 26, 1990.
- Invited Speaker: Kids and Environment, EPA Women in Science and Engineering, EPA Region IX, San Francisco, CA, January 24, 1991.
- Invited Speaker: EPA's Perspective on Pollution Prevention, UCLA Center for Environmental Risk Reduction, May 2, 1996.
- Seminar: Use of Epidemiology in Public Policy, Johns Hopkins School of Public Health, October 4, 1996.
- Honorary Lecture: Current Initiatives on the Environment to Strengthen Women's Health Protection, The Second Annual Lecture on Women's Health and the Environment Sponsored by The Tulane/Xavier Center for Bioenvironmental Research with The Greater New Orleans Foundation Tulane/Xavier Center for Bioenvironmental Research Center, New Orleans, LA, October 9, 1998.
- Seminar: EPA: Protecting Against Chemical Risks, University of Texas Department of Gynecologic Oncology, M.D. Anderson Cancer Center, Houston, TX, December 2, 1998.
- Invited Speaker: Seminar on Environmental Health Policy, University of Washington School of Public Health, Seattle, WA, September 27, 1999.

Other Conferences and Presentations

- Invited Speaker: Toxics and Minority Communities: Building the Movement, Conference sponsored by the Center for Third World Organizing, Oakland, CA, August 5, 1987.
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- Invited Speaker: Childhood Lead Poisoning in California, Seminar: The Tragic Toll of Popular Toxins, Association for Retarded Citizens, California Annual Convention, San Diego, CA, February 27, 1988.
- Plenary Speaker: Clinton Administration Food Safety Policies, Produce Marketing Association, Washington, DC, October 25, 1993.
- Plenary Speaker: Pesticides and Children: the Need for Pesticide Reform, National Pest Control Association, Washington, DC, October 26, 1993.
- Plenary Speaker: Lead Risks for Children and EPA Policy for Lead Poisoning Prevention, Lead/Tech Annual Meeting, Washington, DC, October 28, 1993.
- Invited Speaker: EPA Policies for Pesticides and Food Safety, Chemical Manufacturer's Association Biocides Meeting, November 9, 1993.
- Invited Speaker: Clinton Administration Pesticide Reform Policies, Pesticide Reform Campaign Meeting, National Wildlife Federation, Washington, DC, December 13, 1993.
- Invited Speaker: Pesticide Reform Initiatives, American Bar Association Pesticide Subcommittee, Washington, DC, January 25, 1994.
- Plenary Speaker: Pesticide Reform Initiatives, National Association of State Departments of Agriculture Annual Meeting, Arlington, VA, February 27, 1995.
- Plenary Speaker: Pesticides and Risks to Children, Women's Issues Network, Chicago, IL, March 1, 1994.
- Invited Speaker: Clinton Administration Pesticide Reform Initiatives, National Coalition against the Misuse of Pesticides Annual Meeting, Alexandria, VA, March 12, 1994.
- Invited Speaker: Environmental Threats to Health, Physicians for Social Responsibility, Washington, DC, March 19, 1994.
- Dinner Speaker: 33/50 Program Celebration, Williamsburg, VA, June 1, 1994.
- Keynote Speaker: Pesticide Reform Initiatives, National Agri-Marketer's Association, Chicago, IL, September 18, 1994.
- Invited Speaker: Pesticide Reform Initiatives, National Agricultural Chemicals Association, White Sulphur Springs, WV, September 25, 1994.
- Keynote Speaker: EPA Efforts to Prevent Childhood Lead Poisoning, Lead/Tech Annual Conference, Washington, DC, October 18, 1994.
- Invited Speaker: Hearing on Breast Cancer and the Environment, Massachusetts Breast Cancer Coalition, Boston, October 28, 1994.
- Invited Speaker: Pollution Prevention and Children's Health, National Roundtable of State Pollution Prevention, Minneapolis, MN, November 2, 1994.
- Plenary Speaker: Chemical Right to Know, Chemical Week's Third Annual Environmental Conference, Houston, TX, January 16, 1995.
- Invited Speaker: Initiatives to Expand Right to Know, Chemical Producers and Distributors Association, Arlington, VA, January 23, 1995.
- Plenary Speaker: Reinventing EPA Science, NEPI Roundtable for Reinvention: A New Role for Science, Washington, DC, February 16, 1995.
- Keynote Speaker: Delaney Clause and Pesticide Reform Initiatives, International Apple Industries Association, Washington, DC, February 24, 1995.
- Invited Speaker: Chemical Right to Know, SOCMA Annual Meeting, Washington, DC, March 1, 1995.

- Plenary Speaker: EPA Pesticide Reform Initiatives, American Association of Pesticide Control Officials, Arlington, VA, March 13, 1995.
- Invited Speaker: Clinton Administration Pesticide Reform Initiatives, National Coalition against the Misuse of Pesticides Thirteenth National Pesticide Forum, Alexandria, VA, March 18, 1995.
- Plenary Speaker: EPA's Common Sense Approach to the Electronics Industry, Electronic Industries Association, Washington, DC, March 28, 1995.
- Plenary Speaker: Environment and Women's Health, National Breast Cancer Coalition, Washington, DC, May 1, 1995.
- Invited Speaker: Clinton Administration Pesticide Reform Initiative, American Farm Bureau Federation, Washington, DC, May 1, 1995.
- Plenary Speaker: A Commonsense Approach to Environmental Protection for the Computer and Electronics Industry, International Symposium on Electronics and the Environment, Orlando, FL, May 2, 1995.
- Keynote Speaker: Pesticide Reform Initiatives: Protecting Our Children, Soap and Detergents Association, Arlington, VA, May 16, 1995.
- Invited Speaker: Food Safety, Food Quality and Protection, American Agri-women, Washington, DC, June 5, 1995.
- Invited Speaker: Breast Cancer and the Environment, Public hearing on breast cancer sponsored by the Southern Women for Health and the Environment, New Orleans, LA, July 21, 1995.
- Keynote Speaker: Regulatory Reform and the Environment, Agri-Dealer Legislative Conference, Agricultural Retailers Association, Washington, DC, July 26, 1995.
- Invited Speaker: EPA Policies: A Prescription for Improved Health and Environmental Protection, American Crop Protection Association, White Sulphur Springs, WV, September 24, 1995.
- Keynote Speaker: Clinton Administration Directions for TSCA, Living with TSCA, Chemical Manufacturers Association, Washington, DC, October 11, 1995.
- Keynote Speaker: Receptor-Mediated Toxicology: Ecological and Biological Threats of Environmental Pollutants and Toxins, RESOLVE Conference: Infertility Education, Advocacy and Support, New York, NY, October 20, 1995.
- Invited Speaker: Meet the Regulators, National Food Processors Association Annual Meeting, Chicago, IL, November 6, 1995.
- Plenary Speaker: Real Estate Lead Disclosure and Right to Know, National Association of Realtors Annual Meeting, Atlanta, GA, November 10, 1995.
- Plenary Speaker: Safe Schools, Florida Education Association United, Orlando, FL, February 3, 1996.
- Plenary Speaker: Pesticide Reform and Right to Know, Chemical Producers and Distributors Association Annual Meeting, Arlington, VA, February 12, 1996.
- Keynote Speaker: Pollution Prevention Trade Association Symposium, Washington, DC, June 3, 1996.
- Invited Speaker: Dedication of the "We All Live Downstream" Exhibit, Denver Children's Museum, Denver, CO, June 27, 1996.
- Invited Speaker: National Youth Leadership Forum on Medicine, College Park, MD, July 2, 1996.

- Plenary Speaker: 1996 Presidential Green Chemistry Challenge Awards Ceremony, Washington, DC, July 11, 1996.
- Invited Speaker: Endocrine Disruptors in the Environment, Chemical Manufacturer's Association, July 30, 1996.
- Keynote Speaker: The Food Quality Protection Act, American Crop Protection Association, Washington, DC, September 10, 1996.
- Keynote Speaker: The Food Quality Protection Act, National Association of State Departments of Agriculture, Lake Geneva, WI, September 24, 1996.
- Invited Speaker: Implementation of the Food Quality Protection Act, American Crop Protection Association, White Sulphur Springs, WV, September 29, 1996.
- Invited Speaker: TRI Expansion Plans, National Association of Manufacturers Environmental Forum, October 3, 1996.
- Keynote Speaker: The Toxic Substances Control Act: Twenty Years Later, TSCA 20th Anniversary Conference, Arlington, VA, November 12, 1996.
- Invited Speaker: The Clinton Administration's Commitment to Environment, Health and Justice, National Jewish Community Relations Advisory Council and Jewish Environmental Leadership Training Institute, Washington, DC, February 17, 1997.
- Keynote Address: Stewardship in the Computer and Electronics Sector, Electronic Product Recovery and Recycling Conference, Washington, DC, February 25, 1997.
- Invited Speaker: The Food Quality Protection Act of 1996 -- Implementing It and What It Means, The Food Group, Washington, D.C., April 9, 1997.
- Invited Speaker: Society of Women Environmental Professionals, Washington, DC, April 17, 1997.
- Plenary Speaker: The Clinton Administration and EPA: Working to Protect Our Children's Health, Children's Health Environmental Coalition First Annual Children's Health Environmental Symposium, Sundance, UT, April 27, 1997.
- Plenary Speaker: Presidential Green Chemistry Award Ceremony, Washington, DC, June 23, 1997.
- Keynote Speaker: Fifty Years of Pesticide Regulation, FIFRA Anniversary Celebration, Washington, DC, June 25, 1997.
- Invited Speaker: National Youth Leadership Forum, Arlington, VA, July 8, 1997.
- Keynote Speaker: EPA Approach to Consumer Protection, RISE Annual Conference, Arlington, VA, September 5, 1997.
- Plenary Speaker: Environmental Right-to-Know and the Toxics Release Inventory--Continuing the Revolution, Annual Conference on Right to Know, October, 1997.
- Invited Speaker: Reporting of Adverse Pesticide Effects: Policy Objectives, Chemical Producers and Distributors Association Workshop, Alexandria, VA, November 4, 1997.
- Implementing the Food Quality Protection Act of 1996 -- What It Means to the Food Industry, The Food Group, Washington, D.C., November 12, 1997.
- Plenary Speaker: Food Quality Protection Act, USA Rice Federation, Arlington, VA, January 15, 1998.

- Invited Speaker: The Impact of the 1996 Food Quality Protection Act On Louisiana Growers, Louisiana Cotton Producers Association Annual Meeting, Monroe, LA, January 23, 1998.
- Plenary Speaker: Food Quality Protection Act, American Farm Bureau Federation, January 30, 1998.
- Keynote Address: Implementing the 1996 Food Quality Protection Act -- What It Means to the Pesticide Manufacturing and Marketing Industry, Chemicals Producers & Distributors Association Mid-Year Meeting, Washington, DC, February 9, 1998.
- Plenary Speaker: New Protections Under the 1996 Food Quality Protection Act: Accounting for Risks From Pesticides in Drinking Water, Association of Metropolitan Water Agencies 1998 Legislative/Regulatory Conference, Washington, DC, March 24, 1998.
- Keynote Address: Implementing the 1996 Food Quality Protection Act, American Association of Pest Control Officials Spring Meeting, Alexandria, VA, March 9, 1998.
- Keynote Address: 1998 Electronic Product Recovery and Recycling (EPR2) Conference, Washington, D.C., April 22, 1998.
- Keynote Address: FQPA Policy and Intent, American Crop Protection Association Spring Conference, Arlington, VA, April 23, 1998.
- Keynote Address: Building Bridges and Partnerships to Better Protect the Environment and Public Health, EPA Annual Antimicrobial Workshop, Washington, DC, June 15, 1998.
- Invited Speaker: Pollution Prevention, National Association of Physicians for the Environment, Washington, DC, June 26, 1998.
- Plenary Speaker: 1998 Presidential Green Chemistry Challenge Awards Ceremony, Washington, DC, June 29, 1998.
- Plenary Speaker: Environmental Initiatives to Protect Women's Health, U.S. Public Health Service and Society for the Advancement of Women's Health Research, Washington, DC, September 10, 1998.
- Keynote Speaker: Chemical Regulation and Pollution Prevention, SOCMA Annual Meeting, Washington, DC, September 23, 1998.
- Invited Speaker: Pesticide Regulation at EPA and Biotechnology, American Crop Protection Association Annual Meeting, White Sulphur Springs, WV, September 29, 1998.
- Keynote Address: TSCA: Looking Back -- Looking Forward, "Living With TSCA" Conference, Washington, DC, November 13, 1998.
- Invited Speaker: Chemical Manufacturer's Association Research Initiative Announced, National Press Club, Washington, DC, January 27, 1999.
- Plenary Speaker: Considerations for the Screening and Testing of Chemicals for Endocrine Disruptor Potential, Learning Disabilities Association Annual Meeting, Atlanta, GA, February 24, 1999.
- Moderator and Summation: Panel on Pesticides and Food Safety, Public Voice Annual Conference, Washington, DC, March 16, 1999.
- Speaker: National Environmental Trust Press Briefing on Asthma and Climate Change, National Press Club, Washington, DC, October 6, 1999.

Speaker: American Public Health Association Briefing on Residential Pesticide Exposures, U.S. House of Representatives, Washington, DC, October 8, 1999.
Invited Speaker: Is the Environment a Women's Issue? Women's National Democratic Club, Washington, DC, October 26, 1999.

RESEARCH OBJECTIVES

Children's Health and Environmental Exposures: Environmental health seeks to understand how risks within the population vary with respect to exposure, developmental stage and genetic susceptibility. I have worked to develop regulatory and science policies to address risks to children. Earlier in my evolution this involved studies of growth of children living near Love Canal, childhood lead exposure and childhood cancer clusters. Later, I led the development of the first pediatric environmental health curriculum and I helped establish the Children's Environmental Health Network. At the EPA, I helped to create the blueprint for the EPA's child health initiative, including children's environmental health research centers, new child-protective policies at the EPA, and an Executive Order that directed agencies to consider children's exposures and susceptibilities in decision making. I led the EPA effort to enact the Food Quality Protection Act of 1996 that established a new standard for pesticides that accounts for risks to children. Currently I am writing a series of reports for the Pew Environmental Health Commission on children's environmental health. Under the IPA with the CDC, I am assisting with the federal children's health initiative with an effort to establish a large prospective study of children's health and environmental exposures. I am also working on developing a set of environmental indicators for use by public health agencies. With NIEHS support, I am involved with the Center for Developmental and Reproductive Toxicity. Future efforts will be to understand the role of environmental factors in diseases of children, exposures of children, and the role of developmental stage in susceptibility. I will incorporate that information into public health policy analysis.

International Chemical and Biotechnology Safety: As trade and development become more global in nature, the issue of chemical and biotechnology safety will take on a larger and larger public health importance. While at EPA I worked on the development of the Intergovernmental Forum on Chemical Safety and led three major efforts to negotiate global agreements on prior informed consent, harmonization of classification and labeling of chemicals and persistent organic pollutants. Future work will involve developing an understanding of the global chemical and biotechnology issues that are of public health importance and contributing to the development of policy approaches to address health and safety. I will carry out this work via the NIEHS and in the future will seek to work directly with the World Health Organization, the United Nations Environment Program, and other international bodies.

Right-to-Know and Chemical Assessment: Risk assessment and right-to-know are useless policy tools in the absence of information about hazards. While at the EPA I chaired the Endocrine Disruptor Screening and Testing Advisory Committee and led the effort to create voluntary data call-in for high production volume chemicals and hazard assessment for chemicals that expose children. These efforts will result in a tremendous increase in the information about chemicals. Future work will involve analysis of data gaps and data needs and development of practical approaches to filling those gaps in knowledge and providing information to the scientific community and the public. This work is currently a part of the effort with the NIEHS. I anticipate that there will be opportunities to collaborate with other faculty in the Department of Environmental Health Sciences on these issues.