

Program Director/Principal Investigator:  
Froines, John R.

## **CURRICULUM VITAE**

**John R. Froines, Ph.D.**

### **I. PERSONAL PARTICULARS**

Academic Title: Professor  
Department of Environmental Health Sciences  
UCLA School of Public Health

Director  
UCLA Sustainable Technology & Policy Program

Business Address: University of California, Los Angeles  
School of Public Health  
[REDACTED]  
[REDACTED]  
Telephone: [REDACTED]  
Fax: [REDACTED]

### **II. ACADEMIC INTERESTS**

Toxicology and exposure assessment. Research interests are in the qualitative and quantitative characterization of risk factors from environmental and occupational exposures. Special emphasis on exposure assessment and hazard surveillance research. Biomarkers/genetic toxicology in the study of chemical carcinogenesis and non-cancer toxicity. Studies on the carcinogenicity of arsenic, beryllium, and chromium. Health effects and toxicity of airborne particulate matter.

### **III. EDUCATION**

Ph.D.	Physical-Organic Chemistry	Yale University	1967
M.S.	Physical-Organic Chemistry	Yale University	1964
B.S.	Chemistry	University of California (Berkeley)	1963

### **IV. PROFESSIONAL AND ACADEMIC EXPERIENCE**

1966 – 1968	NIH Postdoctoral Research Fellow, Royal Institute of Great Britain (London).
1968 – 1970	Assistant Professor – Physical Chemistry, University of Oregon
1970 – 1972	Self-employed – Lecturer
1972 – 1974	Professor of Chemistry, Goddard College, Plainfield, Vermont

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1974 – 1977 Director, Division of Occupational and Radiological Health, Vermont Health Department, Barre, Vermont.

*Concurrently served in the following:*

Adjunct Associate Professor of Community Medicine, Dartmouth Medical School

Assistant Professor of Epidemiological and Environmental Health, University of Vermont Medical School

Consultant in Occupational Health to the Harvard School of Public Health

Director, Occupational Lung Disease Program of the Vermont Lung Center

1977 – 1979 Director, Office of Toxic Substances Standards, Occupational Safety and Health Administration, Washington, D.C

1979 – 1981 Deputy Director of National Institute for Occupational Safety and Health, Rockville, Maryland

1981 – 1986 Acting Associate Professor, Division of Environmental and Occupational Health Sciences, UCLA School of Public Health

1986 – Present Professor, Department of Environmental Health Sciences, UCLA School of Public Health

1989 – 2009 Director, UCLA Center for Occupational and Environmental Health Sciences, UCLA School of Public Health

1994 – 1998 Chair, Department of Environmental Health Sciences, UCLA School of Public Health

1995 – 2000 Director, UCLA Pollution Prevention Education and Research Center (PPEREC)

1999 – Present Director, Southern California Particle Center and Supersite

2003 – 2007 Director, Centers for Environmental Quality and Health, UCLA School of Public Health

2003 to Present Director, Asthma and Outdoor Air Quality Consortium Advisory Board, SCAQMD

2008 to Present Director, Sustainable Technology Policy Program

## **V. PROFESSIONAL APPOINTMENTS AND COMMITTEE SERVICE**

1975 – 1976 Chairman, New England Radiological Committee, Vermont Health Department

1976 – 1978 APHA Energy Policy Task Force, Vermont Health Department

1980 American Lung Association Committee, Occupational Lung Disease

1980 – 1981 ~~Advisory Committee on Occupational Health, International Association of Firefighters~~

- 1982 – 1985      Advisory Committee, Hazardous Materials Task Force, City of Los Angeles  
  
Director of Branch Development, American Cancer Society  
  
Board of Directors, American Industrial Hygiene Association, Los Angeles Section  
  
Advisory Committee, UCLA Preventive Medicine Residency Program  
  
UCLA Legislative Senate  
  
Committee on International Health, American Public Health Association  
  
Committee on Biological Monitoring in the Workplace, American Industrial Hygiene Association  
  
Vice President of American Cancer Society, Los Angeles Coastal Cities Unit
- 1983 – Present      Chairman, Scientific Review Panel, California Air Resources Board
- 1985 – 1987      Advisory Committee on Hazardous Waste Reduction, Office of the Mayor, City of Los Angeles  
  
Advisory Committee on Hazardous Waste Materials Data Management, Agency for Environmental Affairs, State of California
- 1985 – 1987      Invited Expert, Workshop on Needs and Resources for Occupational Mortality Data, National Center for Health Statistics, Washington, D.C.  
  
Expert Panelist, “Neurotoxicity”, National Symposium on the Prevention of Leading Work-Related Diseases and Injuries, Association of Schools of Public Health and the Association of University Programs in Occupational Health and Safety
- 1986 – 1988      Faculty Executive Committee (FEC), UCLA School of Public Health  
  
Advisory Board for Toxic & Hazardous Materials Program, UC Extension  
  
UCLA Project on US – Mexico Socioeconomic, Environmental and Technological Relations
- 1988 – 1989      Advisory Committee on Risk Assessment, South Coast Air Quality Management District  
  
Blue Ribbon Commission on Casmalia Hazardous Waste Site, Santa Barbara County  
  
NIOSH Surveillance Task Force  
  
UCLA Project on US – Mexico Socioeconomic, Environmental and Technological Relations

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Board of Directors (Acting), National Science Foundation Engineering Research Center  
on Hazardous Waste

- 1989 – 1991 Search Committee, Occupational Toxicology Faculty, Environmental Health Sciences,  
UCLA School of Public Health
- 1990 Planning Committee, Public Health in the 1990's, Statewide Conference – Western  
Consortium for Public Health and Department of Health Services
- 1990 – 1992 MPH Comprehensive Exam Committee, Environmental Health Sciences, UCLA School of  
Public Health
- Sub Committee of EPCC on Degree Requirements and Curriculum, UCLA School of  
Public Health
- Seminar Committee, Environmental Health Sciences, UCLA School of Public Health
- Search Committee for Occupational Epidemiology Faculty, UCLA School of Public  
Health
- 1990 – 1992 Search Committee for Occupational Medicine Faculty, UCLA School of Public Health
- Taskforce on Toxic Use Reduction, UCLA School of Public Health and School of  
Architecture and Urban Planning
- Source Reduction Working Group, Toxic Substances Research & Teaching Program, UC  
Davis
- Advisory Committee, USC-UCLA Joint Residency in Occupational Medicine
- 1991 – 1992 Proposition 65 Review Committee, California EPA
- Advisory Committee, California Department of Health Services Lead Project
- Committee to Implant AB 1430 – Toxic Use Reduction
- Committee to establish collaborative relationship on occupational and environmental  
health with Indonesia
- Coordination of the Collaborative Agreement between the government of Mexico and  
UCLA COEH to provide training and conduct research on occupational and environmental  
health problems of border industries
- Academic Policies and Procedures Committee, Environmental Health Sciences, UCLA  
School of Public Health
- Ad Hoc Task Force to consider issues facing professional education at UCLA, Office of  
the Chancellor
- Air Toxics Workshop Steering Committee, UCLA Center for Clean Technology

Key Leaders Committee, American Lung Association

Ad Hoc Expert Committee of the World Wildlife Fund, the Conservation Foundation;  
reviewed the EPA/OECD strategies on lead

- 1991 – 1994 Environmental Science Task Force of the state of California Department of Health Services
- 1991 – 1996 National Academy of Sciences Committee on Environmental Epidemiology
- 1992 – 1993 Computer Committee, School of Public Health, UCLA COEH
- 1992 – 1994 Objective Refining Team, Health Los Angeles 2000, Department of Health Services
- Human Health Sub Committee, California Comparative Risk Project, California EPA
- County of Los Angeles Department of Health Services Advisory Committee to the Toxic Epidemiology Program's Occupational Lead Education and Awareness Demonstration Project (OccLEAD Project)
- Faculty Advisory Committee for the Program on Mexico, UCLA Latin America Center
- 1992 – 1995 Advisory Panel, OSHA's Selection of Control Technologies and Assessment of Their Impacts and Costs, Office of Technology Assessment, Congress of the United States
- 1992 – 1996 B.K.K. Reproductive Outcome Study Scientific Advisory Committee, California Department of Health Services
- Search for Division Director Committee, NIOSH, Hazard Effects Laboratory Division
- 1993 – 1994 External Review Committee, Department of Environmental and Biomedical Science, UC Berkeley School of Public Health
- Computer Committee, School of Public Health, UCLA COEH
- 1993 – 1995 Environmental Studies Task Force, UCLA; Appointment by Vice Chancellor Andrea Rich
- 1993 – 1998 Environment, Safety and Health Panel of the UC President's Council on National Laboratories
- 1994 – 1996 Steering Committee, Consortium for Global Change and its Regional Impacts, Institute of Geophysics and Planetary Physics, UCLA
- 1994 – 1998 Faculty Council, UCLA School of Public Health
- Statewide Advisory Committee, Occupational Health Centers, President's Office, UC, Ex Officio
- ~~1994 – 1998 Advisory Committee, USC-UCLA Joint Residency in Occupational Medicine~~

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1994 – 2000      Advisory Committee Member, UCLA Center for Health Policy Research

1994 – 2010      Scientific Advisory Board, California EPA; Carcinogen Identification Committee for Proposition 65

1995 – 1999      Advising Committee, UC Berkeley Toxic Substances Research Training Program

1995 – 2001      Scientific Advisory Board Carcinogen Identification Committee, Office of Environmental Health Hazard Assessment, California EPA

1995 – Present    Principal Investigator, NIH Fogarty International Center, Training Program in Environmental Health

1995 - Present    Associate Director, NIEHS funded Southern California Environmental Health Sciences Center

1996 – 1998      Executive Committee, Institute of the Environment, UCLA COEH

1997 – 1998      UC Presidents' Task Force on Flood Research and Outreach

                         Ad Hoc Committee on Redesign of the Core Department Environmental Health Course, UCLA Environmental Health Sciences

1997 – 1999      Federal Advisory Committee on Beryllium, Department of Energy

1998 – 1999      Space Committee, UCLA School of Public Health

1998 – Present    Committee Member, Childhood Lead Poisoning Prevention Program

                         MATES II and MATES III Technical Advisory Committee, South Coast Air Quality management District

1999 – 2000      Academic Policy and Procedures Committee, UCLA Environmental Health Sciences

                         Faculty Advisory Committee, UCLA Labor Center and the LOSH Program

1999 – 2002      Laboratory and Equipment Committee, UCLA School of Public Health

1999 – 2003      Board of Scientific Counselors, National Toxicology Program

1999 – Present    Clean Fuels Advisory Group, South Coast Air Quality Management District

                         Scientific Advisory Board, Center for Vulnerable Populations Research

2000 – 2001      Expert Panel on Diesel Exhaust Exposure Assessment, Navistar International Transportation Corp/Air Resources Board

2001 – 2002      Search Committee for Environmental Health Sciences faculty, UCLA School of Public Health

- 2001 – Present California Work and Health Study Group Committee Member,  
Collaboration between UCLA and UCI
- 2002 – Present Advanced Air Pollution Research Plan Steering Committee, South Coast Air Quality  
Management District
- 2002 - 2007 Institute of Medicine, Roundtable on Environmental Health Sciences, Research, and  
Medicine
- 2003 – Present Chair, Asthma and Outdoor Air Quality Consortium Advisory Board, Southern California  
Air Quality Management District
- Search Committee for Occupational and Environmental Medicine faculty, UCLA School  
of Public Health
- 2003 Environmental Policy Advisory Task Force, Office of Governor-Elect Arnold  
Schwarzenegger
- 2003 – 2006 Search Committee for Environmental Health Sciences Department Chair,  
UCLA School of Public Health
- 2004 – 2010 SPH International Health Committee
- 2004 – Present Chair, Internal Advisory Board for NIEHS Center for Gene Environment Studies in  
Parkinson Disease
- 2004 – Present Member, External Scientific Advisory Committee, NIEHS Center for  
Environmental Health, Columbia University
- 2005 – 2006 SPH Seismic Safety Committee
- 2007 – Present IOM/NRC Committee to review NIOSH HHE Program
- 2008 – Present Member, LAUSD Advisory Committee on Siting of Schools in Proximity to Freeways

## **VI. CONSULTANCY**

- 1981 – 1982 Consultant, Occupational Health and Safety Project of the Institute of Society, Ethics and  
Life Sciences, the Hastings Center
- 1982 Consultant to law firm on toxics litigation (Mobil Oil Company)
- 1982 – 1983 Consultant, Carcinogenicity of Formaldehyde, Department of Industrial Relations, State of  
California
- 1984 Consultant to California Assembly on pesticide use in Los Angeles
- Consultant to California Assembly on lead poisoning at Duraspan, Inc.

- Consultant to City of Santa Fe Springs, California on identification of toxic substances
- Consultant to City of Santa Monica, California on asbestos in the City Library
- 1985 Consultant to law firm on the BKK landfill
- Consultant to Rand Corporation
- 1986 Consultant to Moldex Metric, Inc.
- Consultant to Garb Oil Corporation
- 1987 – 1988 Consultant to Gibraltar Savings
- Consultant to law firm on Proposition 65
- 1990 – 1991 Consultant to the City of Los Angeles, California on malathion spray
- Consultant to Heller, Erham, White and McAuliffe on groundwater contamination by perchloroethylene
- Consultant to the California Attorney General on ethylene oxide
- 1991 – 1994 Consultant to Heller, Erham, White and McAuliffe on BKK landfill
- Consultant to California OSHA on the implementation of SB 198
- Consultant to the U.S. General Accounting Office on “U.S.-Mexico Trade: The Work Environment of Eight U.S. – Owned Maquiladora Auto Parts Plan,” for the Chairman, Committee on Commerce, Science and Transportation, U.S. Senate
- 1993 – 1994 Consultant to the law firm of Cadwalader, Wickersham, and Taft on the use of bismuth as a replacement of lead in brass for plumbing fixtures
- Expert and consultant to the Environmental Defense Fund on methylene chloride risk assessment
- 1994 - 2000 Chair, Editorial Board, Proposition 65 News
- 1996 Consultant to the law firm of Kazan, McClain, Edises, Simon & Abrams involving the case of *Trotter vs. Trojan*, the Solano County Department of Public Health, California OSHA, and the Reliance Insurance Company
- 1997 Expert to the Natural Resources Defense Council on lead and calcium.;  
Consultant to the Lockheed-Martin Corporation on chromium
- Consultant to the City of Santa Monica on MTBE (methyl tertiary butyl ether)
- 
- ~~1994 - 1997 Expert to Manville Corporation on the carcinogenicity of man-made mineral fibers~~

- 1994 - 1997      Consultant to Heller, Ehrman, White and McAuliffe on the hazards associated with the BKK hazardous waste landfill
- Consultant to the Eljer Corporation on lead and bismuth toxicology
- 1997 – Present    Consultant to the Aluminum Company of America (ALCOA). Member of Alcoa's Occupational Health Advisory Committee
- 2000              Expert to the California Attorney General on toxicity/carcinogenicity and risk assessment of the pesticide "captan"
- 2003 – 2006      Consultant to Weston, Benschopf, Rochefort, Rubalcava, McCuish, LLP regarding landfill risk assessment

## **VII. HONORS, AWARDS, FELLOWSHIPS**

- 1963              *Predoctoral* – DuPont Teaching Fellowship
- 1964              *Predoctoral* – National Science Foundation Summer Fellowship
- 1964 – 1966      *Predoctoral* – National Institutes of Health Predoctoral Fellowship
- 1966 – 1968      *Postdoctoral* – National Institutes of Health Postdoctoral Fellowships
- Postdoctoral* – The Royal Institution of Great Britain. Research in biophysical chemistry under the direction of Nobel Laureate Professor George Porter
- 1968              University of Oregon Biomedical Research Grant
- Research Corporation Grant, Research on Photosynthesis, University of Oregon
- American Chemical Society, Petroleum Research Foundation Starter Grant, type G, University of Oregon
- 1973              Goddard College Faculty Renewal Grant, Goddard College
- National Science Foundation Teaching Equipment Grant, Goddard College
- 1980              Cash Award (\$1,000) for "Sustained Superior Performance", "Performance with Distinction and Integrity in Promoting the Principles of Occupational Safety and Health", Public Health Service, Center for Disease Control
- 1999              American Industrial Hygiene Association – Southern California Section, *1999 Technical Achievement Award*
- 1999              Coalition for Clean Air, *1999 Carl Moyer Award*
- 2000              The 26<sup>th</sup> Annual Lester Breslow Distinguished Lecture

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- 2001 Commendation from Governor Gray Davis on commitment to improving public health and the environment
- 2001 Recognition of Service from Winston H. Hickox Agency Secretary, California Environmental Protection Agency
- 2002 The Center for Community Action and Environmental Justice, *Dr. Zweig Community Health Advocate Award, 2002*
- 2009 Commendation from the Public Health Research Center and Medical Health Research Network of the University of Hong Kong in recognition of valuable contributions to the research findings of airborne particulate matter
- 2010 Clean Air Award Winner in the category of Promotion of Good Environmental Stewardship, South Coast Air Quality Management District
- 2010 Clean Air Award Winner in the category of Air Pollution Research, California Air Resources Board

## **VIII. EDITORIAL SERVICE**

### Current:

Associate Editor, Environmental Health Perspectives  
Editorial Board Member, Environmental Health Perspectives  
Associate Editor, American Journal of Industrial Medicine  
Reviewer, American Journal of Public Health  
Reviewer, Cancer Epidemiology, Biomarkers and Prevention  
Reviewer, Environmental Science and Technology  
Reviewer, Journal of the National Cancer Institute  
Reviewer, Public Health Reports  
Reviewer, Environmental Research

### Past:

Editorial Board Member, Occupational Hygiene  
Contributing Editor, International Journal of Occupational Medicine and Environmental Health  
Reviewer of Research Grants, March of Dimes, UCLA Jonsson Comprehensive Institute Cancer Center and California Policy Seminar  
Reviewer, Child Development  
Reviewer, Drug Metabolism Reviews  
Reviewer, Environmental Research  
Reviewer, Milbank Quarterly  
Reviewer, Resources for the Future  
Reviewer, Risk Analysis  
Reviewer, Science  
Ad Hoc Reviewer, NIH Study Section  
Reviewer, The Health Hazard Evaluation Program at NIOSH

## **IX. PRESENTATIONS**

- 1980                    *Seminars:*  
Harvard School of Public Health  
Harvard University, Kennedy School of Government  
University of Pittsburgh, School of Public Health  
University of Michigan  
George Washington University Medical School  
University of California, School of Public Health, Medical School (Berkeley and San Francisco)
- 1980                    Antioch School of Law
- 1980 – 1981           APHA Special Session  
Title: Impact of Energy on Health
- American Public Health Association (APHA) Annual Meeting  
Title: The Regulation Crisis: Government Responsibility in Occupational Health
- APHA Annual Meeting  
Title: Reproductive Hazards in the Workplace
- NIOSH International Respirator Research Workshop  
Title: Innovation in Respirator Research
- CIIT Conference on Formaldehyde Toxicity  
Chair of Epidemiology Panel
- ACGIH Symposium  
Title: Dosimetry for Chemical and Physical Agents, Opening Address
- Occupational Safety and Health Review Commission Judicial Conference  
Banquet Speaker
- President's Forum, American Paper Institute  
Title: NIOSH Research in the Paper Industry
- Internal Molders and Allied Workers Annual Convention
- US Commission of the European Communities, Seminar on Ambient and Biological Monitoring  
Title: Advances in Occupational Health
- American Chemical Society Annual Meeting  
Title: Access and Disclosure of Medical Records
- 1981                    UCLA – Swedish Conference on Occupational Safety and Health  
Title: Directions in Occupational Health
- 1982                    American Conference on Governmental Industrial Hygienists Meeting  
Title: Industrial Hygiene at UCLA

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APHA Western Regional Conference on Occupational Safety and Health  
Title: Directions in Occupational Health

- 1982 International Chemical Workers Union, Western Regional Conference  
Title: Occupational Cancer
- 1983 UCLA Institute of Industrial Relations Conference  
Title: Stress
- Federal Employees Occupational Safety and Health Meeting, Washington D.C
- 1984 American Occupational Medical Association  
Title: Toxicologic Data and Regulation
- The Environmental Improvement Division of the New Mexico Health and Environment  
Department  
Title: Toxics in the Workplace, "Right-to-Know" and "Public Policy"
- Federated Firefighters of California Occupational Health and Safety Section  
Title: Firefighting and Occupational Cancer
- 1985 British Columbia Professional Firefighters Association Meeting  
Title: Firefighter Exposure to Diesel Exhaust
- Illness and Disease Symposium, Bureau of Labor Statistics  
Title: Toward Improved Measurement and Reporting of Occupational Illness and Disease
- Department of Preventive Medicine, University of Southern California  
Title: Administrative Aspects of OSHA and NIOSH
- John P. Redmond Foundation Symposium on the Occupational Health Hazards of the Fire  
Service  
Title: Redmond Diesel Exhaust Study
- Dahlem Conference, Berlin  
Title: Mechanisms of Cell Injury: Implications for Human Health
- American Public Health Association Annual Meeting  
Title: Setting Priorities for Occupational Health
- Biomedical Research Association Presentation to the LA County Federation of labor  
Title: Experimental Research in Occupational Health
- 1986 Olympian Medical Corp Right to Know Workshop  
Title: Occupational Cancer
- 1986 NCI Conference  
Title: Obtaining and Using Information on Sampling in Occupational Epidemiologic  
Studies

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Location: Washington, D.C.

Labor Occupational Health Program, Institute of Industrial Relations, University of California, Berkeley, Statewide Conference for Workers throughout the Transit System  
Title: Diesel Fumes

1989 State of California Senate Health and Welfare Committee  
Testimonial on lead exposure in California

NIOSH  
Title: Hazard Surveillance  
Location: Cincinnati, OH

International Association of Fire  
Title: Firefighters Exposure to Diesel Exhaust  
Location: Washington, D.C.

Polaroid Corporation  
Title: Risk Assessment and Toxic Chemicals  
Location: Waltham, MA

1990 Los Angeles Printmaking Society, Cal Print '90 Symposium  
Title: The Toxic Environment of Printmakers

UC San Francisco School of Medicine, Occupational & Environmental Medicine Grand Rounds: Occupational Lead Exposure Monitoring

UCLA Extension  
Workshop: Covering the Environment: A Workshop for Journalists,  
Epidemiology/Toxicology/Risk Assessment: Basic Information for Journalists

UCLA Center for Labor research and Education, Conference for Swedish Parliament Delegation

Title: Current Issues on Occupational Health in the U.S  
UCLA Environmental Health Science and Environmental Science & Engineering Title:  
Policy Implications of Lead Toxicity

1990 UCLA Health Careers Opportunity Program, UCLA Statewide Public Health Conference,  
"The Influence of Environmental factors on the Incidence of Cancer in Minority Communities"

California Occupational Health Program, Department of Health Services, WOMA and UCLA COEH's Western Occupational Health Conference  
Title: Preventing Occupational Lead Toxicity

UC Irvine Extension  
Title: Legal, Scientific and Regulatory Implications of California's Risk Assessment Program for Control of Toxic Air Contaminants

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USC Occupational Medicine Residency Program  
Title: The Mechanism of Dinitrotoluene and Toluenediamine Carcinogenicity as  
Determined by DNA Adduct Studies

- 1991 State of California Little Hoover Commission.  
Testifying on the need for a California Environmental Protection Agency
- 1992 Jonsson Comprehensive Cancer Center, Division of Cancer Control  
Title: Overview of Cancer Control Research: Environmental and Occupational Prevention  
of Carcinogen Exposure
- Cancer Education Seminar, UCLA School of Public Health  
Implementation of Proposition 65: Process and outcome of public knowledge about  
industrial carcinogens
- Los Angeles County Medical Association  
Title: Studies of Arsenic carcinogenicity
- Hispanas Organized for Political Equality (HOPE)  
Symposium: Economic Development – Economic Equality
- UCLA Center for Labor Research and Education  
Opening address: How to Prevent Cumulative Trauma Disorders on the Job  
Air Toxics Workshop, Center for Clean Technology, UCLA.  
Chaired session and gave opening speech
- 1993 UCLA Geography Colloquium Series  
Lecture to faculty: Current Issues in Environmental Risk Assessment, Arsenic and Public  
Health Issues  
Location: UCLA, Los Angeles, CA
- American Industrial Hygiene Conference and Exposition.  
Chaired roundtable meeting: Low Levels Effects of Lead, Epidemiologic Evidence and  
Solutions
- 1993 Institute for Occupational Safety and Health, Republic of China (Taiwan's equivalent  
organization to U.S. OSHA/NIOSH).  
Lecture to government scientists and professionals
- 1996 Preventive Medicine Students  
Title: Toxicology  
Location: UCLA, Los Angeles, CA
- Senate Hearing  
Presented testimony on air pollution in Southern California
- 1997 American Industrial Hygiene Association Dinner Meeting.  
Opening lecture: The Center for Occupational and Environmental Health, & research  
on chromium

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City of Telluride, CO  
Speaker and lecturer "Out-Loud Program"  
Location: Telluride, CO

- 1997 Senate Committee Oversight Hearing on Environmental Quality  
Presented testimony on the activities of the Office of Environmental Health Hazard Assessment (OEHHA)
- 1997 Proposition 65 Conference  
Title: Prop 65 Science: Legacy and Challenge for the Second Decade
- 1998 Arsenic Conference  
Title: Arsenic Induced Carcinogenesis  
Location: San Diego, CA
- 1998 Southern California American Industrial Hygiene Association  
Title: Diesel Exhaust  
Location: Downey, CA
- 1998 MTBE Meeting  
Title: Presentation of Governor's Report  
Location: Sacramento, CA
- 1999 Angeles County Public Health Commission  
Location: Los Angeles, CA
- 1999 U.S. EPA and Public Health Institute, MTBE Blue Ribbon Panel Workgroup Meeting  
Title: Health Effects of MTBE  
Location: Sacramento, CA
- 1999 Public Health Institute Prop 65 Research Symposium  
Title: Occupational and Consumer Exposure to Hexavalent Chromium in Spray Paints/Primers  
Location: UC Berkeley, Berkeley CA
- 1999 AIHA - Northern California Section  
Title: Toxicological Effects of Diesel Exhaust  
Location: San Francisco, CA
- 1999 Southern California Society for Risk Analysis  
Title: Risk Assessment and Toxicology Issues for California in the New Millennium  
Location: UCLA, Los Angeles, CA
- 1999 Third Colloquium on Particulate Matter and Human Health  
Association for Aerosol Research, Florida Light and Power, UC Irvine  
COEH, NYU School of Medicine Institute of Environmental Medicine  
Title: UCLA's Particulate Matter Center  
Location: Durham, NC

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- 1999 California Air Resources Board Air Pollution Health Impacts Workshop  
Title: Research Needs on Diesel Exhaust  
Location: Sacramento, CA
- 1999 Corning's Diesel Workshop  
Title: Health Effects of Diesel Exhaust  
Location: Corning, NY
- 1999 American Lung Association/NIEHS/CDC Urban Air Pollution and Health Inequities Workshop  
Title: Monitoring Air Pollution Concentrations and Exposures  
Location: Washington, D.C.
- 1999 Claremont McKenna College Lecture Series  
Sponsor: Claremont McKenna College  
Title: Current Environmental Issues in Public Health  
Location: Claremont, CA
- 2000 Southern California Section AIHA  
Title: Southern California Center for Airborne Particulate Matter  
Location: UCLA, Los Angeles, CA
- 2000 SCAQMD Diesel Emissions as a Toxic Air Contaminant-Special Information Session  
Title: Moderator, Health Impact Perspectives  
Location: Diamond Bar, CA
- 2000 COEH Spring Symposium  
Title: Particulate Pollution: Research at the Southern COEH  
Location: Berkeley, CA
- 2000 ITREOH Networking Meeting  
Title: Recent Achievements and Perspectives of the ITREOH Program: Focus on the Americas  
Location: Bethesda, MA
- 2000 Air Pollution and Health Conference: Christchurch School of Medicine  
Title: Air Pollution in Southern California: Seeking Answers to Critical Public Health Questions  
Location: Christchurch, New Zealand
- 2000 10<sup>th</sup> Annual Conference of the International Society of Exposure Analysis  
Title: Particulate Matter: Exposure Research  
Location: Monterey Bay Peninsula, CA
- 2001 The Association of California Water Agencies Spring Conference  
Title: Chromium VI: Good Science? Or Just Good Politics?  
Location: Lake Tahoe, CA
- 2001 American Bar Association Annual Meeting  
Title: Chicago Conspiracy Trial

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Location: Chicago, IL

- 2001 California Air Tech 2001: International Conference on Urban Air Pollution Technologies and Solutions  
Title: The Price of Air Pollution  
Location: Anaheim, CA
- 2001 NIEHS/UCLA LOSH/SCEHSC Town Hall Meeting  
Title: Health Effects of Particles in Air Pollution; the Toxicity of Metals (Arsenic and Chromium)  
Location: Inglewood, CA
- 2002 NIEHS/NIH  
Title: Carcinogenicity of Chromium VI: An Overview  
Location: Glendale, CA
- 2002 South Coast Air Quality Management District  
Title: Implementing the Clean Air Act at the State and Regional Levels  
Location: Diamond Bar, CA
- 2002 A&WMA West Coast Section Annual Meeting  
Title: Toxicity of Diesel Exhaust  
Location: Glendale, CA
- 2002 NRC Committee on Research Priorities of Airborne Particulate Matter  
Title: SCPCS  
Location: Seattle, WA
- 2002 International Conference on Arsenic Exposure and Health Effects  
Title: Arsenic Induced Carcinogenesis: Perturbations in Global and HA RAS Methylation Patterns in Methyl-Deficient C57BL/6 Mice: Results of a Chronic Animal Bioassay  
Location: San Diego, CA
- 2002 California Industrial Hygiene Council 12<sup>th</sup> Annual Conference  
Title: Defining the Problem of Ultrafine Particles  
Location: San Francisco, CA
- 2003 Oregon Environmental Council's Healthy Environment Forum  
Title: Keynote Speaker: Toxics in the Air: How Concerned Should We Be?  
Location: Portland, OR
- 2003 Haagen-Smit Symposium  
Title: Are There Particle Components or Sources That Are More or Less Toxic Where Control Efforts Should Be Emphasized: Particle Size  
Location: UCLA Lake Arrowhead Conference Center, CA
- 2003 Environmental Challenges Facing the Inland Empire  
Title: Air Quality  
Location: Riverside, CA

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- 2003 ARB Chairman's Air Pollution Seminar Series  
Title: Research Findings on Particulate Matter Related Toxicity from the Southern California Particle Center and Supersite  
Location: Sacramento, CA
- 2003 EPA Region 9 Star Grants Seminar  
Title: Recent Progress in Particle Research at the Southern California Particle Center and Supersite: The Role of Ultrafine Particles and Traffic.  
Location: San Francisco, CA
- 2003 American Chemical Society, Western Region Meeting  
Title: Science in the Cinema; the Science Behind Erin Brokovich  
Location: Long Beach, CA
- 2003 UCLA-Labor and Occupational Safety and Health Anniversary Forum  
Title: Opening Introduction and Welcome  
Location: UCLA, Los Angeles
- 2003 ITREOH Network Meeting  
Title: Occupational and Environmental Health Training in Mexico  
Location: Washington, D.C.
- 2004 Presentation, California Office of Environmental Health Hazard Assessment meeting, *Research on Ultrafine Particles in the Southern California Particle Center and Supersite*, Sacramento, CA
- 2004 Presentation, UCLA School of Law Environmental Health panel, *Risks Associated with LNG Use*, Los Angeles, CA
- 2004 Presentation at the Particulate Matter Research Centers Program: *Ambient Particles, Their Toxic Components, Sources and How They Impact Health*, Washington, D.C
- 2005 *Mobile Source Emissions and Ultrafine Particles*. Presentation at "Growing Pains: A Town Meeting on Health and Community Impacts of Ports and Goods Movement." Conference sponsored by Southern California Environmental Health Sciences Center.
- 2005 Presentation at the Goods Movement Task Force Meeting, *Health Effects of Ultrafine Particles*, Los Angeles, CA
- 2005 Presentation at the Fogarty Meeting in Mexico, *Ambient Particles, their Toxic Components, Sources and how They Impact Health*, Mexico City, Mexico
- 2005 Presentation at the Ramazzini Conference, *The Role of Oxidative Stress in the Mechanism of Particulate Matter Toxicity*, Bologna, Italy
- 2005 Interview with Dateline (Susan Liebowitz), *California Declares Secondhand Smoke a Pollutant*, Los Angeles, CA

- 2005 Testimony/Presentation to the Assembly Transportation Committee, *The Human Side of Goods Movement: Responding to the Health Effects; Focusing in on Health Studies*, Los Angeles, CA.
- 2005 Presentation at the COEH Statewide Symposium, *Occupational and Environmental Health in the Developing World: Making a Difference*, Berkeley, CA
- 2005 Presentation at the EPA Particulate Centers Kick-off Meeting, *The Southern California Particle Center*, Washington D.C.
- 2006 Testimony at the Santa Monica Airport Panel meeting, Los Angeles, CA.
- 2006 Presentation at the AQMD Ultrafine Particles conference, *Ultrafine Particle Health Effects*, Los Angeles, CA
- 2006 Interview with Randy Paige, CBS, *Ultrafine Particles*, Los Angeles, CA
- 2006 *Southern California Particle Center Studies on Ultrafine Particles*. Presentation to the Southern California Association of Governments' Goods Movement Task Force.
- 2006 Testimony at the Goods Movement Task Force meeting, *Health Effects of Ultrafine Particles*, Los Angeles, CA.
- 2006 Interview with NPR: Living on Earth (Ingrid Lobet), *Health Effects of Perchloroethylene*, Los Angeles, CA.
- 2006 *Ultrafine Particles: Exposure, Toxicity and Health Studies*. Presentation to the Board of Harbor Commissioners (at their invitation), Port of Los Angeles.
- 2007 *Research Progress of the Southern California Particle Center: Health and Mechanisms Studies*. Presentation to the Columbia NIEHS External Advisory Committee. New York, NY.
- 2007 Interview with *Fresno Bee*, Health Effects of Ultrafine Particles
- 2007 Interview with NPR:
- 2007 *Nanotechnology-how to define risks and control them*. Presentation at the CNS-UCSB Nanotechnology Conference, Santa Barbara, CA.
- 2007 *Health Effects of Particulate Matter*. Presentation at the Impact Project Moving Forward Conference. Carson, CA.
- 2008 *Nanotechnology-how to define risks and control them*. Presentation at the CNSI , The Future of Nanotechnology: A Legislative Summit, Los Angeles, CA.
- 2008 *Occupational and Environmental Health Training Progress*. Presentation at the Fogarty ITREOH Conference, Bethesda, MD.

Program Director/Principal Investigator:  
Froines, John R.

- 2008 *The State of Biological Exposure Assessment*. Presentation at the COEH/SCEHSC Workshop on New Directions and Advances in Biological and Chemical Exposure Assessment for Epidemiologic and Risk Characterization, Los Angeles, CA.
- 2009 *Source Characterization and Health Effects of PM2.5*. Presentation to the Hong Kong Environmental Protection Dept, University of Hong Kong and the Hong Kong University Dept of Science & Technology (3 separate presentations). Hong Kong.
- 2009 *Nanotechnology-how to define risks and control them*. Presentation to Assemblyman Feuer's Nano-Legislation Working Group Meeting, Sacramento, CA
- 2009 *Nanotechnology-how to define risks and control them*. Presentation at the UCLA Working Conference on Nanotech Regulatory Policy. Los Angeles, CA.
- 2010 *Five Years of Progress in Particulate Matter Research*. Webinar, US Environmental Protection Agency
- 2011 *UCLA-Fogarty Training Program in Occupational and Environmental Health*. UC MEXUS Symposium, Riverside, CA
- 2011 *Air pollution-related health effects*. Radio Interview with "AQMD - On the Air". Diamond Bar, CA
- 2011 *Research findings on particulate air pollution from the Southern California Particle Center*. AQMD – Senior Clean Air Fair. Northridge, CA
- 2011 *Research findings on particulate air pollution from the Southern California Particle Center*. Presentation at the Bay Area Air Quality Management District. San Francisco, CA

## **X. PROFESSIONAL AFFILIATIONS**

Member, Collegium Ramazzini  
Member, Association for the Advancement of Science  
Member, American Chemical Society  
Member, American Conference of Governmental Industrial Hygienists  
Member, International Society of Exposure Analysis  
Member, American Industrial Hygiene Association

## **IX. TESTIMONY AT CONGRESSIONAL AND STATE HEARINGS**

<u>Date</u>	<u>Committee</u>	<u>Subject</u>
1979	Subcommittee on Investigations/House Committee on Post Office and Civil Service	Possible Occupational Health Problems at Hill Air Force Base
	Subcommittee on Labor Standards/House Committee on Education and Labor	Exposure of Workers to Neurotoxic Chemicals

1980	Senate Committee on Veterans' Affairs	Phenoxy Herbicides (Agent Orange) and Dioxins
	Subcommittee on Energy Nuclear Proliferation, Federal Services; Senate Committee on Governmental Affairs	NIOSH Investigations at a Nuclear Enrichment Plant
	Subcommittee on Health and Safety	NIOSH Health Hazard Alerts
1981	Subcommittee on Labor Standards; House Committee on Education and Labor	Department of Labor Testimony on Cotton Dust
1983	State of California, Senate Finance Committee	California OSHA Budget
1985	Platform Committee of the State of California Democratic Party	Toxic Substance Control in California
1989	State of California Senate Health and Welfare Committee	Lead Exposure in California
1991	State of California Little Hoover Commission	Need for Cal-EPA
1996	State of California Senate Committee on Environmental Quality	Activities of OEHHA
	State of California State Senate	Air Pollution in Southern California
2000	Joint Hearing of the Senate Committee on Health and Human Services, Senate Committee on Natural Resources and Wildlife, and Assembly Committee on Environmental Safety and Toxic Materials	Chromium VI
2010	Senate Food and Agriculture Committee	Methyl Iodide
2011	Joint Oversight Hearing of the Environmental Safety and Toxic Materials and Health Committees of the California State Assembly	Methyl Iodide

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## **XV. RESEARCH AND TRAINING GRANTS/CONTRACTS RECEIVED**

<u>Agency &amp; Number Title PI or co-PI</u>	<u>Duration of Grant</u>	<u>Direct costs</u>
UC Office of the President, Health Affairs Center for Occupational and Environmental Health (Director)	Ongoing (Permanent funding)	\$1,300,000
South Coast Air Quality Management District Toxicologic Pathways of Rail Yard Emission Exposure on Non-Cancer Health Impacts	2009-2010	\$280,872
NIEHS	04/04/01 – 3/31/10	\$1,269,693

Program Director/Principal Investigator:  
Froines, John R.

Exposure Assessment and Analytical Chemistry  
Core of Southern California Environmental Health  
Sciences Center  
H21993 (Co-PI)

California Air Resources Board Physicochemical and toxicological assessment of the semi-volatile and non-volatile fractions of PM from heavy and light-duty vehicles operating with and without emissions control technology. Investigator (Sioutas – PI)	01/01/06-12/31/09	\$254,545
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US EPA Southern California Particle Center RD-83241301-0 (PI)	10/1/99-9/30/11	\$18,365,579
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NIH/Fogarty International Center UCLA-Mexico/Latin American Training & Teaching Program D43 TW00623 (PI) – refunded	09/30/95 – 04/30/10	\$1,939,095
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California Air Resources Board Monitoring and Modeling of Ultrafine Particles and Black Carbon at the Los Angeles International Airport 04-325 (PI)	06/01/05-11/14/06	\$113,986
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California Air Resources Board Determination of the Reactive Oxygen Species Activity in PM and Enhanced Exposure Assessment for the NIH/NIEHS study. Investigator (Delfino-PI)	06/28/04-5/31/08	\$119,779
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UC Office of the President Pacific Rim Research Program 03T-PRRP-4-13 (PI)	7/01/03-06/30/07	\$18,000
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NIOSH UCLA Education and Research Center T42CCT924019 Investigator (Hinds – PI)(renewed)	07/1/03-06/30/07	\$67,629
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Centers for Disease Control Center of Excellence for Environmental Public Health Tracking U50/CCU922409-01 (Subcontract PI)	09/30/02 – 09/29/05	\$373,323
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NIH/NIEHS Molecular Epidemiology and Gene-Environment Interaction R21-ES011667 (Zhang-PI)	04/01/02 – 03/31/05	\$450,000
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UC Los Alamos National Laboratory An Automated System for Task-Based Evaluation of Size Distribution of Beryllium Aerosol at the Los Alamos Beryllium Technology Facility	02/19/99 – 06/30/07	\$678,000
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STB-UC: 9950 (PI)

State of California Air Resources Board Development of an Exposure Facility to Conduct Inhalation Studies to Ambient Aerosols 98-316 (PI)	05/30/99 – 12/31/04	\$2,087,816
UC Mexus Evaluation of In Vitro Biological Effects Induced by Particulate Matter from Mexico City and Los Angeles HM CN 03-51 (PI)	07/01/03 – 12/31/04	\$25,000
US Environmental Protection Agency Southern California Particulate Matter and Supersite CR-82805901 (PI)	01/15/00 – 12/31/04	\$2,628,386
Pacific Rim Research Program, UC Office of the President Environmental Pollution, Genetic Susceptibility Genes, and Risk of Lung Cancer Among Chinese Female Non-Smokers in Taiyuan, China 03TPRRP-4-13(PI)	07/01/95 – 06/30/02	\$18,000
UC Toxic Substances Research Training Quantification of Exposure to Organophosphate Pesticides in a Mexican Agricultural Community (PI)	07/01/99 – 06/30/01	\$40,000
State of California Air Resources Board Development of an Exposure Facility to Conduct Inhalation Studies to Ambient Aerosols 98-316 (PI)	05/30/99 – 12/31/04	\$2,087,816
UC Toxic Substance Research & Teaching Pollution Prevention Education Research Center (PPEREC) (PI)	07/01/95 – 06/30/00	\$45,000
NIEHS Training Cooperative Agreement, Worker Health & Safety (Marianne Brown/John Froines-Co-PIs)	09/30/95 – 08/31/00	\$4,500,000
NIH/Fogarty International Center Collaborative Training and Research Project 3 D43 TW00623 (PI)	09/30/95 – 09/29/00	\$590,660
NIOSH/Education Resource Center UCLA Industrial Hygiene Training Program H15885 (William Hinds – PI)	07/01/96 – 06/30/00	\$121,985
NIOSH/Education Resource Center UCLA Hazardous Substance Academic Training H15885 (William Hinds – PI)	07/01/96 – 06/30/00	\$55,950

Program Director/Principal Investigator:  
Froines, John R.

NIOSH Worker Exposure Assessment and Hazard Medical Surveillance CCR912034 (PI)	09/30/95 – 09/29/99	\$1,137,335
Public Health Trust Occupational & Consumer Exposure to Hexavalent Chromium in Spray Paints/Primers 543A-8802-G1298 (PI)	03/01/97 – 11/30/99	\$131,895
CERR/UC Toxic Substances Research & Teaching Program Arsenic Project (PI)	07/01/97 – 06/30/99	\$36,000
UC Mexus-Conacyt/UC Riverside Characterization of Pesticide Use & Exposure in a Mexican Agricultural Community Using a Geographic Information System (PI)	07/01/98 – 06/30/99	\$9,039
UC Toxic Substances Research & Teaching Program An Evaluation of the Peer-Reviewed Literature on Human health, Including Asthma and Environmental Effects of MTBE (PI)	01/01/98 – 10/31/98	\$99,000
Southern California Environmental Health Center Arsenic Induced Carcinogenesis: A Murine model for Induction of Cancer in Methyl-deficient C57B/6 mice (PI)	08/01/97 – 03/31/98	\$5,000
NIEHS – Citizens for a Better Environment To establish community-based strategy for reducing worker and community exposures to environmental pollutants (PI)	10/01/94 – 09/30/96	\$50,795
STCA/OEHHA California Environmental Protection Agency Literature search for Hot Spot Chemicals from the Office of Environmental Health Hazard Assessment (Co-PI)	11/1/94 – 9/30/96	\$50,795
UC Toxic Substance Research & Training Design a model for risk evaluation and pollution prevention decision-making in the workplace. Study group: toxic cleaning products for janitorial service work. (Co-PI)	07/01/94 – 06/30/96	\$30,000

Program Director/Principal Investigator:  
 Froines, John R.

TSRTP To develop courses and research on pollution prevention (Co-PI)	07/01/92 – 06/30/96	\$260,000
Center for Disease Control/NIOSH To study aerosol size distribution of chromium in spray painting	10/01/92 – 03/31/96	\$90,918
U.S.-Mexico Foundation To develop an ergonomic hazard evaluation tool to be used by the maquiladora industry for the identification of operations that carry high risk for workers to develop cumulative trauma disorders (CTDs). (Co-PI)	03/01/94 – 02/28/96	\$50,000
Western Consortium for the Health Professionals To assess the risks for chemicals in reclaimed water from the San Diego advanced treatment plant and the current source of potable water (PI)	04/01/86 – 08/15/95	\$1,480,000
STCA/Office of Environmental Health Hazard Assessment A literature review of non-carcinogenic toxicologic endpoints for 7 chemicals (Co-PI)	04/01/94 – 01/31/95	\$100,450
California Public Health Foundation Epidemiologic study to determine possible adverse health effects on Rockwell/Rocketdyne Workers from Exposure to Radioactive and Hazardous Substances (Co-PI)	10/01/92 – 09/30/95	\$500,000
PHS/NIEHS To provide health and safety training for hazardous waste workers. The program involves three other UC campuses and Arizona State University (Co-PI)	09/01/92 – 08/31/95	\$2,612,556
CAL/EPA To perform a library review of the non-carcinogenic toxicological endpoints for seven chemicals	02/01/93 – 01/31/94	\$100,418
UC Mexus Develop collaboration in training and research in industrial hygiene between UCLA School of Public Health and the National Institute of Public health in Mexico (PI)	07/01/92 – 06/30/93	\$7,869

American Oceans Campaign

Program Director/Principal Investigator:  
 Froines, John R.

A pilot study of the toxic chemical release into the Santa Monica Bay (PI)	11/01/91 – 03/12/93	\$50,000
TSRTP To develop a courses and research on pollution prevention (Co-PI)	07/01/92 – 06/30/93	\$120,000
State Compensation Insurance Fund To update the OSHA Integrated Management Information System (IMIS) and to develop a list of high risk industries using IMIS and other data. (PI)	12/01/91 – 08/31/92	\$26,000
Toxic Substances Research and Training To develop a course on toxics reduction: science, engineering and policy issues (Co-PI)	07/01/91 – 06/30/92	\$28,000
General Accounting Office To study worker health and safety conditions in US-owned auto parts maquiladoras (PI)	07/01/92 – 12/31/92	\$20,000
National Institute of Environmental Health Sciences Superfund hazardous waste workers training grant (Co-PI)	09/87 – 09/92; 09/90 – 09/92	\$5,000,000
Western Consortium for Public Health San Diego Wastewater Reclamation Health Effects Study in San Pasqual (PI)	11/1/91 – 10/31/92	\$85,951
Western Consortium for Public Health To develop research collaboration in Indonesia (Co-PI)	01/04/91 – 03/31/91	\$5,000
Thermal Insulation Manufacturers Association To evaluate the feasibility of studying health effects of fibrous glass in the aircraft manufacturing and filter paper manufacturing industries (PI)	10/11/89 – 06/30/91	\$79,827
National Science Foundation Use of biological markers in risk assessment (PI)	05/01/87 – 04/30/90	\$80,672
Toxic Substances Research & Teaching Program To investigate the identity, analytical chemistry, fate and transport, and toxicology of non-conventional pollutants found in raw and treated groundwater (PI)	07/01/98 – 06/30/89	\$80,000

Program Director/Principal Investigator:  
 Froines, John R.

National Institute for Occupational Safety and Health, Educational Resource Center Training program to train professionals and research industrial hygienists at the MS and PhD levels (Co-PI)	07/01/84 – 06/30/89	\$572,309
California Department of Health Services To examine the etiologic factors associated with occupational mortality in California (PI)	11/86 – 06/30/88	\$25,000
California Department of Health Services To assess the nature of occupational exposures to toxic substances and to develop priorities for hazard surveillance research (PI)	07/01/86 – 06/30/88	\$50,000
National Institutes for Health To identify etiologic agents in the carcinogenicity of methapyrilene and other antihistamines	12/01/84 – 11/30/87	\$20,596
Biomedical Research Support Grant To study the mechanism of the neurotoxicity of dimethylaminoproprionitrile and other aminonitriles (PI)	03/01/86 – 02/28/87	\$2,500
Environmental Protection Agency To develop acceptable ambient air quality levels for a number of potentially toxic air contaminants	06/01/86 – 12/01/86	\$78,000
Environmental Protection Agency To provide a context for environmental risk finding which the Integrated Environmental Management Project is developing in Santa Clara county (PI)	07/01/85 – 02/28/86	\$19,238
Biomedical Research Support Grant To identify the neurotoxic agent responsible for the neurologic disease in workers occupational exposed to the chemical BMMH (PI)	02/01/85 – 01/31/86	\$1,000
National Institute for Occupational Safety & Health To study the impact of a variety of size distributions of lead aerosol in predicted distributions of lead levels in workers exposed to airborne lead (PI)	11/01/84 – 10/31/86	\$29,144
National Cancer Institute To examine the effectiveness of the International Chemical Worker's Union Cancer Control Education and Evaluation Program (PI)	01/01/83 – 09/30/86	\$297,077

Program Director/Principal Investigator:  
Froines, John R.

Academic Senate Research Grant To gather data on size distribution of airborne lead particulates in industrial settings (PI)	07/01/83 – 06/30-84	\$2,000
Biomedical Support Research Grant To evaluate exposure to carcinogens encountered by firefighters during performance of duties (PI)	04/01/83 – 03/31/84	\$3,000
California Dept. of Health Services To develop recommendations for targeting occupational health programs in Southern California and to conduct model training (PI)	12/01/82 – 06/30/84	\$45,000
American Cancer Society California Institute for Cancer Research To evaluate exposure of cosmetologists to workplace carcinogens (PI)	12/01/82 – 11/30/83	\$17,675
Academic Senate Research Committee To evaluate particle size distribution of lead in industry (PI)	12/14/81 – 06/30/82	\$703
NIEHS Collaborative training program in environmental sciences, epidemiology and statistics (Training Grant)	07/01/78 – 06/30/85	\$92,000

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**For New and Renewal Applications (PHS 398) – DO NOT SUBMIT UNLESS REQUESTED  
For Non-competing Progress Reports (PHS 2590) – Submit only Active Support for Key  
Personnel**

**PHS 398/2590 OTHER SUPPORT**

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Provide active support for all key personnel. **Other Support includes all financial resources, whether Federal, non-Federal, commercial or institutional, available in direct support of an individual's research endeavors, including but not limited to research grants, cooperative agreements, contracts, and/or institutional awards.** Training awards, prizes, or gifts do not need to be included.

There is no "form page" for other support. Information on other support should be provided in the *format* shown below, using continuation pages as necessary. **Include the principal investigator's name at the top and number consecutively with the rest of the application.** The sample below is intended to provide guidance regarding the type and extent of information requested.

For instructions and information pertaining to the use of and policy for other support, see Other Support in the PHS 398 Part III, Policies, Assurances, Definitions, and Other Information.

Note effort devoted to projects must now be measured using person months. Indicate calendar, academic, and/or summer months associated with each project.

**Format**

**NAME OF INDIVIDUAL**  
**ACTIVE/PENDING**

Project Number (Principal Investigator) Source Title of Project (or Subproject)	Dates of Approved/Proposed Project Annual Direct Costs	Person Months (Cal/Academic/ Summer)
The major goals of this project are...		

OVERLAP (summarized for each individual)

**Samples**

**FROINES, J.R.**

ACTIVE

08-C0129 Froines, J. (PI) 3/20/09-6/30/10 .37 cal  
Cal Department of Pesticide Regulation \$72,164  
Methyl Iodide Review

The major goal of this project is to evaluate the review conducted by the Department of Pesticide Regulation on Methyl Iodide.

20082157 Froines, J. (PI) 6/1/09-5/31/11 2.40 cal  
California Endowment \$323,820

Transportation Impacts on Communities in the Los Angeles Basin

The major goal of this project is raise awareness in the Boyle Heights community about the regional health impacts from the Goods Movement.

040624 Froines (PI) 12/1/03-6/30/10 .50 cal  
South Coast Air Quality Management District \$953,599 (total)  
Asthma and Outdoor Air Quality Consortium

The major goal of this project is to create a Consortium to address the underlying basis and causation of asthma associated with air pollutants.

06-304 Froines (PI) 11/1/06-5/29/10 0.36 cal  
Cal Air Resources Board \$30,000

Interagency agreement to support the Scientific Panel Chair

The major goal of this project is to support the ARB Scientific Review Panel Chair.

117181 Sioutas (PI) 04/01/06-03/31/10 .72 cal  
California Air Resources Board \$207,150

Physicochemical and toxicological assessment of the semi-volatile and non-volatile fractions of PM from heavy and light-duty vehicles operating with and without emissions control technology.

RD-832413-010 Froines (PI) 10/01/05 – 09/30/10 2.40 cal  
U.S. Environmental Protection Agency \$1,569,357

Southern California Particle Center (SCPC)

The overall objective of the SCPC is to bring together outstanding scientists to conduct high priority research to elucidate the underlying basis for the health effects associated with exposure to ambient particulate matter (PM).

D43 TW00623 Froines (PI) 05/1/07- 2/19/12 0.6 cal  
NIH/Fogarty International Center \$80,787

UCLA-Mexico Collaborative Training and Research Program

Program Director/Principal Investigator:  
Froines, John R.

The major goals of this project are to establish a collaborative doctoral training effort between UCLA and Mexican investigators in occupational and environmental health.

D43 TW00623-13S1 Froines (PI) 09/01/09- 8/31/11 0.6 cal  
NIH/Fogarty International Center \$43,200  
UCLA-Mexico Collaborative Training and Research Program, supplement  
The major goals of this project are to develop two distance education courses, Chemical Policy and Risk Assessment and Biological Exposure Assessment.

RD-83374301 Froines (PI) 11/1/08-10/31/10 0.12 cal  
Cal Air Resources Board \$92,822  
Sources, Composition, Variability and Toxicological Characteristics of Coarse (PM10-2.5) Particles in Southern California

1RC1ES018121-01 Wallace, S. (PI) 9/28/09-7/31/11 1.2 cal  
NIH \$500,000  
Assessment of Local Environmental Risk Training (ALERT)  
The goal of this project is to utilize a community-based education model to foster trust and collaboration between environmental health researchers and community-based organizations (CBOs)

1 T42 OH008412-06 (Froines) 7/1/09-6/30/012 1.2 cal  
NIOSH \$1,270,000  
UCLA Southern California Education Research Center

The major goal of this project is to train researchers and professionals in the field of occupational health at the masters and doctoral levels.

PENDING

Pending Froines (PI) 4/1/09-3/31/11  
.75 cal  
Southern California Air Quality Management District \$280,872  
Toxicologic Pathways of Rail Yard Emission Exposure on Non-Cancer Health  
Impacts

The major goal of this project is to chemically and biologically characterize the air pollutants to which communities adjacent to rail yards are exposed and educate local communities about the potential health risks from these facilities.

Pending Froines (PI) 7/1/09-6/30/10  
0.12 cal  
TSRTP \$19,210

California's Toxics Information Clearinghouse: Implementation Strategies and Scientific Uncertainties

The major goal of this project is to organize two workshops to bring together experts in chemical assessment and regulation to discuss the science of toxicity testing and to provide guidance to OEHHA on its mandate under SB509.

**XVI. COURSES TAUGHT**

<u>Term</u>	<u>Course No.</u>	<u>Title of Course</u>
W86	PH 156B	Introduction to Occupational Safety and Health
S86	PH 157F PH 253A	ID & MSR – Gases and Vapors Environmental Toxicology
F86	PH 156A	Introduction to Occupational Safety and Health
W87	PH 157G	Health Hazards in Industrial Processes
S87	PH 253A PH 257F	Environmental Toxicology ID & MSr – Gases and Vapors
F87	PH 156	Introduction to Occupational Safety and Health
W88	PH 253A PH 256	Environmental Toxicology Introduction to Occupational Health and Safety
S88	PH 157G	Health Hazards of Industrial Processes
F88	PH 156	Introduction to Occupational Safety and Health

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W89	PH 157G PH 256	Health Hazards of Industrial Hazards Introduction to Occupational Health and Safety
S89	PH 253A PH 257F	Environmental Toxicology ID & MSR – Gases and Vapors
F89	PH 156	Introduction to Occupational Safety and Health
W90	PH 157G PH 256	Health Hazards of Industrial Processes Introduction to Occupational Safety and Health
S90	PH 253A	Environmental Toxicology
F90	EHS 156	Introduction to Occupational Safety and Health
W91	EHS 157G EHS 256	Health Hazards and Industrial Processes Occupational Disease
S91	EHS 253A	Environmental Toxicology
F91	EHS 250	Introduction to Occupational Safety and Health
W92	EHS M249 EHS 251 EHS 254	Toxics Reduction: Science, Engineering and Policy Occupational Disease Health Hazards of Industrial Processes
S92	EHS 240	Environmental Toxicology
F92	EHS 250	Introduction to Occupational Safety and Health
W93	EHS 240 EHS M249 EHS 251	Environmental Toxicology Toxics Reduction: Science, Engineering and Policy Environmental Disease
F93	EHS 250 EHS M411	Introduction to Occupational Safety and Health ESE Seminar
W94	EHS M249	Toxics Reduction: Science, Engineering and Policy
F94	EHS 250	Introduction to Occupational Safety and Health
S95	EHS 257	Critical Review of Scientific Basis of Occupational Standards
F95	EHS 250	Introduction to Occupational Safety and Health
W96	EHS M249	Toxics Reduction: Science, Engineering and Policy

F96	EHS 250	Introduction to Occupational Safety and Health
W96	EHS M249	Toxics Reduction: Science, Engineering and Policy
W97	EHS M249	Toxics Reduction: Science, Engineering and Policy
S97	EHS M239	Pollution Prevention Seminar
F97	EHS 250	Introduction to Occupational Safety and Health
S98	EHS M239 EHS 254	Pollution Prevention Seminar Health Hazards of Industrial Processes
F98	EHS 200A	Foundations of Environmental Health Sciences
W99	EHS 200B EHS 200H EHS 200I EHS 200N EHS M239	Foundations of Environmental Health Sciences Exposure Assessment Occupational Health Risk Assessment Pollution Prevention Seminar
F99	EHS 200A	Foundations of Environmental Health Sciences
W00	EHS 200B	Foundations of Environmental Health Sciences
F00	EHS 200A	Foundations of Environmental Health Sciences
F01	EHS 200A	Foundations of Environmental Health Sciences
W02	PHARM 100A	Drugs, Mechanisms, Uses and Misuses
F02	EHS 200A EHS 257	Foundations of Environmental Health Sciences Risk Assessment and Standards
W03	PHARM 110A	Drugs, Mechanisms, Uses and Misuses
F03 S03	EHS 200A EHS 257	Foundations of Environmental Health Sciences Risk Assessment and Standards
F04 S04	EHS 200A EHS 257	Foundations of Environmental Health Sciences Risk Assessment and Standards
F05 S05	EHS 200A EHS 257	Foundations of Environmental Health Sciences Risk Assessment and Standards

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F06	EHS 200A	Foundations of Environmental Health Sciences
F07	EHS 200A	Foundations of Environmental Health Sciences
F08	EHS 200A	Foundations of Environmental Health Sciences
S09	EHS 257	Risk Assessment and Standards
F09	EHS 200A	Foundations of Environmental Health Sciences
S10	EHS 257	Risk Assessment and Standards
F10	EHS 200A	Foundations of Environmental Health Sciences