

Resume

G. Fred Lee, Ph.D., P.E., D.E.E., President

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Summary of G. Fred Lee's Background/Activities

Dr. G. Fred Lee is President of G. Fred Lee and Associates, which consists of Drs. G. Fred Lee and Anne Jones-Lee as the principals in the firm. They specialize in addressing advanced technical aspects of water supply water quality, water and wastewater treatment, water pollution control, and solid and hazardous waste impact evaluation and management. Dr. Lee holds a B.A. degree from San Jose State College. After obtaining his Master of Science in Public Health degree from the University of North Carolina in 1957 focusing on water quality and a PhD degree from Harvard University in 1960 in Environmental Engineering, Dr. Lee taught university graduate-level environmental engineering and environmental science courses for 30 years at several US universities. During this time, he conducted over \$5 million of research and published over 460 papers and reports. Dr. G. F. Lee was active as a part-time consultant during his university teaching and research career. Dr. Lee has been a full-time consultant since 1989. Since then he has developed another 598 papers and reports. One of his areas of specialization is the development of technically valid, water quality investigations and cost-effective pollutant control programs to protect the designated beneficial uses of waterbodies without significant unnecessary expenditures for constituent control. Drs. G. Fred Lee and Anne Jones-Lee have established a website, www.gfredlee.com, where they list and make available their recent papers and reports. This resume provides the details on Dr. G. F. Lee's professional activities.

SUMMARY INFORMATION

NAME: G. Fred Lee

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DATE & PLACE OF BIRTH:	TELEPHONE:	FAX:
July 27, 1933	530/753-9630	530/753/9956
Delano, California, USA	(home/office)	(home/office)

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EDUCATION

Ph.D. Environmental Engineering & Environmental Science, Harvard University, Cambridge, Mass. 1960
M.S.P.H. Environmental Science-Environmental Chemistry, School of Public Health, University of North Carolina, Chapel Hill, NC 1957
B.A. Environmental Health Science, San Jose State University 1955

ACADEMIC AND PROFESSIONAL EXPERIENCE

Current Position:

Consultant, President, G. Fred Lee & Associates

Previous Positions:

Distinguished Professor, Civil and Environmental Engineering,
New Jersey Institute of Technology, Newark, NJ 1984-89
Senior Consulting Engineer, EBASCO-Envirosphere, Lyndhurst, NJ (part-time)
1988-89
Coordinator, Estuarine and Marine Water Quality Management Program,
NJ Marine Sciences Consortium Sea Grant Program 1986-1988
Director, Site Assessment and Remedial Action Division, Industry
Cooperative Center for Research in Hazardous and Toxic Substances,
New Jersey Institute of Technology et al., Newark, NJ 1984-1987
Professor, Department of Civil and Environmental Engineering, Texas Tech
University 1982-1984
Professor, Environmental Engineering, Colorado State University 1978-1982
Professor, Environmental Engineering & Sciences; Director, Center of
Environmental Studies, University of Texas at Dallas 1973-1978
Professor of Water Chemistry, Department of Civil & Environmental
Engineering, University of Wisconsin-Madison 1961-1973

Registered Professional Engineer, State of Texas, Registration No. 39906

Diplomate, American Academy of Environmental Engineers, Certificate No. 0701

PUBLICATIONS AND AREAS OF ACTIVITY

Published over 1060 professional papers, chapters in books, professional reports, and similar materials. The topics covered include:

- Studies on sources, significance, fate and the development of control programs for chemicals in aquatic and terrestrial systems.
- Analytical methods for chemical contaminants in fresh and marine waters.
- Landfills and groundwater quality protection issues.
- Impact of landfills on public health and environment.
- Environmental impact and management of various types of wastewater discharges including municipal, mining, electric generating stations, domestic and industrial wastes, paper and steel mill, refinery wastewaters, etc.
- Stormwater runoff water quality evaluation and BMP development for urban areas, highways and agricultural areas.
- Eutrophication-excessive fertilization causes and control.
- Groundwater and surface water quality impact of land disposal of municipal and industrial wastes,
- Environmental impact of dredging and dredged material disposal,
- Water quality modeling,
- Hazard assessment for new and existing chemicals,
- Water quality and sediment criteria and standards,
- Water supply water quality,
- Assessment of the actual environmental impact of chemical contaminants on water quality.

LECTURES

Presented over 860 lectures at professional society meetings, universities, and to professional and public groups.

GRANTS AND AWARDS

Principal investigator for over eight million dollars of contract and grant research in the water quality and solid and hazardous waste management field.

GRADUATE WORK CONDUCTED UNDER SUPERVISION OF G. FRED LEE

Over 90 M.S. theses and Ph.D. dissertations have been completed under the supervision of Dr. Lee.

ADVISORY ACTIVITIES

Consultant to numerous international, national and regional governmental agencies and industries.

PROFESSIONAL SOCIETIES

American Chemical Society
American Fisheries Society
American Public Works Association
American Society for Civil Engineers
American Water Works Association
California/Nevada Section American Waterworks Association
California Water and Environmental Modeling Forum
NorCal SETAC
Society of Environmental Toxicology and Chemistry
Water Environment Federation

Member, Editorial Advisory Board, *Environmental Science & Technology*, published by American Chemical Society, 1966-1970
Member, American Water Works Association Committees on Organic Contaminants in Water, 1964-1970; Iron, and Manganese, 1965-1970; and Chairman, Quality Control in Reservoirs, 1978-1981
Reviewer, National Academy of Sciences & Engineering Panel on Water Quality Criteria, 1971
Member, Water Pollution Control Federation Committee on Biodegradation and Nitrogen-Phosphorus, 1965-1970; Standard Methods Committee, 1972-1982; Sediment Water Quality Task Force, 1992-present; Water Quality Criteria Task Force, 1993-present
Chairman, ASTM Committee on Environmental Chemistry-Fate Modeling of Pesticides in the Environment, 1977-1979
Reviewer, American Fisheries Society-US EPA Water Quality Criteria, 1977
Chairman, Water Pollution Control Federation Standard Methods Subcommittee, "Interpretation and Application of Bioassays," 1979-1988
Member, Editorial Board *Journal, Society for Environmental Toxicology and Chemistry*, 1982-1984
Member, Editorial Board *Journal, Ground Water*, 1989-1991
Chief and Associate Chief State Examiner, American Academy of Environmental Engineers, New Jersey, 1986-1989
Member, Hazardous Waste Committee, New Jersey Water Pollution Control Association, 1985-1989
Member, ASCE Committee on Solid Waste Engineering 1991-1994
Member, ASCE Committee on Groundwater Recharge 1992-2004
Member, Air and Waste Com and Water Resources Committee CA Chamber of Commerce, 1990-1993
Chief Examiner of the American Academy of Environmental Engineers, North Central California, 1991-
Led development of California Groundwater Resources Association, 1992-1993
Member, California Environmental Protection Agency Comparative Risk Project Human Health Committee, 1993-1994
Member, WEF Urban Stormwater Quality Task Force, 1994-1997
Member, California DTSC Committee on Hazardous Waste Classification, 1996-1999
Member, Water Environment Federation Research Foundation Subcommittee on Nitrogen Management Protocols for Biosolids Beneficial Use 1996-2000
Member, Water Environment Federation Committee on Domestic Wastewater Reuse, 1996-1999
Member American Water Works Association Source Water Quality Committee 2000
Member, Water Environment Federation Committee on Domestic Wastewater Reuse, 1996
Chair, California State Stormwater Quality Task Force Stormwater Science Workgroup, 1998-99
Chair, San Joaquin River DO TMDL Technical Advisory Committee, 2000-2001
US EPA TAG Advisor for the UCD/DOE LEHR Superfund site, 1995-
US EPA TAG Advisor for the Lava Cap Mine Superfund site, 2001-2004
PI for \$2 million/yr CALFED research project on the San Joaquin River DO TMDL Program
Member, Editorial Board, *Journal Stormwater*, 2001-
Member, Editorial Board, *Journal Remediation*, 1999-
Member, CVRWQCB Ag Waiver Technical Advisory Committee, 2004-
Participant, SWRCB Sediment Quality Objective Development Committee 2004-

HONORS AND AWARDS

Elected member of the following:

Sigma Xi

Delta Omega, Honorary Public Health Scholastic Society

Phi Lambda Upsilon, Honorary Chemistry Scholastic Society

Diplomate, American Academy of Environmental Engineers

American Academy of Environmental Engineers Board Certified Environment Engineer

Tied for first place for best paper presented at the Fifth Annual ASTM Aquatic Toxicology meeting in Philadelphia, PA, October, 1980

Charles B. Dudley Award - American Society for Testing and Materials award for contribution to Hazardous Solid Waste Testing, "Application of Site-Specific Hazard Assessment Testing to Solid Wastes," published (1984)

Journal AWWA paper selected by the Resources Division of the AWWA as the best paper published in the Journal during the year, 1984

US Representative, World Federation of Engineering Organizations First World Congress on Engineering and the Environment, Buenos Aires, Argentina, November, 1981

Received Certificate of Appreciation from the Corps of Engineers for work on the Dredged Material Research Program, 1978

Received Certificate of Appreciation from the Lubbock County Water Control and Improvement District No. 1 for work in Water Quality Management of Buffalo Springs Lake, 1982

Received Tribute of Appreciation from the Groundwater Resources Association of California, September 2000.

EXAMPLES OF WORK WITH GOVERNMENTAL AGENCIES, PUBLIC GROUPS AND PROFESSIONAL ORGANIZATIONS

<u>AGENCY</u>	<u>TYPE OF ACTIVITY</u>
US Environmental Protection Agency	Panel section leader on lake restoration
Wisconsin Department of Natural Resources	Advise on use of pesticides for fish management programs. Member of thermal pollution study criteria committee
Attorney General, State of Illinois	Assist in preparation of lawsuit against US Steel Corporation on the effects of the discharge of wastewater on water quality in southern Lake Michigan
State of Wisconsin	Member, committee on groundwater quality control, 1970-73
US-Canada International Joint Commission	Member, research advisory board committee on eutrophication research, 1973-76
Great Lakes Basin Commission	Member, ad hoc committee on water quality modeling, 1974
US Public Health Service	Advise drinking water standards for PCB's, 1970-71
State of Wisconsin	Secretary, Technical Advisory Council of Wisconsin Pesticide Review Board
City of Madison, Wisconsin	Vice Chairman, Lake Mendota Problem Committee
Madison Metropolitan Sewerage District	Evaluate effect of wastewater disposal on water quality in receiving waters
President's Council on Environmental Quality	Advise on the role of phosphate in the eutrophication of natural waters. Advise on methods for control of chemical pollution of natural waters. Assist in development of toxic chemical control legislation
US Army Environmental Hygiene Agency	Advise water supply and wastewater disposal at Army installations, military bases, and munitions work, 1972-74
National Academy of Sciences, National Academy of Engineering	Advise on the development work plan for National Commission on Water Quality
National Commission on Water Quality	Review of the 1972 Amendments to the Federal Water Pollution Control Act
US Environmental Protection Agency	Advisor to Task Force on Ocean Dumping, 1973

US Army Corps of Engineers	Member, advisory panel on development of program for determining effect of dredged material disposal on water, 1972-77
Dane County Planning Commission	Advise on potential effects of wastewater irrigation on water quality in Dane County, Wisconsin
US Army Corps of Engineers - San Francisco District	Review dredge spoil disposal criteria research program for San Francisco Bay
US Comptroller General of GAO	Review the effectiveness of the Federal research grant programs in the area of water quality management, 1973
US Environmental Protection Agency	Member, steering committee for chemical and biological studies on Lake Ontario as part of the International Field Year for the Great Lakes, 1973-74
Tennessee Valley Authority	Advise on water quality monitoring program for evaluating environmental impact of hydro and steam electric power production, 1974
National Oceanic & Atmospheric Administration	Advise on Great Lakes water quality modeling, 1974
WAPORA - Attorney General, State of Illinois	Advise on litigation on impact to State of Illinois of Milwaukee municipal wastewater discharge on water quality of Lake Michigan
US Environmental Protection Agency	Represent US EPA at International Workshop on OECD-Eutrophication Program, 1975
Property Owners, City of Sachse, Texas	Conduct study on the impact of sanitary landfills on environmental quality
City of Dallas Water Utilities	Advise on study of water quality in Lake Ray Hubbard
State of New Mexico	Advise on approach for assessing nutrient load and effects on water quality in New Mexico impoundments
City of Dallas Health Department	Advise on water quality studies
US Environmental Protection Agency	Review reports on Lake Ontario water quality Develop water quality research strategy for the Great Lakes
International Joint Commission	Serve as chairman of Research Advisory Board, the Great Lakes Committee that defines research needs for thermal pollution, dredged material disposal, oil spills, and water level regulation
OECD Eutrophication Program	Serve as US representative to Technical Bureau of OECD Eutrophication Program

Attorney General, State of Texas	Advise on environmental impact of sanitary landfills on surface and groundwater quality
New York District of the US Army Corps of Engineers	Develop monitoring program to evaluate the significance of contaminants in dredged sediments on water quality in the New York Bight
Parks Department, City of Chicago	Advise on water quality management of park lagoons
National Oceanic and Atmospheric Administration	Assist in selection of the 20 most important New York Bight Study contaminants entering the New York Bight
US Environmental Protection Agency	Review pretreatment requirements for wastewaters produced by steam electric generating stations before discharge to public domestic wastewater sewerage systems
US Environmental Protection Agency	Advise on development of Ocean Dumping Regulations, 1976
US Environmental Protection Agency - US Army	Assist in developing benthic organism bioassay Corps of Engineers procedure
New York District of US Army Corps of Engineers	Evaluate significance of ocean dumping of dredged sediment on water quality in the New York Bight
US-Canada International Joint Commission Research	Member of Expert Committee on Engineering and Advisory Board for the Great Lakes Technical Aspects of Great Lakes Water Quality
City of Denison, Texas	Advise on lawsuit on environmental impact of city's wastewater discharges
University of Puerto Rico Center for Energy and Environment	Advise on research program on environmental impact of energy development
Emilia-Romagna Region - Italian Government	Advise on research program for control of eutrophication of nearshore waters of Adriatic Sea
US Environmental Protection Agency	Advise on study designed to evaluate the environmental impact of dredging and dredged material disposal
American Fisheries Society	Reviewer of US EPA Quality Criteria for Water; Section Coordinator of Phosphate Section
US Corps of Engineers - New Orleans District	Advise on Dredged Material Disposal Criteria
US Environmental Protection Agency	Review Water Quality Criteria - toxic chemicals

The Netherlands Government Rijkswaterstaat	Advise on development of environmental quality management programs for the Delta Works dams on the Rhine River Estuary
Spanish Government Ministry of Public Works	Advise on water quality management plans for Spanish impoundments
State of Florida	Advise on control of nutrients from drained wetlands
US Department of Energy	Advise on award of contracts for work in the area of conservation and energy production in association with disposal of municipal wastewater sludges
US Environmental Protection Agency	Member of workshop panel devoted to defining research needs in the area of transport and fate of toxic chemicals in the environment
US-Canada IJC Research Advisory Board for Great Lakes	Member subcommittees of ETA devoted to Water Quality environmental impact of dredging on Great Lakes water quality and Available forms of contaminants in Great Lakes waters
Joint Industry-Governmental Agency Group	Participate in workshops estimating the hazard of chemical substances to aquatic life
US Department of Interior Fish and Wildlife Service	Participant in workshop devoted to modeling of the effect of instream flow on water quality
US Environmental Protection Agency	Advisor on measurement of available phosphorus in domestic wastewater treatment plant effluents
Fort Collins, Colorado	Advisor on impact of wastewater discharges on water quality in the Poudre River
Platte River Power Authority	Advisor on water quality management in cooling water impoundment
Northwest Colorado Council of Governments	Advisor on development of eutrophication study program for Dillon reservoir
State of Colorado Department of Health	Advisor on PL 92-500, Section 314-A lake classification studies
Denver Regional Council of Governments	Advisor on water quality studies
Pueblo Area Council of Governments	Conduct study on impact of Pueblo's wastewaters on Arkansas River water quality
Cities of Fort Collins and Loveland, Colorado	Evaluate water quality impacts of chlorine and ammonia in domestic wastewaters
Governor Lamm - Colorado, Lowry Hazardous Waste Disposal Task Force	Evaluate environmental impact of hazardous waste disposal at Lowry disposal site, Denver, Colorado

Attorney General, State of New York	Advise on procedures for long term storage of hazardous wastes
Longmont, Colorado	Advise on domestic wastewater impact on water quality in the St. Vrain River
Colorado Springs, Colorado	Advise on impact of domestic wastewater discharge on water quality in Fountain Creek
US Environmental Protection Agency	Evaluation of National Eutrophication Survey results
US Army Corps of Engineers, Norfolk District	Advise on environmental impact of dredging sediment containing kepone and other contaminants Develop water quality monitoring program for dredging North Landing River channel
US Army Corps of Engineers Rock Island District	Advise on impacts of chemical contaminants in upper Mississippi River sediments on water quality aspects of dredged sediment disposal
Brush, Colorado	Advise on impact of location of hazardous waste disposal site in watershed for domestic water supply
US Environmental Protection Agency	Review draft water quality criteria document for ammonia
Colorado Department of Health - Water Quality Division	Member bioassay guidelines committee
Dominican Republic	Advise on water quality in proposed domestic water supply reservoir
Ministry of Public Works of Argentina	Advise on modeling of eutrophication in Argentine lakes and reservoirs and on approaches for establishing water quality criteria and standards
US Environmental Protection Agency	Peer reviewer, site-specific water quality criteria guidelines
National Oceanic & Atmospheric Administration	Participant in workshop on development of meaningful measures of marine pollution impacts
US Environmental Protection Agency	Develop guidance document for implementing ammonia water quality criteria in permitted discharges
US AID and Jordanian National Planning Council	Evaluate proposed water quality and development of monitoring program for Jordan
Olathe, Kansas	Development of water quality management program for Lake Olathe

US EPA, US COE, API, and CMA	Member planning committee US EPA, Corps of Engineers, Chemical Manufacturers Association, and American Petroleum Institute, sponsored workshop on Hazard Assessment Techniques for Contaminants in Aquatic Sediments
South African Water Research Commission	Advise on application of OECD eutrophication study results to South African impoundments
Government of Swaziland - US AID	Evaluate safety of use of household bleaches for home water supply disinfection
US Environmental Protection Agency	Peer reviewer for lead and chromium ambient water quality criteria
Pan American Health Organization - World Health	Advise government of Argentina on water quality management in impoundment
Brazos River Authority	Evaluation of therapeutic value of Stovall Hot Wells water
US Congress Office of Technology Assessment	Review draft report on inadequacies of federal legislation governing land disposal of hazardous waste
Michigan Toxic Substance Control Commission	Advise on adequacy of Michigan legislation governing land disposal of waste
California State Water Quality Control Board	Review proposed regulations for land disposal of waste
US Army Construction Engineering Research	Advise on studies and the development of control Laboratory program for Fort Dix, New Jersey groundwater contamination problems
Texas Legislative Council Joint House Senate Hazardous Waste Committee	Advise on hazardous waste management approaches for the state of Texas
State of Texas Comptroller's Office	Advise on hazardous waste taxation
United Nations Water Power Research Station at Poona, India	Advise on water quality management for hydropower developments and for nearshore and marine waters
Canadian River Municipal Water Authority	Advise on methods for the control of fresh water sponge growth in transmission lines and THM control
Tunisian Ministry of National Economy	Advise on the development of water quality management programs for Tunisian industry
Argentine Ministry of Public Health and Social Affairs	Advise on approaches for developing water quality criteria and standards, management of water quality in Argentine reservoirs, and hazardous waste management

The State of New Jersey, Dept. of Treasury	Review qualifications of consulting engineering firms for work in hazardous substance & waste management
Liberty State Park Commission, New Jersey	Review water quality problems associated with Port Liberte, New Jersey development
State of California Water Resources Control Board	Assist in development of long-range strategy for managing California's groundwater quality
Governor's Panel on Water Quality of New Jersey	Co-chairman and advise on evaluation of water Coastal Waters quality conditions and trends in New Jersey coastal waters
State of Vermont Department of Water Resources	Advise on developing revised phosphorus management strategy for Lake Champlain
US Army Construction Engineering Research	Advise on the use of landfill leachate recycle for Laboratory leachate treatment and disposal
Scotland and Robson Counties, City of Laurinburg, North Carolina	Evaluate the potential public health and water quality impacts of a proposed hazardous waste treatment facility on the Lumber River
Wayne County, Illinois	Evaluate the potential environmental problems of a proposed sanitary landfill
Newark Watershed Conservation and Development Corporation	Evaluate the environmental and public health aspects of an open-burning open-detonation hazardous waste treatment facility
Foundation de L'Eau, France	Impact of detergent phosphate bans on water quality
US Environmental Protection Agency	Reviewer of US EPA draft document on domestic wastewater dechlorination
Green Pond Lake End Board, New Jersey	Advise on Green Pond Lake water quality management, 1987
NY Academy of Sciences Public Policy Program	Advise on management of PCB's in the Hudson River system, 1988
USSR Academy of Sciences	Advise on water quality management programs for Volga River system, May 1987-
National Water Well Association	Review content of workshops and short courses, 1987
US Environmental Protection Agency	Reviewer of Office of Toxic Substances/Test Rules Development Branch documents for evaluation of public health and environmental impact of new chemicals
EBASCO-Envirosphere Rem III	Advise on work plan for Solvent Savers Site and Niagara County, New York Refuse landfill, 1988-89

NJ Department of Environmental Protection	Member of New Jersey DEP Thermal Discharge Evaluation Committee, 1989
San Gabriel Basin Main Watermaster	Advise on groundwater quality impacts of proposed landfill expansion, 1989-1992
North Carolina Attorney General	Advise on appropriate degree of treatment of hazardous waste treatment facilities wastewater discharges on public health and environmental quality, 1988-89
Department of Health, Booton Township, New Jersey	Advise on evaluation of potential impact of development of a lake's watershed with septic tank wastewater disposal systems on lake water quality, 1989
Metropolitan Water District of Southern California	Recommend revised California regulations governing landfilling of solid wastes as part of revisions of Subchapter 15, 1990-93
	Review potential public health and environmental problems of San Diego County Department of Public Works for three proposed North County Class III landfills, 1990-91
	Assist in litigation on the Azusa landfill expansion, 1990-92
Port of Oakland, California	Advise on management of contaminated dredged sediments, 1990
City of Sacramento, California	Advise on adequacy of hazardous chemical clean-up as part of redevelopment of the Southern Pacific Railyard site, 1990-92
California Regional Water Quality Control Board staff	Review potential public health and environmental San Francisco Region aspects of the proposed Apanolio Canyon landfill, July 1990
City of Pittsburg, California	Review potential public health and environmental aspects of the proposed Keller Canyon Landfill, August 1990-April 1992
	Assist in litigation on the adequacy of CEQA review of Contra Costa County's Solid Waste Management Plan Management Plan, 1991
Port of San Diego, California	Conduct an aquatic life and public health risk assessment to assess the potential impacts of copper contaminated sediments on San Diego Bay water quality.
	Assist in developing revised sediment quality cleanup objectives.

New Jersey Department of Environmental Protection	Review 316 B thermal discharge study results for the Oyster Creek, NJ, Nuclear Electric Generating Station, May, 1992
Menominee Township, Michigan	Review potential impact of proposed landfill on groundwater quality, testify at trial on this matter
Legal Services of Northern California, Sacramento, California	Review of draft and final EIR's for the Southern Pacific Sacramento Railyard/Richards Boulevard Area Redevelopment Plans
Public Broadcasting System TV Program Hometime	Consultant on management of hazardous chemical residues in refinishing woodwork, April 1993
University of California Water Resources Center	Reviewer of research proposals
Sierra Club of Florida	Review the State of Florida proposed solid waste management regulations
Greater Moneocha Community Action Association, Gainesville, Florida	Review siting approach used by Dept. of Public Works, Alachua County, Florida
American Academy of Environmental Engineers	Review draft state-of-the-art hazardous waste management documents
Citizens Groundwater Group in Michigan	Review state solid waste regulations
D.A.R.E., <i>et al.</i> , Toronto, Ontario, Canada	Review proposed approach for siting landfills in Greater Toronto Area
Hammond, Indiana Sanitary District	Review impact of CSO's and wastewater discharges on receiving water quality
City of New Haven, Indiana	Review of proposed expansion of hazardous waste landfill on groundwater resources
American Dental Association	Evaluate water quality impacts of dental amalgam discharges to sanitary sewer
California Highway Department (Caltrans)	Evaluate impact of highway stormwater runoff on Santa Monica Bay water quality Review report on heavy metals in highway stormwater runoff
Greenpeace Mexico, Mexico City	Advise on adequacy of Mexico's proposed hazardous waste landfilling regulations
Ypsilanti Township, Michigan	Review potential impact of proposed hazardous waste landfill expansion on the Township's groundwater supply
Adams Mine Site Public Liaison Group, Kirkland Lake, Ontario	Review potential problems with Metropolitan Toronto developing a solid waste landfill in the former Adams Iron Ore Mine

Davis South Campus Superfund Oversight Committee, Davis, California	US EPA-sponsored advisor to the public for the DOE-UCD LEHR site investigation and remediation
Monterey County Housing Authority, Salinas, California	Advise on redevelopment of property with elevated soil lead levels
California Department of Toxic Substance Control	Advise on solid waste classification issues
Davis, California Citizens Committee	Advise on protection and enhancement of Putah Creek water quality and proposed UCD west landfill development
Hong Kong Government Environmental Protection Department, Hong Kong	Advise on management of contaminated harbor sediments and urban stormwater runoff water quality issues
City of Winnipeg, Manitoba	Advise on potential for a proposal landfill to pollute groundwaters
CROWD, Tacoma, Washington	Advise on potential for proposed landfill to be adverse to public health and the environment
SOLVE, Phoenix, Arizona	Advise on proposed reclamation of copper mine tailings area and redevelopment as a golf course
Newport Beach, California	Advise on the potential impacts of discharge of reclaimed domestic wastewaters on water quality in Upper Newport Bay
Water Environment Federation Research Foundation	Advise on nitrogen management protocols for biosolids beneficial use
Sacramento River Watershed - Toxics & Monitoring Subcommittee	Advise on development of watershed-based water quality management
Interagency Ecological Program - Pollutant Contaminant Effects Group	Advise on water quality impacts of chemical constituents on Delta water quality
Urban Pesticides Committee	Advise on urban pesticide toxicity management
California Resources Agency - Delta Levee and Shallow Water Habitat Committee	Advise on contaminated sediment management issues
Caltrans	Advise on water quality and public health significance of near highway surface soil lead residues
Citizens Group near St. John's, New Brunswick	Advise on the impact of a proposed municipal solid waste landfill on groundwater resources of the area
DeltaKeeper	Advise on water quality management programs for the Sacramento-San Joaquin River Delta
Cache Creek Watershed Program	Advise on Hg Control Program

Clermont County, Ohio	Advise on hazardous waste landfill closure issues
Environmental Defense Fund, New York City and the Belize National Zoo	Advise on impacts of proposed landfill in Belize on public health and the environment
New York City Public Interest Group	Advise on development of a golf course and park on a former landfill in New York City
South Yuba River Citizens League	Advise on Lava Cap Mine Superfund site investigation/remediation
California Regional Water Quality Control Board, Central Valley Region	Advise on water quality management issues for organophosphate pesticides, organochlorine pesticides, oxygen-demanding materials, and aquatic life toxicity, managing effluent-dependent waterbodies, development of nonpoint source pollution control program
California Regional Water Quality Control Board, Santa Ana Region	Advise on water quality management in the Upper Newport Bay watershed, Orange County, California
Wright County, Minnesota	Advise on potential impacts of municipal landfill expansion on surface and ground water quality
Sportfishing Protection Alliance	Advise on impact of landfill leachate on trout stream water quality
	Advise on impacts of stormwater runoff from housing development on water quality
	Advise on impacts of dumping concrete wastes in a stream on water quality
	Advise on impact of stormwater runoff erosion from mountain road on trout stream water quality
	Advise on the water quality impacts stormwater runoff from large residential development
Yolo County Department of Health	Advise on aquatic life toxicity in Putah and Cache Creeks
US EPA Region 9 Technical Assistance Group	Advise on developing nutrient criteria
San Joaquin River DO TMDL Steering Committee	Advise on developing TMDL to control oxygen depletion in the San Joaquin River Deep Water Ship Channel
Orange County Transportation Corridor Agency	Advise on development of best management practices and water quality impacts of new highway development
Yolo County Department of Public Works	Advise on managing water quality in Cache Creek

California Department of Toxic Substances Control	Advise on classification of solid waste as hazardous waste
River Watch, San Diego County, California	Advise on potential impacts of proposed Gregory Canyon Landfill
Waikato River Protection Society, New Zealand	Advise on potential water quality impacts of proposed landfill on Waikato River
City of Calabasas, California	Review Adequacy of the Ahmanson Ranch SEIR water quality issues for proposed urban development
Huber Heights, OH	Advise on potential impacts of expanded C and D landfill on groundwater supply water quality
Sanitary District of Hammond, IN	Review Natural Resources Damage Action by the US Fish and Wildlife Service on the West Branch of the Grand Calumet River
Groupe Teknika/Memphremagog Regional Council, Quebec, Canada	Provide comments on the potential impacts of an expanded Coventry, Vermont, landfill on Lake Memphremagog water quality
South Bay CARES	Provide comments on draft EIR for the LA County New South Coast County Golf Course on the Palos Verdes Landfill
Grand Forks County Citizens Coalition	Evaluate the potential impacts of proposed Grand Forks Landfill in Turtle River Township
Altshuler, Berzon, Nussbaum, Rubin & Demain	Review Sunshine Canyon City/County Landfill, Granada Hills, CA
DeltaKeeper, Stockton, CA	Technical advisor on water quality issues
Natural Resources Defense Council, San Francisco, CA	Review potential benefits of releasing water from Friant Dam to the San Joaquin River on San Joaquin River and Delta water quality
Mobile, AZ	Review potential impacts of proposed Southpoint Landfill on Mobile, AZ
Pottstown Landfill Closure Committee	Recommend approach for closure of Pottstown Landfill, Pottstown, PA
Meriwether County, GA	Testify at trial on the appropriateness of restricting the siting of MSW landfills in small domestic water supply watersheds
Hancock County, GA	Advise on potential impacts of proposed Culverton Landfill on domestic water supply water quality

OUTRAGE and POWER

Provide comments on the potential impacts of the proposed Kankakee Landfill, Kankakee, IL

John Cobey et al.

Evaluate the potential impacts of two proposed construction and demolition waste landfills on public health, groundwater resources and the environment, Morrow County, OH

Heart of Illinois Sierra Club and Peoria Families
Against Toxic Waste

Evaluate potential impacts of proposed expansion of PDC hazardous waste landfill, Peoria County, IL

EXAMPLES OF INDUSTRIAL/COMMERCIAL CONSULTING EXPERIENCE

<u>FIRM OR AGENCY</u>	<u>TYPE OF ACTIVITY</u>
Commonwealth Edison Company	Advise on effect of thermal discharge of nuclear electric generating station on water quality in Lake Michigan
N.E. Isaacson & Associates	Evaluate potential water quality in proposed impoundment of land development. Evaluate effect of septic tank wastewater disposal system on surface and groundwater quality
Wisconsin Electric Power Company	Advise on study of effect of thermal discharges of thermal electric generating station on water quality
James Lonsdorf, Attorney	Evaluate effect of sanitary landfill drainage on groundwater quality
United Engineers	Design study program and model for chlorine persistence in thermal discharge plume in Delaware River estuary
Inland Steel Development Corporation	Evaluate potential effects of land development on water quality in Lake Monroe, Ind.
Reserve Mining Company	Advise on analytical methods, sampling program and procedures for the study of the effect of taconite tailings on water quality
Procter & Gamble Company	Review studies on NTA and other compound's potential effect on environmental quality
Automated Environmental Systems	Member of Board of Directors, 1970-71
Bear Creek Mining, Kennecott Copper Corporation	Advise on water quality impact of proposed copper mining activity
WAPORA - US Army Corps of Engineers	Evaluate potential for eutrophication in proposed impoundment on the upper Delaware River
Inland Steel Corporation	Assist in evaluation of environmental impact of company's wastewater discharge
Hooker Chemical Company	Advise on the use of hazard assessment approach for evaluating the water quality significance of chemical contaminants
Mission Viejo Development	Advise on water quality impacts of potential wastewater discharges
Outboard Marine Corporation	Advise on water quality significance of PCB's in sediments

Amoco Oil Company	Investigate environmental significance of gasoline spill
Allied Chemical Company	Advise on approaches that should be used to evaluate the environmental impact of contaminants in solid wastes
Appalachian Timber Services, Inc.	Advise on impact of phenolics, copper, chromium solid waste on surface and groundwater quality
E. I. DuPont	Advise on approach to assess environmental hazard of chemical railroad car spills
J. Rupp	Advise on land development in wetlands area in Minnesota
Stauffer Chemical Company	Advise on aquatic toxicity facility and program development
Technical Testing Laboratories, Inc.	Advise on water quality impact of chemical waste disposal on groundwater quality
Neville Chemical Co.	Advise on litigation of hazardous waste disposal on contamination of municipal water supply well
Adolph Coors Company	Evaluate water quality impacts of industrial wastewater discharges
Grinnell Fire Protection Systems, Inc.	Evaluate performance of plating waste treatment plant and develop approach for management of hazardous wastes
Mobil Chemical - Pasadena, Texas	Evaluate impact of ammonia discharges on water quality in Houston Ship Channel
Nekoosa Edwards, Inc.	Advise on water quality management program for company's water supply
US Steel Corporation	Advise on environmental impact of wastewaters on water quality
Monsanto Chemical Company	Advise on environmental impact of products
Foley and Lardner, Attorneys	Consultant, environmental impact of paper mill discharges
Gould, Inc.	Advise on environmental impact of plating wastes on fresh water clams
Illinois Petroleum Council	Advise on water quality standards for cyanide and metal cyanide complexes
FMC Corporation	Advise on impact of detergent phosphate on water quality
Zimpro, Inc.	Advise on potential areas for business expansion

A. Halff, Engineers	Advise on water quality in Town Lake in Dallas, Texas
Acme Brick Company	Advise on environmental impact of land disposal of chemical wastes
Follett Publishing Company	Technical consultant for book entitled <u>Water</u>
El Paso Natural Gas Company	Evaluate environmental impact of dredging channel in Matagorda Bay, Texas
Genesis II, Inc.	Advise on technical aspects of new product development
Procter & Gamble Company, Japan	Evaluate significance of detergents as a cause of water pollution problems in Japan
King Industries	Advise on environmental impact of dredging Norwalk, Connecticut Harbor channel on water quality
Cotter Company	Advise on adequacy of domestic water treatment plant operations
Allied Chemical Company	Advise on water quality significance of ammonia
Idarado Mining Co., Telluride, Colorado	Advise on water quality impact of heavy metal mine tailings and drainage
Kraft Foods, Inc., Northbrook, Illinois	Advise on impact of wastewater ammonia and BOD discharges on receiving water quality in Lakeland, Florida
Trammel Crow, Inc., Dallas, Texas	Advise on water quality management in Crystal Lake, West Orange, New Jersey
	Develop water quality management program for new office complex
Zukowsky, Rogers & Flood, Esqs., Crystal Lake, Illinois	Assist in evaluating environmental impact of proposed sanitary landfill
US EPA Washington, DC	Reviewer for Toxic Substances/Test Rules Development Branch documents for evaluation of public health and environmental impact of new chemicals
EBASCO-Envirosphere REM III	Advise on work plan for Solvent Savers Site and Niagara County, NY Refuse site; review CIC Edison, NJ Site PCB and Dioxin remediation; rewrite Brick Township Phase I RI/FS report; Pearch Water Site PCB Treatability Studies; develop RI/FS investigation guidance manual, 1988-89
Unilever, R&D Headquarters, The Netherlands	Evaluate impact of phosphate on water quality in lakes and reservoirs

H. A. Bogorad	Review potential water quality in proposed hydropower impoundment
IBM Corporation	Review long-range management strategy for hazardous wastes
PSE&G (Public Service Energy and Gas)	Advise on managing gasification residues and other areas of water quality management
McHenry County Defenders, Illinois	Review potential water quality problems associated with siting a new sanitary landfill
Schmeltzer, Aptaker and Shepard, Attorneys, Washington, DC	Advise on water quality problems associated with disposal of industrial waste in a sanitary landfill
D. Walsh, Attorney and W. Kelly	Advise on the impact of land development on water quality in Lake Tahoe, CA/NV, 1989
Sturbridge Lakes, New Jersey	Advise on water quality management for Sturbridge Lakes, 1989
CP Chemical, Seawaren, New Jersey	Advise on control of toxicity in hazardous waste treatment facility's wastewater discharges, 1989
Exxon Research & Engineering Co., Annadale, NJ	Evaluate potential for algal bloom development as result of use of bioremediation nutrients on oil spill beach residues in Prince William Sound, Alaska, 1989
Delta Wetlands, Lafayette, California	Evaluate potential water quality-trihalomethane formation potential in proposed water supply storage reservoirs in Sacramento and San Joaquin River Delta, 1989
Newport City Development, Jersey City, New Jersey	Advise on remediation of coal tar waste sites
Dart and Kraft Inc., Northbrook, Illinois	Evaluate impact of phosphorus from wastewaters on receiving water quality Evaluate impact of wastewater discharges on receiving water quality, Melrose, Minnesota
CDM Inc., Edison, New Jersey	Review Superfund RI/FS for Ft. Dix landfill
Yellow Ribbon Panel, Vernon, New Jersey	Advise on the public health and environmental hazards of disposal of radium waste near Vernon
Orbe, Nugent and Collins, Attorneys, Ridgewood, New Jersey	Advise on impact of landfill on surface and groundwater quality
Wyman-Gordon Co., North Graton, Massachusetts	Advise on water treatment system for high purity argon recovery
Save Our Shores, Neptune, New Jersey	Advise on sanitary quality of New Jersey coastal waters

Levy & Angstreich, Attorneys, Cherry Hill, New Jersey	Advise on public health impact of hazardous waste landfill on nearby residents
General Foods, Inc., White Plains, New York	Evaluate potential aquatic life toxicity of animal fat residues in industrial wastewater discharges to Boston Harbor, 1989
Simpson Paper Co., Anderson, California	Evaluate appropriate wastewater discharges for dioxins, 1990-93 Assist in evaluating water quality impacts of paper mill discharges to coastal waters of Northern California, 1990-92
Hancock, Rotherth & Bunshoft, Attorneys, San Francisco, California	Assist in Aerojet litigation on TCE contamination of groundwater, 1990-91
Remy and Thomas, Attorneys at Law, Sacramento, California	Assist in appeal of California Regional Board approval of proposed landfill
Rockwell International Rocketdyne Division, Canoga Park, California	Assist in development of revised NPDES wastewater and stormwater discharge permit
Mobil Mining and Minerals Company, Pasadena, Texas	Assist in management of excessive toxicity in wastewater discharges
Wallace-Kuhl Associates, West Sacramento, California	Evaluate potential public health and environmental impacts of residual mercury in soils on proposed housing development
Hidden Valley Resources, Inc., Bakersfield, California	Review proposed hazardous waste landfill design for long term waste containment
RR&C Development Company, City of Industry, California	Advise on potential impacts of proposed Puente Hills Landfill expansion
Vanderkloot, Rentrop, Martin, Haynes & Morrison, Attorneys, Bloomfield Hills, Michigan	Assist in landfill litigation
American Dental Association, Chicago, Illinois	Review potential environmental significance of residual waste amalgam discharged to sanitary sewerage systems
Mountain View Golf Course Co., Mountain View, California	Evaluate causes of dead turf associated with landfill gas emissions; testify at trial.
Emerald Environmental Co., Coarse Gold, California	Conduct due-diligence review of potential for environmental liabilities for hazardous waste TSD for Clayton Chemical Co., Sauget, Illinois
M.S.P., Amelia, Louisiana	Review environmental impact of hazardous waste of kiln-derived aggregate in association with US EPA litigation

St. Paul Insurance Co., St. Paul, MN	Advise on litigation with respect to public water supply "blue water" conditions in housing development
Stanford Ranch, Rocklin, California	Evaluate impacts of sanitary landfill on adjacent properties
Citizens Group, Pittsburg, California	Evaluate impacts of Keller Canyon Landfill on public health and the environment
ASARCO, Inc., Tacoma, Washington	Advise on water quality issues on arsenic in Hylebos Waterway
Calamco, Stockton, California	Advise on water quality impacts of ammonia discharges to Port of Stockton
Miller Brewing Co., Los Angeles, California	Advise on impact of groundwater recharge on groundwater quality
Coyote Flats, Del Mar, California	Advise on potential impacts of City of San Mateo Landfill on nearshore water quality on San Francisco Bay
Yukong Gas Company, South Korea	Advise on groundwater pollution of gas storage caverns by proposed hazardous waste landfill
The Sutherlands, Pembroke, Ontario	Advise on groundwater pollution by solid wastes deposited above bottled water aquifer
Silverado Constructors, Irvine, California	Advise on development of stormwater runoff best management practices for the Eastern Transportation Corridor (a new 26-mile toll road)
Agricultural Interests in Puerto Rico	Advise on the potential impact of a proposed municipal solid waste landfill near the south coast of Puerto Rico
Strain Orchards, Colusa, CA	Advise on the potential impacts of CERRS Landfill on groundwater quality
Colonna Shipyards, Norfolk, VA	Advise on potential public health hazards associated with airborne transport of lead paint residues
S. Mehalakis	Advise on impacts of deposition of turkey carcasses in pits on groundwater quality
N. Drobac, Attorney, Santa Cruz	Advise on potential impacts of DDT runoff from agricultural lands on to private property
Western States Petroleum Association	Management of stormwater runoff from gasoline filling stations
Insurance Carriers, Houston, TX	Advise on litigation between BFI and Insurance Carriers on landfill impacts

Roseberg Resources, Redding, CA

Advise on litigation involving herbicide runoff from forested lands on domestic water supply water quality

Carson Harbor Village, Carson, CA

Advise on the water quality and public health impacts of hazardous wastes and stormwater runoff in a wetlands area

Staff USA, Granite Bay, CA

Review potential environmental impacts of existing closed landfill in Roseville, CA

PUBLICATIONS

Journal Articles, Bulletins, Conference Proceedings, and Book Chapters

1. Granstrom, M. L. and Lee, G. F., "Rate and Mechanisms of Reactions Involving Oxychloro Compounds," *Public Works* 88:90-92 (1957).
2. Granstrom, M. L. and Lee, G. F., "Generation and Use of Chlorine Dioxide in Water Treatment," *J. Am. Water Works Assoc.* 50:1453-1466 (1958).
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9. Shearer, S. D. and Lee, G. F., "Leachability of Radium 226 from Uranium Mill Solids and River Sediments," *Health Physics* 10:217-227 (1964).
10. Rai, H. and Lee, G. F., "Separation of Planktonic Algal Pigments by Thin Layer Chromatography," *Anal. Chem.* 36:2208 (1964).
11. Lee, G. F., "Discussion of paper, 'Role of Multivalent Hydrous Metal Oxides on Limnological Transformation,' by J. Morgan and W. Stumm," *Proc. 2nd Int. Conf. Water Pollution Research, Tokyo, August, 1964, Pergamon Press* (1965).
12. Kobayashi, S. and Lee, G. F., "Freeze Concentration of Dilute Aqueous Solutions," *Anal. Chem.* 36:2197 (1964).
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14. Malhotra, S. K., Lee, G. F. and Rohlich, G. A., "Nutrient Removal from Secondary Effluent by Alum Flocculation and Lime Precipitation," *Air & Water Pollut.* 8:487-500 (1964).
15. Lee, G. F., Kumke, G. W., and Becker, S. L., "Recovery of Organics from a Eutrophic Lake by the Carbon Adsorption Technique," *Air & Water Pollut.* 9:69-80 (1965).
16. Lee, G. F. and Harlin, C. C., "Effect of Intake Location on Water Quality," *Ind. Water Eng.* 2:36-40 (1965).
17. Gardner, W. S. and Lee, G. F., "Oxygenation of Lake Sediments," *Air & Water Pollut.* 9:553-564 (1965).

18. Clesceri, N. L. and Lee, G. F., "Hydrolysis of Condensed Phosphates. I: Non-Sterile Environment," *Air & Water Pollut.* 9:723-742 (1965).
19. Clesceri, N. L. and Lee, G. F., "Hydrolysis of Condensed Phosphates. II: Sterile Environment," *Air & Water Pollut.* 9:743-751 (1965).
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26. Shannon, J. E. and Lee, G. F., "Hydrolysis of Condensed Phosphates in Natural Waters," *Air & Water Pollut.* 10:735-756 (1966).
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597. Lee, G. F., and Jones-Lee, A., "Comments on 'Draft Conditional Waivers of Waste Discharge Requirements for Discharges from Irrigated Lands - Tentative Table 1 List of Receiving Water Limitations to Implement Water Quality Objective Guidance for Implementing the MRP,'" Submitted to Central Valley Regional Water Quality Control Board, Rancho Cordova, CA, by G. Fred Lee & Associates, El Macero, CA, November (2005). http://www.members.aol.com/annejlee/Agwavtable_1_com.pdf
598. Lee, G. F., and Jones-Lee, A., "Recommended Pesticide-Caused Aquatic Life Toxicity Monitoring," Report of G. Fred Lee & Associates, El Macero, CA, November 4 (2005). <http://www.members.aol.com/annejlee/PestToxMonitor.pdf>

599. Lee, G. F., and Jones-Lee, A., "Water Quality Issues That Could Influence Aquatic Life Resources of the Delta," Comments submitted to CALFED Science Program, Sacramento, CA, by G. Fred Lee & Associates, El Macero, CA, November 28 (2005).
<http://www.members.aol.com/annejlee/POD-Com.pdf>
600. Lee, G. F., and Jones-Lee, A., "Comments on 'Comprehensive Monitoring and Assessment Strategy to Protect and Restore California's Water Quality'," Submitted to California State Water Resources Control Board, Sacramento, CA by G. Fred Lee & Associates, El Macero, CA, December 6 (2005). <http://www.members.aol.com/annejlee/SWAMPcomments.pdf>
601. Lee, G. F., "Comments on the SWRCB Draft, 'Total Residual Chlorine and Chlorine-Produced Oxidants Policy of California,'" Submitted to California State Water Resources Control Board, Sacramento, CA, by G. Fred Lee & Associates, El Macero, CA, January 4 (2006)
<http://www.members.aol.com/annejlee/ChlorinePolicyCom.pdf>
602. Lee, G. F., "Review of the Proposed City of Kankakee Regional Landfill's Ability to Provide Public Health and Environmental Protection for as Long as the Wastes in This Landfill Will Be a Threat," Report to POWER (Protecting Our Water, Environment and Rivers), Report of G. Fred Lee & Associates, El Macero, CA, January 24 (2006).
<http://www.members.aol.com/annejlee/KankakeeLFfinal.pdf>
603. Lee, G. F., Jones-Lee, A., "San Joaquin River Water Quality Issues," Preliminary draft report of G. Fred Lee & Associates, El Macero, CA, February (2006).
<http://www.members.aol.com/annejlee/SJR-WQIssuesPrelimDraft.pdf>
604. Lee, G. F., and Jones-Lee, A., "Comments on the CVRWQCB Sacramento and San Joaquin River Proposed Pesticide Basin Plan Amendment Development Approach," Submitted to California Regional Water Quality Control Board Central Valley Region, Rancho Cordova, CA, by G. Fred Lee & Associates, El Macero, CA, February 27 (2006).
<http://www.members.aol.com/annejlee/CVRWQCB-BPA-Comments.pdf>
605. Lee, G. F., "Improving Public Health and Environmental Protection from the Proposed Morrow County C&DD Landfills," Report of G. Fred Lee & Associates, El Macero, CA, February 14 (2006).
<http://www.members.aol.com/annejlee/CDD-LF-Improvement.pdf>
606. Lee, G. F., "Summary of Findings on the Environmental Impacts of the Proposed C&D Landfill on Top of the Closed Gentilly Landfill," Submitted to Louisiana Department of Environmental Quality, Baton Rouge, LA, February (2006).
<http://www.members.aol.com/annejlee/FindingsGentilly.pdf>
607. Lee, G. F., "Comments on the Potential Impacts of the Peoria Disposal Company Landfill Expansion on Public Health, Groundwater Quality and the Environment," Submitted on behalf of the Heart of Illinois Sierra Club and Peoria Families Against Toxic Waste (PFATW) to the Peoria County Board, Peoria, IL, March (2006). <http://www.members.aol.com/annejlee/PDCRpt-final.pdf>
608. Lee, G. F., "Comments on Draft Demonstration Monitoring Plan for the Stockton Deep Water Ship Channel Oxygenation Device," Comments submitted to Central Valley Regional Water Quality Control Board by G. Fred Lee & Associates, El Macro, CA, March 21 (2006).
609. Lee, G. F., "Comments on 'Supplemental Peoria County Staff Report for Peoria Disposal Company Application for Local Siting Approval,' dated April 3, 2006," Report of G. Fred Lee & Associates, El Macero, CA, April 4 (2006).
<http://www.members.aol.com/annejlee/PDC-Supplement.pdf>

610. Lee, G. F., "Comments on Draft Demonstration Monitoring Plan for the Stockton Deep Water Ship Channel Oxygenation Device," Report of G. Fred Lee & Associates, El Macero, CA, April 6 (2006). <http://www.members.aol.com/annejlee/AerationComments.pdf>

COMMITTEE AND OTHER REPORTS

G. Fred Lee was a member of committees that prepared the following publications and reports.

"Nutrients Associated Problems in Water Quality and Treatment," Report to the AWWA Task Group on Nutrients in Water, J. Am. Water Works Assoc. 58:1337-1355 (1966).

"Sources of Nitrogen and Phosphorus in Water Supplies," Report by AWWA Task Group on Nutrients in Water, J. Am. Water Works Assoc. 59:344-366 (1967).

"Excessive Water Fertilization," Report to Wisconsin Water Subcommittee, National Resources Committee of State Agencies (1967).

"Required Characteristics and Measurement of Biodegradability," Report to Water Pollution Control Federation Subcommittee on Biodegradability, Water Pollut. Control Fed. 39:1232-1235 (1967).

"Chemistry of Nitrogen and Phosphorus in Natural Waters," AWWA Task Group on Nutrients in Water, J. Am. Water Works Assoc. 62:127-140 (1970).

"Artificial Destratification in Reservoirs," J. Am. Water Works Assoc. 63:597-604 (1971).

Contributor, The Water's Edge--Critical Problems of the Coastal Zone, B. Ketchum (ed), MIT Press (1972).

"Estimating the Hazard of Chemical Substances to Aquatic Life," Cairns, Dickson and Maki (eds) ASTM STP 657, 278pp (1978).

Chemical Pollutants of the New York Bight; Priorities for Research, NOAA Dept. of Commerce, Boulder, CO (1979).

"Instream Water Quality Section Proceedings Workshop in Instream Flow Habitat Criteria and Modeling," Colorado Water Resources Research Institute Information Series No. 40, Colorado State University, Fort Collins, CO, December (1979).

"Background and Summary Results of the OECD Cooperative Programme on Eutrophication," Vollenweider, R. A., Kerekes, J. J., and members of the Technical Bureau, Final OECD Eutrophication Study Technical Bureau, Paris (1981).

"Transport and Fate of Toxic Chemicals in The Environment," Proc of US EPA Workshop, (1981).

Reviewer, Water Pollution Control Federation "Nutrient Control" Manual of Practice FD-7 Facilities Design (1983).

Chairman of Committee, Section 801G, "Interpreting and Applying Results of Toxicity Tests," Standard Methods for the Examination of Water and Wastewater APHA AWWA, WPCF (1985).

Human Health Advisory Committee Comparative Risk Project, "Toward the 21st Century: Planning for the Protection of California Environment," May (1994).

Contributor to "Standard Guidelines for Artificial Recharge of Groundwater," ASCE Standard EWRI/ASCE 34-01, Reston, VA (2001).

Reviewer of the Handbook of Sediment Quality, publ by the Water Environment Federation (2002).

LECTURES

Lectured on eutrophication of natural waters, nutrient sources and related topics at the following locations:

Regional ACS Meetings in Chicago, IL; Minneapolis and Winona, MN; Kansas City, MO; Laramie, WY; Salt Lake City and Provo, UT; Idaho Falls, ID; Corvallis, OR; Richland, Spokane, and Pullman, WA; Bozeman and Missoula, MT; Omaha, NE; Sioux Falls, SD; Indianapolis, IN; La Crosse, Stevens Point, and Appleton, WI; Rhode Island, Maine, Vermont, and Central Mass., Arkansas Water Resources Association.

Universities: Montana State, Michigan, Puerto Rico, Rice, Minnesota, Wisconsin-Milwaukee, Northwestern, Oklahoma, Cornell, Georgia Institute of Technology, Manhattan College, Carleton College, University of North Dakota, Holy Cross, University of Wisconsin-Eau Claire, Utah State.

ISCHIA-Madison, Sanitary Engineering Conference, Wisconsin Northeast Section American Fish and Wildlife, Wisconsin Bureau of Weights and Measures.

OTHER LECTURES

<u>TOPIC</u>	<u>LOCATION</u>
Water Quality Problems in Dane County, Wisconsin	Village of Shorewood Hills, WI, University of Wisconsin-Extension, 1970
Factors Affecting Exchange of Materials between Sediments and Water	Clemson University, 1971
Water Quality Problems of Lake Superior	University of Wisconsin Lake Superior Study Group, 1971
Water Quality Problem of Madison Lakes	Monona Garden Club, Madison Capital Community Citizens, Madison Branch Sierra Club, 1970-72
Phosphorus, Water Quality and Eutrophication of Lake Michigan	Lake Michigan Enforcement Conference, 1972
Effect of Cooling Tower Blowdown on Receiving Water Quality	Lake Michigan Enforcement Conference, 1972
Effect of Taconite Tailings on Water Quality	LaCrosse-Winona ACS Section 1972 American Metals Society, Milwaukee, Wisconsin, 1972
Chemical Processes in Lake Sediments	Canada Centre for Inland Waters, Burlington, Ontario, 1972
Significance of Chemical Contaminants in Dredged Sediments	Texas A&M Dredging Seminar and Workshop, 1974 and 1976

Recent Changes in the Levels of Significance of Chemicals in Natural Waters	<p>Monsanto Chemical Co., 1973 Texas A&M University Dept. of Oceanography, 1973 Texas A&M Chapter American Fisheries Society, 1974 Texas A&M Naval Reserve, 1974 North Texas State University, 1974 Lamar State University, 1974 Arizona State University, 1974 Auburn University, 1974 University of Southern California, 1974 Texas Professional Engineers Society, 1975 Sam Houston State University, 1975 Southern Methodist University, 1975 CCIECCA-Mexico City, 1975 Grayson County College, 1976 American Society of Heating, Refrigeration and Air Conditioning Engineers, Dallas Chapter, 1976 Tokyo Metropolitan University, Japan, 1976</p>
The US Approach for Establishing Water Quality Criteria	Swiss Federal Institute of Technology, EAWAG, 1975
UTD Environmental Sciences Program	WHO Seminar, Mexico City, 1975
Significance of Contaminants in Great Lakes Dredged Sediments	Jacques Cousteau Society Involvement Day, Milwaukee, Wisconsin, 1976
Review of the OECD Eutrophication Program	NOAA Great Lakes Research Laboratory, Ann Arbor, Michigan, March 1977
Environmental Chemistry-Fate Screening Procedures for New Chemicals	Manufacturers' Chemists Association, Public Health and Environment, May 1977
Review of Results of US OECD Eutrophication Program	Shallow Lakes and Impoundments Workshop of the OECD Eutrophication Program, Seigburg, Germany, April 1977; Alpine Lakes Workshop, Zurich, Switzerland, April 1977
Significance of Detergents as a Cause of Water Quality Problems	Japanese Soap and Detergent Association, Tokyo, Japan, November 1977
Problems of Land Disposal of Industrial Wastes	ABC-TV AM America, November 1977
Significance of Hazardous Chemicals in Natural Waters	Colorado State University, February 1978
Impact of Organic Materials on the Transport of Contaminants from Industrial Waste Disposal Sites to Groundwater	US EPA Organic and Virus in Groundwater Workshop, Ada, Oklahoma, March 1978
Recent Changes in the Significance of Chemical Contaminants in Water	University of Miami, Oxford, Ohio, April 1978; Texas Christian University, Ft. Worth, Texas, April 1978; University of Florida-Gainesville, April 1978

Recent Work in the Development of Water Quality Criteria in the US	Norwegian Institute for Water Research, Oslo, Norway, June 1978
Application of the OECD Eutrophication Modeling Results for Nutrient Load Response Relationships in Deep Lakes	International Symposium on the Eutrophication of Deep Lakes, Gjovik, Norway, June 1978
Application of OECD Eutrophication Modeling Results to Spanish Impoundments	Association for Research for Detergency, Barcelona Spain, November 1978
Environmental Impact of Dredged Material Disposal	Texas A&M Dredging Short Course, January 1979
Modeling Nutrient Load Response Relationship for Lakes	University of Nevada, Water Quality Modeling Short Course, January 1979
An Approach for the Assessment of Impact of Mining Activities on Water Quality	Colorado School of Mines, Golden, Colorado, March 1979
Application of OECD Eutrophication Modeling to Lake Dillon, Colorado	Denver Water Department, May, 1979; Northwest Colorado Council of Governments, July 1979
Role of Biotransformation in Environmental Hazard Assessment	Hazard Assessment Workshop, Pellston, Michigan, August 1979
The Hazard Assessment Approach for Evaluating the Significance of Chemical Contaminants in Aquatic Systems	Colorado State University Department of Chemistry, October 1979
Significance of Chemical Contaminants in Aquatic Systems	University of Wyoming, November 1979
Impact of Dredged Material Disposal on Water Quality	Texas A&M Dredging Short Course, January 1980, 1981, 1982, and 1983
Significance of Chemical Contaminants in Affecting Water Quality in National Parks	National Park Service Research Service Center, Denver, Colorado, January 1980
Modeling-Eutrophication-Related Water Quality	University of Nevada Water Quality Modeling Workshop, Las Vegas, Nevada, January 1980, 1981, 1982
Significance of Chemicals in Aquatic Systems	USGS Research Seminar, Denver, Colorado, March 1980; CSU EH 446, Environmental Toxicology, November 1980
Environmental Engineering Aspects of Hazardous Waste Management	Colorado State University Seminar on Hazardous Waste Management, Waste Management, February 1981
Use of the Hazard Assessment Approach to Evaluate Water Quality and Pollution Control Impact of Contaminants on Beneficial Uses of Water	Wyoming Agency annual meeting, March 1981

Impact of Pueblo Domestic Wastewater Discharges on Water Quality in the Arkansas River	Channel 5, Pueblo, Colorado
Impact of Fort Collins' Domestic Wastewater Discharges on Water Quality in the Poudre River	Channel 7, Denver, Colorado
Water Quality Management in the Poudre River	Knights of the Round Table, Fort Collins, CO, March 1981
Application of OECD Eutrophication Modeling Results for Water Quality Management in Bureau Reservoirs	Short Course for Bureau of Reclamation Research Center, June 1981
Significance of Contaminants in Sediments	US EPA, Corvallis, Oregon, July 1981
Use of Hazard Assessment for Bioassay Interpretation	US EPA, Cincinnati, Ohio, Bioassays Short Course, August 1981
Hazard Assessment Approach for Evaluating the Environmental Significance of Chemical Contaminants	Rensselaer Polytechnic Institute, Department of Chemical and Environmental Engineering, September 1981
Recent Changes in the Perception of the Significance of Contaminants in US Waterways	Environmental Engineering Seminar, Louisiana State University, November 1981
The Use of OECD Eutrophication Study Results for Management of Water Quality Reservoirs, and The Development of Water Quality Criteria and Standards for Developing Countries	Ministry of Public Works, Center of Technology on the Use of Water, National Institute of Hydric Science and Technology, Buenos Aires, Argentina, November 1981
The Use of the Hazard Assessment Approach in Developing Corporate Environmental Policy	Union Carbide Speaker Series, March 1982
The Use of Hazard Assessment Approaches for Evaluating the Significance of Chemicals in Aquatic Systems	American Chemical Society Tour Speaker for the Dallas-Fort Worth "Heart 'O Texas" - Waco and San Antonio Sections, March 1982
Applications of US OECD Eutrophication Study Results to Managing Water Quality in Texas Reservoirs	North Texas State University Ecology Seminar, March 1982
The Use of a Hazard Assessment Approach to Evaluate the Significance of Chemicals in Aquatic Systems	Institute for Environmental Studies, Louisiana State University, April 1982
Hazard Assessment Approach for Evaluating the Significance of Contaminants in Aquatic Systems	Michigan State University, June 1982; Texas Tech University, August 1982
Development of Water Quality Standards in Developing Countries Using Hazard Assessment Approach	National University of Jordan, September 1982
Review of US OECD Eutrophication Study Results for Managing Water Quality in Lakes and Impoundments	National University of Jordan, September 1982

Recent Advances in Managing Eutrophication Water Quality in Reservoirs	Texas Tech University, Department of Civil Engineering Seminar, October 1982
Recent Advances in Assessing the Significance of Chemical Contaminants in Aquatic Systems	Texas Tech University, Department of Chemistry Seminar, January 1983
Hazardous Waste Management	Texas Tech University, Department of Civil Engineering Seminar, February 1983
Application of US OECD Eutrophication Study Results to South African's Impoundments (two-day workshop)	Water Research Commission of South Africa, Pretoria, South Africa, March 1983
Hazard Assessment Approaches for Determining the Water Quality Significance of Chemical Contaminants in Aquatic Systems	South African Institute for Water Pollution Control, March 1983
Recent Advances in the Approaches for Assessing the Water Quality Significance of Chemicals in Aquatic Systems	University of Natal, Pietermaritzburg and the University of the Orange Free State, Bloemfontein, South Africa, March 1983
Summary of the US OECD Eutrophication Study Results for Managing Excessive Fertilization in Natural Waters	Department of Water Affairs of South Africa, Pretoria, March 1983
Problems with Hazardous Waste Disposal in the United States and Texas	The South Plains Chapter of the Texas Society for Professional Engineers, April 1983
Development of Hazard Assessment Approaches for Chemicals in Aquatic Systems	US Army Construction Engineering Research Laboratory Environmental Division, Champaign, Illinois, May 1983
Significance of Contaminants in Aquatic Sediment	US Army Construction Engineering Research Laboratory Environmental Division, Champaign, Illinois, May 1983
Water Quality Management in Reservoirs	US Army Construction Engineering Research Laboratory Environmental Division, Champaign, Illinois, May 1983
Overview of Problems with RCRA in Providing Long Term Public Health Protection from Land Disposal of Hazardous Wastes	US Army Construction Engineering Research Laboratory Environmental Division, Champaign, Illinois, May 1983
Recent Advances in Assessing the Significance of Contaminants in Aquatic Systems	Midland-Odessa American Institute of Chemical Engineers Section meeting, September 1983
Problems in Managing Hazardous Wastes in the United States and Texas	Baylor University Department of Chemistry graduate seminar, September 1983
Workshop on Application of US OECD Eutrophication Status for Water Quality Management in Lakes and Reservoirs	SIL meeting, Lyon, France, August 1983

Short Course on Application of US OECD Eutrophication Modeling Results to Managing Water Quality in Argentine Impoundments	Buenos Aires, Argentina, October 1983
Hazard Assessment Approaches for Managing Water Quality	Department of Civil Engineering, Prairie View A&M University, November 1983
Three, one-week short courses on water quality modeling, significance of contaminants associated with sediments--environmental aspects of dredged sediment disposal, significance of contaminants in aquatic systems--hazard assessment approaches for management, and management of eutrophication related water quality in lakes, reservoirs and estuaries	United Nations Water and Power Research Station, Poona, India, December 1983
Recent Advances in Assessing the Significance of Chemical Contaminants in Aquatic Systems	Texas Tech University Sigma Xi Lecture, January 1984
Hazardous Waste Disposal: Problems with Current Approaches	American Chemical Society Lecture Tour; Dayton, Findley, Toledo, OH; Ft. Wayne, IN; Ypsilanti, Flint, Midland, MI; February 1984
Hazard Assessment Approaches for Evaluating the Significance of Chemicals in Aquatic Systems	University of Houston, Environmental Engineering Seminar, February 1984
Problems with Current Approaches for Hazardous Waste Disposal	TV Channel 12, Flint, Michigan; February 1984
Alternative Approaches for Hazardous Waste Disposal	TV Channel 5, Saginaw, Michigan; February 1984
Problems with Current Approaches for Hazardous Waste Management in the USA	Department of Civil Engineering, University of Utah, Salt Lake City, Utah, March 1984
Two-day Workshop, Approaches for Managing Hazardous Wastes	State of California Water Resources Control Board, April 1984
A Hazard Assessment Approach for Managing Chemical Contaminants in Aquatic Systems	Department of Civil & Environmental Engineering, New Jersey Institute of Technology, Newark, New Jersey, May 1984
Approaches for Managing Chemical Contaminants in Aquatic Systems	Departments of Civil Engineering, Land, Air and Water Resources, and Geology, University of California-Davis, June 1984
Water Quality Aspects of Dredged Sediment Dispersal	Texas A&M Ocean Engineering Short Course on Dredging, January 1985
Evaluation of Water Quality in the Proposed PORTE LIBERTE Development, Jersey City, NJ	Liberty State Park Commission Meeting, March 1985
Recent Changes in Evaluating the Significance of Chemical Contaminants in Aquatic Systems	Toxicology Seminar, University of Kentucky, March 1985

The NJIT Hazardous Waste Research Center	New Jersey Department of Environmental Protection, Trenton, New Jersey, 1985
Recent Advances in Assessing the Impact of Land Use on Water Quality in Lakes and Reservoirs	Coalition of Lake Associations of New Jersey, September 1985
Recent Advances in Assessing the Significance of Chemical Contaminants in Aquatic Systems	Departments of Chemistry and Biology Seminar at William Paterson College, October 1985
Use of Hazard Assessment Techniques to Establish Domestic and Industrial Wastewater Discharge Limits	AiChE Lecture Series on Waste Management, Nutley, New Jersey, November 1985
Water Quality Aspects of Dredged Sediment Disposal	Texas A&M University Dredging Short Course, January 1986
An Overview of New Jersey Coastal Water Quality Problems	Technical Committee of Association of Utilities of New Jersey, January 1986
New Jersey's Water Quality Problems	Northern NJ Chapter of ISCHIA Meeting, January 1986
The Use of Aquatic Toxicology in the Management of NJ Coastal Water Quality	Seventh Annual Toxicology Symposium, Montclair State College, April 1986
Cancer in Drinking Water	Delsea Manor, Glassboro, New Jersey, April 1986
Water Quality Health Effects	Association of Utilities of New Jersey Annual Meeting, Atlantic City, New Jersey, April 1986
The Need for Proper Closure of Sanitary and Hazardous Waste Landfills	NJ DEP Landfill Closure Seminar, Forgeate, New Jersey, May 1986
Hazardous Waste Treatment Facilities Effluent Treatment Requirements	Jacobs Engineering Hazardous Waste Management Seminar, June 1986
New Jersey's Coastal Water Quality Problems and Control Options	Monmouth and Mercer Counties Joint American Chemical Society Section, November 1986
Water Quality Problems in New Jersey	Essex County Professional Engineers Society Meeting, November 1986
Recent Advances in Hazardous Waste Management	Standard Oil of Ohio Research and Development-Environmental Division, December 1986
Recent Changes in Approaches for Establishing Water Quality Criteria	Johns Hopkins University Environmental Engineering Seminar, January 1987
Water Quality Aspects of Dredged Sediment Disposal	Texas A&M Dredging Short Course, College Station, Texas, January 1987
New Jersey's Marine Sciences Consortium Estuarine-Marine Water Quality Management Program	Fact Finding Seminar on Coastal Water Quality and Public Health, New Jersey Marine Sciences Consortium Seminar, April 1987

New Jersey Coastal Water Quality: Current Problems and Suggested Approaches for Management	Toms River, NJ Subsection of the Philadelphia Section of the American Chemical Society, April 1987
Management of Excessive Fertilization in Lakes and Reservoirs	Institute of Ecology of the Volga River Basin, Togliatti, USSR, May 1987 (two-day short course)
Management of Groundwater Quality Associated with Land Disposal of Municipal, Industrial and Agricultural Wastes	Institute of Ecology of the Volga River Basin, Togliatti, USSR, May 1987 (one-day short course)
Approaches Used for Management of Water Quality in the USA with Particular Reference to Industrial Wastewater Discharges	Institute of Limnology, Leningrad, USSR, May 1987 (three-hour lecture)
Water Quality Problems in NJ Coastal Waters	NJ Marine Science Consortium Elderhostel Program Seaville, New Jersey, September 1987
The Condition of New Jersey's Coastal Waters	Ocean Disposal: Methods, Impacts and Solutions Symposium, Toms River, New Jersey, October 1987
Role of Phosphorus in Excessive Fertilization of New Jersey's Coastal Waters	NOAA Sea Grant Site Visit, January 1988
Series of lectures on various aspects of water quality and solid and hazardous waste management	Ebasco-Envirosphere, Lyndhurst, New Jersey, December 1987, January, February 1988
Assessing the Water Quality Significance of Chemical Contaminants in Aquatic Systems	Fondation de l'eau, Limoges, France, February 1988
Managing Water Quality in Water Supply Reservoirs	Centre de Recherche de la Compagnie Generale des Eaux, Maisons-Laffitte, France, February 1988
Hazardous and Solid Waste Disposal: Problems with Current Approaches	Indiana State University Wabash Valley American Chemical Society Section Meeting, Terre Haute, Indiana, April 1988 Indiana-Kentucky ACS Section Meeting, Henderson, Kentucky, April 1988
Recent Advances in Evaluating the Water Quality Significance of Chemical Contaminants	Louisville, KY ACS Section Meeting, Louisville, Kentucky, April 1988
Water Quality and Solid Hazardous Waste Management	Ebasco Services Inc. staff development seminars, 26 lectures, Lyndhurst, New Jersey, November 1988 - January 1989
Water Quality Significance of Chemical Contaminants in Dredged Sediments	Dredging Workshop Texas A&M University, January 1989
New Jersey Coastal Water Quality Problems	NJIT Teaching Environmental Issues workshop, January 1989

Summary of NJ Coastal Water Quality Problems and Approaches for their Solution	Alliance for NJ Environmental Education, January 1989
Solid and Hazardous Waste Management: Problems with Current Approaches	American Chemical Society lecture tour (5 lectures) in Missouri and Illinois, March 1989
An Overview of New Jersey Coastal Water Quality Problems	Pi Tau Sigma NJIT honorary mechanical engineering scholastic society annual banquet, May 1989
Development of a Lake Water Quality Management Program	Workshop for NJ Coalition of Lake Association Meeting, Cranberry Lake, New Jersey, June 1989
Recent Advances in Assessing the Water Quality Significance of Chemical Contaminants in Aquatic Systems	Seminar at University of Alabama, Department of Civil Engineering, Tuscaloosa, Alabama, July 1989
Evaluation of the Significance of Chemical Contaminants in Aquatic Systems	EG&G DOE Idaho National Engineering Laboratory Idaho Falls, Idaho, August 1989
Water Quality Significance of Chemical Contaminants in Dredged Sediments	Dredging Workshop Texas A&M University, January 1990
Approaches for Evaluation of the Water Quality Significance of Chemical Contaminants in Aquatic Systems	Seminar at Department of Chemistry, San Francisco State University, February 1990
Potential Public Health and Environmental Problems of San Diego North County Proposed Landfills	Public meeting Warner Springs, California, March 1990
An Overview of New Jersey Coastal Water Quality Problems and Approaches for their Solution	Public lecture, Rider College, New Jersey, April 1990
New Jersey Solid Waste Management Crisis	Marine Sciences Seminar, Rider College, New Jersey, April 1990
Public Health and Environmental Problems of the Proposed Expansion of the Azusa Landfill	Los Angeles County Medical Society Environmental Health Committee, April 1990
Water Quality Aspects of Dredging and Dredged Sediment Disposal	Texas A&M University Dredging Engineering Short Course, College Station, Texas, three-hour workshop, January 1991
Solid Waste Management: Problems with Current Approaches	American Chemical Society Lecture Tour (3 lectures), North Carolina and Virginia, February 1991
Recent Advances in Assessing the Water Quality Significance of Chemical Contaminants	American Chemical Society Lecture Tour (3 lectures), North Carolina and Virginia, February 1991
Landfills and Groundwater Quality Protection	State of California Integrated Waste Management Board staff, one day short course, Sacramento, California, February 1991

Landfills and Groundwater Quality Protection	Department of Chemistry Seminar, San Francisco State University, March 1991
Landfills and Groundwater Quality Protection	University Extension, University of California, Davis, one day short course, Sacramento, California, April 1991
Review of the Adequacy of Southern Pacific Superfund Site Investigation and Remediation Relative to Redevelopment Plans	Sacramento Planning Commission, April 1991
Seminar series on water quality management, water quality criteria and standards development, assessing the water quality impacts of municipal and industrial wastewater discharges, managing water quality in lakes and reservoirs, evaluating the water quality significance of contaminants in sediments and solid and hazardous waste mgmt	One week international seminar, Medellin, Colombia, September 1991
Recent Advances in Assessing the Water Quality Significance of Chemical Contaminants	American Chemical Society Lecture Tour (4 lectures), Rocky Mountain States, October 1991
Unsaturated Groundwater Quality Monitoring at Landfills	Presentation at a California Groundwater Association seminar, Lake Tahoe, Nevada, November 1991
Water Quality Aspects of Dredging and Dredged Sediment Disposal	Workshop at the Texas A&M University Dredging Engineering Short Course, College Station, Texas, January, 1992
Evaluation of the Significance of Soil Lead Residues	Seminar, San Francisco State University, Chemistry Department, San Francisco, California, April 1992
Environmental Standards: Their Development and Use and Municipal Solid Waste Management: The Need for Alternative Approaches to 'Dry Tomb' Landfills	Environmental seminars at University of California, Davis, University Extension, May 1992
Municipal Solid Waste Management: An Approach for Groundwater Quality Protection	Association of Environmental Geologists, Sacramento Section, May 1992
Water Quality Management: Problems with Current Approaches" and "Municipal Solid Waste Management: Problems with Current Approaches	Environmental Leadership Seminar, University of California, Davis University Extension, Davis, California, May 1992
Groundwater Quality Protection from Municipal Landfills	One-day Short Course, University Extension, University of California, Los Angeles, Los Angeles, October 1992
Groundwater Quality Protection from Municipal Landfills	One-day Short Course, American Water Resources Association Int. meeting, Reno, Nevada, November 1992

Groundwater Quality Protection from Municipal Landfills	One-day Short Course, University Extension, University of California, Berkeley, San Francisco, CA, University of California, Santa Barbara, Ventura, CA (November 1992), and American Society of Civil Engineers, New York City, NY and Atlanta, GA, (January, 1993) and Chicago, IL, September 1993
Water Quality Aspects of Dredging and Dredged Sediment Disposal	Three-hour Workshop at the Texas A&M University Dredging Engineering Short Course, College Station, Texas, January 1993
Cost-Effective Water Pollution Control in Mining	Short Course on Integrated Mining and Land Reclamation Planning, Nevada Institute of Technology, Reno, NV, April 1993
Evaluating Water Quality Significance of Chemical Contaminants in Aquatic Systems	American Chemical Society lecture tours, Tennessee, (March 1993) and Connecticut, New York, New Jersey and Delaware, October 1993
Landfills and Groundwater Quality Protection Issues	Short Course at AWRA conference on Innovation in Groundwater Management, Tucson, Arizona, August 1993
Landfills and Groundwater Quality Protection Issues	Short Course sponsored by American Society of Civil Engineers, Seattle, Washington, 1993
Effect of Eutrophication on Fisheries	Dept. of Fisheries Seminar, University of California, Davis, California, November 1993
Water Quality Aspects of Dredging and Dredged Sediment Disposal	Three-hour workshop at the Texas A&M University Dredging Engineering Short Course, College Station, Texas, January 1994
Water Quality Criteria for Metals	Water Issues in 1994: The Road to CWA Reauthorization, Executive Enterprises Seminar, San Francisco, California, February 1994
Sediment Quality Criteria	Water Issues in 1994: The Road to CWA Reauthorization, Executive Enterprises Seminar, San Francisco, California, February 1994
Landfills as Chemical Systems: Problems with Current Approaches for Solid Waste Disposal	American Chemical Society lecture tour, Georgia, March 1994
Management of Carcinogens in Municipal Water Supplies: Problems with Current Approaches	American Chemical Society lecture tour, Georgia, March 1994
Management of Chemical Contaminants in Aquatic Systems: Problems with Current Approaches	American Chemical Society lecture tour, South Carolina, North Carolina, March 1994
Management of Chemical Contaminants in Aquatic Systems: Problems with Current Approaches	American Chemical Society lecture tour, Oshkosh, Wisconsin and Duluth, Minnesota, September 1994

Landfills as Chemical Systems: Problems with Current Approaches for Solid Waste Disposal	American Chemical Society lecture tour, La Crosse, Wisconsin, Houghton, Michigan, September 1994
Landfills and Groundwater Quality Protection Issues	One-day short-course, Blue Ridge Environmental Defense League, Wadesboro, North Carolina, March 1994
Dry Tomb vs. Wet Cell Technology for Landfilling of Municipal Solid Wastes	State of Georgia Environmental Protection Division, Land Protection Branch, Atlanta, Georgia, March 1994
Landfills: Past, Present and Future	The Landfill and the Law Seminar, Ecology Law Quarterly, University of California, Oakland, California, April 1994
Water Quality Impacts of Dredging Sediment Disposal	Texas A&M Dredging Engineering Short Course, College Station, Texas, January 1995
California Comparative Risk Project	Mother Lode Chapter of the Air and Waste Management meeting, Sacramento, California, March 1995
Sediment Quality Evaluation and Management: Sediment Quality Criteria and Standards	Two-day short course organized by Environmental Education Enterprises, Inc. (E ³), San Francisco, California, April 1995
Recommended Changes in Mexico's Hazardous Waste Regulations	Presentation at Foro Ciudadano Sobre Desechos Toxicos, San Luis Potosi, Mexico, August 1995
Overview of the Adequacy of the LEHR National Superfund site Investigation and Remediation	Davis South Campus Superfund Oversight Committee Town Meeting, Davis, CA, 1995
Evaluation of the Potential Public Health and Environmental Problems of Metro Toronto's Proposed Development of the Adams Mine Site as an MSW Landfill	Public Liaison Committee meeting, Kirkland Lake, Ontario, Canada, December 1995
Water Quality Aspects of Dredged Sediment Disposal	Texas A&M University Dredging Workshop, January 1996
Evaluation of the Water Quality Significance of Chemically Contaminated Sediments in Dredged Material Management	Two-day short course, Hong Kong, March 1996
Sediment Quality Evaluation and Management: Sediment Quality Criteria and Standards	Three-day short course organized by Environmental Education Enterprises, Inc. (E ³), Seattle, Washington, April 1996
Minimum Landfilling Regulations: Problems with Implementation	San Jose State University, Environmental Engineering seminar, March 1996
Inadequacies of the Board Staff's Proposed WDRs for the University of California, Davis Campus Wastewater Discharge Permit to Putah Creek	Central Valley Regional Water Quality Control Board, June 1996

Adequacy of LEHR Superfund Site Investigation and Remediation	Davis South Campus Superfund Oversight Committee town meeting, Davis, California, October 1996
Water Quality Aspects of Dredging	Texas A&M University, January 1997
Potential Problems of the Western Regional Sanitary Landfill	Central Valley Regional Water Quality Control Board, January 1997
Evaluation Monitoring for the Sacramento River Watershed	Sacramento River Watershed Toxics and Monitoring Subcommittees, Sacramento, California, February 1997
Inadequacies of the Board Staff's Proposed WDRS for the University of California, Davis Campus Wastewater Discharge Permit to Putah Creek	Central Valley Regional Water Quality Control Board, August 1997
Municipal Landfills as Chemical Systems; Problems with Current Landfilling Approaches, and Carcinogens in Domestic Water Supplies	American Chemical Society Lecture Tour, Kentucky and Indiana (five cities), September 1997
Update on the LEHR Superfund site Investigation Remediation	Davis South Campus Superfund Oversight Committee Town Meeting, Davis, CA, October 1997
Organophosphate Pesticide Toxicity in Upper Newport Bay, California Watershed	CA State Stormwater Task Force Meeting, November 1997
Update on the Adequacy of LEHR Superfund Site Investigation and Remediation	DSCSOC Public Meeting on the LEHR Superfund Site, 1998
The TMDL Process for Water Quality Management	California Ground Water Association, 1998
Municipal Landfills as Chemical Systems, Problems with Current Landfilling Approaches, Carcinogens in Domestic Water Supplies and Water Quality Impact of Urban Stormwater Runoff	American Chemical Society Lecture Tour, Texas Coastal Area, October 1999
Review of the City of Stockton Stormwater Runoff Aquatic Life Toxicity Studies	Presentation at the Urban Pesticide Committee in November 2001
Overview of the US EPA Investigation of the Lava Cap Mine Superfund site	Presentation at US EPA workshop, Nevada City, CA, 2002
Update on the Adequacy of LEHR Superfund Site Investigation and Remediation	DSCSOC Public Meeting on the LEHR Superfund Site, 2002
Improving the Quality of Superfund Site Investigation and Remediation II: Problems with Onsite Landfilling	Presentation at US EPA national Technical Assistance Grant Advisors' Workshop, Albuquerque, NM, February 28, 2003

Review of the Lava Cap Mine NPL Superfund Site

Presentation at the California Department of Conservation Abandoned Mine Lands Forum, Sacramento, CA, May 15, 2003

Nutrient Total Maximum Daily Loads and Implementation of Management Practices

Presentation at the Univ. of California Agricultural and Natural Resources Surface Water Quality Research in Agriculture, Woodland, CA, March 1, 2005

Use of the Vollenweider OECD Eutrophication Study Results for Evaluation of Appropriate Phosphorus Loads to Lakes and Reservoirs

Presentation to the Central Valley Regional Water Quality Control Board Staff, Rancho Cordova, CA, March 8, 2005

Evaluation of the Expected Performance of the Waste Management Pottstown Landfill Containment and Monitoring Systems for as Long as the Wastes in the Landfill Will be a Threat

Presentation to the Pottstown Landfill Closure Committee, Pottstown, PA, June 1, 2005

PRESENTATIONS AT CONFERENCES

<u>TOPIC</u>	<u>LOCATION</u>
Chlorination of Phenol	ACS Meeting, Atlantic City, NJ, 1959
Invited Discussor - Chemistry of Iron and Manganese	Second International Conference on Pollution in Natural Waters Research, Tokyo, Japan, 1964
Chlorophenolic Tastes and Odors	Rudolph's Conference, Rutgers University, 1965
Role of Organisms in the Chemistry of Natural Waters	ACS Meeting, Pittsburgh, PA, 1967
Water Chemistry Education	AWWA Meeting, Cleveland, OH, 1968
Invited Discussor - ISCHIA Conferences, Effect of Impoundments on Water Quality	Portland, OR, 1968
Invited Discussor - Analytical Chemistry of Plant Nutrients	Gordon Conference on Water Quality, 1969
Factors Affecting the Exchange of Materials between Sediments and Water	ACS Meeting, New York, NY, 1969
Panel - Water Quality Problems of the Great Lakes	Water Pollution Control Federation Meeting, 1970
Invited Discussor - Effect of Organics in the Inorganic Composition of the Sea	Gordon Conference on Marine Chemistry, 1970
Role of Man in Influencing the Flux of Nitrogen and Phosphorus to Natural Waters	International Geochemistry and Oceanography Conference, Tokyo, Japan, 1970
Water Chemistry in the Sea Grant Program at University of Wisconsin	ACS Meeting - Houston, TX, 1971
Thermal Standards for Lake Michigan	AVA-ANL Nuclear Engineering Conference, Argonne, IL, 1971
Future Water Quality of the Great Lakes	Great Lakes Fishery Commission, Minneapolis, MN, 1971
Chemical Aspects of Lake Restoration	AAAS, Chicago, IL, 1971
Effect of Marshes on Water Quality	International Ecological Association, Leningrad, Russia, 1971
Role of Phosphorus in Eutrophication	ACS Meeting - Los Angeles, 1971; International Symposium on Phosphorus, England, 1972
Chemical Aspects of Bioassay Techniques for Water Quality Standards	ACS, Washington, D.C., 1972

A Biological Evaluation of Molybdenum Blue Method for Phosphate Analysis	International Society for Limnology, Leningrad, Russia, 1972
The Analytical Chemistry Needs of the Environmental Scientist	Conference on Analytical Chemistry in Nuclear Technology, Gatlinburg, TN, 1972
Role of Thermal Discharges on Chemical Parameters of Water Quality and Eutrophication	International Symposium for Identification and Measurement of Environmental Pollutants, Ottawa, Canada, 1972
Significance of Trace Metals in Natural Waters	Minnesota Chapter, American Fisheries Society, 1972
Analytical Methods for Organics in the Sea	Gordon Research Conference on Chemical Oceanography, 1972
Significance of Phosphate as a National Water Quality Problem	Walter Cronkite, CBS Evening News, 1972
Potential Problems of Land Disposal of Domestic Wastewaters	Environmental Engineers Conference, Montana State University, 1973
Role of the Thermocline in Controlling Blue-Green Algal Blooms	Eutrophication Process Modeling Workshop, Utah State University, 1973
The Specific Features of Warm Lake Watersheds which Influence Lake Productivity	Israel Scientific Research Conference on Interaction between Hydrographic, Physical and Biological Factors in Warm Lakes, Tiberias, Israel, 1973
The Role of Interstitial Water in Lake Nutrient Cycles	Israel Scientific Research Conference on Interaction between Hydrographic, Physical and Biological Factors in Warm Lakes, Tiberias, Israel, 1973
Environmental Chemistry Education	Eastern Analytical Symposium, New York, 1973
Great Lakes Water Quality Monitoring Strategy	CIC-CCIW Symposium on Water Quality Parameter Selection, Measurement and Monitoring, Burlington, Ontario, 1973
Role of Hydrous Metal Oxides in Transport and Transformation of Heavy Metals in Natural Waters	International Symposium on Heavy Metals in the Environment, Vanderbilt University, 1973
Role of Man in Affecting Water Quality in Impoundments	Texas Academy of Sciences, 1974
Environmental Models for Screening New Pesticides	American Chemical Society, Los Angeles, 1974
Algal Nutrient Limitation in Lake Ontario and Tributary Waters	Great Lakes Research Conference, Hamilton, Ontario, 1974
Nitrogen and Phosphorus Availability in Lake Ontario Tributary Waters	Great Lakes Research Conference, Hamilton, Ontario, 1974

Relationship between the Chemical Characteristics of Cooling Tower Blowdown and US EPA Effluent Guidelines and Water Quality Standards	ISCHIA Conference, Houston, TX, 1975
Methods for Assessing Factors Limiting Algal Growth and Available Nutrients in Natural Water Systems	Texas Academy of Sciences, 1975
Role of Dredging in Altering the Significance of Chemical Contaminants in Sediments in US Estuarine Water Quality	US EPA Conference on Pollution of US Estuaries, 1975
Dredged Material Disposal Criteria	Pacific Coast Dredging Conference, 1975
Dredged Material Disposal Criteria for the Great Lakes	ISCHIA-US EPA Second National Conference on Water Re-use, 1975
Leaching and Bioassay Studies of the Significance of Heavy Metals in Dredged Sediments	International Conference on Heavy Metals in the Environment, Toronto, Canada, 1975
The US OECD-Eutrophication Program	OECD Eutrophication Workshop, Vienna, Austria, 1975
Results of US OECD Eutrophication Studies	OECD Eutrophication Workshop, Vienna, Austria, 1975
Problems and Approaches in Assessing Nutrient Loads for Lakes and Impoundments	OECD Eutrophication Workshop, Vienna, Austria, 1975
Evaluation of the Factors Influencing the Results of the Elutriate Test for Dredged Material Disposal Criteria	Chemical Congress of North America, Mexico City, 1975
Development of the Elutriate Test for Evaluation of Pollutational Tendencies of Dredged Sediments	ISCHIA Specialty Conference on Environmental Impact of Dredging, Mobile, AL, 1976
Evaluation of the Impact of Chemical Contaminants in Dredged Sediments	World Dredging Association Meeting, San Francisco, CA, 1976
Significance of Sediment Phosphorus in Lake Sediments	SIL/UNESCO Symposium on Interaction between Fertilization and Water, Amsterdam, The Netherlands, 1976
Impact of Taconite Tailings Discharged on Dissolved Solids in Lake Superior	SIL/UNESCO Symposium on Interaction between Sediments and Water, Amsterdam, The Netherlands, 1976
Significance of Contaminants in Dredged Sediments	SIL/UNESCO Symposium on Interaction between Sediments and Water, Amsterdam, The Netherlands, 1976
Significance of Chemicals in Texas Coastal Dredged Sediments	ACS Regional Meeting, Ft. Worth, TX, 1976

Significance of Sediment-Associated Contaminants	ASTM Meeting on Evaluation of Potential Hazards of Chemicals to the Environment, Memphis, TN, 1976
An Approach for the Control of Eutrophication of the Italian Coastal Waters of the Adriatic Sea	International Symposium, Eutrophication Phenomenon of the Coastal Waters of the Adriatic Sea, Bologna, Italy, February 1977
Comments on the Applicability of US EPA Water Criteria for State Water Quality Standards	Water Pollution Control Federation Meeting, Philadelphia, PA, October 1977
Interpretation and Significance of Chemical Water Quality Data	ASTM Aquatic Toxicology Symposium, Cleveland, OH, November 1977
Chemical Agents of Potential Health Significance for Land Disposal of Municipal Wastewater Effluents and Sludges	Symposium on Risk Assessment and Health Effects of Land Application of Municipal Wastewater and Sludges, University of Texas - San Antonio, December 1977
Application of OECD Eutrophication Study Results to Deep Lakes	Symposium on Eutrophication of Deep Lakes, Oslo, Norway, June 1978
Application of OECD Eutrophication Models to Great Lakes Water Quality	ISCHIA National Symposium, Boston, MA, April 1979
Assessment of Available Phosphorus in the Great Lakes	Conference on Phosphorus Management Strategy for the Great Lakes, Rochester, NY, April 1979
Application of OECD Eutrophication Models to Estuaries	Symposium on Eutrophication of Estuaries, Williamsburg, VA, May 1979
Modeling Nutrient Load Eutrophication Response Water Supply Reservoirs	American Water Works Association National Meeting, San Francisco, CA, June 1979
A Hazard Assessment Approach for Interpretation of Effluent Bioassays	American Water Resources Association National Meeting, September 1979
Role of Environmental Chemistry-Fate Modeling in Aquatic Hazard Assessment	ASTM Aquatic Toxicology Symposium, Chicago, October 1979
Management of Water Quality in Urban Lakes	US EPA Symposium on Impact of Combined Sewer Overflow and Urban Stormwater Drainage, Orlando, FL, November 1979
Application of OECD Eutrophication Modeling Results to Lakes and Impoundments Eutrophication-related Water Quality Management	Conducted short courses: Little Rock, AR, March 1980 Madrid, Spain, May 1980
Use of Hazard Assessment Approach for Evaluation of the Water Quality Significance of Chemical Contaminants	Rocky Mountain Water Pollution Control Association, Denver, CO, May 1980
Use of the Results of the OECD Eutrophication Study for Management of Eutrophication-Related Water Quality in Reservoirs	Symposium on Surface Water Impoundments, ISCHIA <u>et al.</u> , Minneapolis, MN, June 1980

Co-authored Poster Session Presentation with B. Newbry and R. A. Jones, "Application of Eutrophication Modeling Approach for TVA Impoundments"	Symposium on Surface Water Impoundments, OECDASCE <u>et al.</u> , Minneapolis, MN, June 1980
Co-authored Poster Session Presentation with J. Ortiz and R. A. Jones, "Nutrient Load - Eutrophication Response Relationships for Spanish Impoundments"	Symposium on Surface Water Impoundments, ISCHIA <u>et al.</u> , Minneapolis, MN, June 1980
Application of OECD Eutrophication Modeling Results to Water Quality Management for Lake Ray Hubbard, Texas	American Water Works Association National Meeting, Atlanta, GA, June 1980
Problems with Implementation of US EPA Water Quality Criteria into State Water Quality Standards	US EPA Symposium on the Development, Use, and Value of Water Quality Criteria and Standards, Washington, D.C., June 1980
Water Quality Problems in Oil Shale Energy Development	DOE Symposium, Oil Shale: The Environmental Challenges, Vail, CO, August 1980
Alternative Approach to Assessing Water Quality Impact of Wastewater Effluents	National Meeting of Water Pollution Control Federation, Las Vegas, NV, October 1980
Application of the Hazard Assessment Approach to Municipal Wastewater Chlorine and Ammonia	Fifth Symposium on Aquatic Toxicology, ASTM, Philadelphia, PA, October 1980
Development of a Leaching Test for Hazardous Wastes	ASTM, Hazardous Waste Symposium, Fort Lauderdale, Florida, January 1981
Application of OECD Eutrophication Modeling Approach to Water Quality Management in Colorado Front Range Reservoirs	Colorado Water Quality Analyst Association Annual Meeting, Denver, CO, May 1981
Impact of Domestic Wastewater Chlorine Discharges on Water Quality for Colorado Front Range Streams	Colorado Water Quality Analyst Association Annual Meeting, Denver, CO, May 1981
Environmental Significance of Pesticide Residue Associated with Sediments	Proceedings International Congress on Soil Pollution and Protection from Pesticide Residues, Zagazig University, Egypt, August 1981
Role of Water Chemistry in Measuring Toxicity: Translation of Laboratory Results to Field Situations	ASTM Sixth Annual Aquatic Toxicology Symposium, St. Louis, MO, October 1981
Studies on the Water Quality Hazard of Domestic Wastewater Treatment Plant Chlorine	Fourth Conference on Water Chlorination, Environmental Impact and Health Effects, Monterey, CA, October 1981
Environmental Chemistry-Fate Modeling of Chloramines in Colorado Front Range Rivers	Fourth Conference on Water Chlorination, Environmental Impact and Health Effects, Monterey, CA, October 1981

An Approach for Evaluation of the Potential Significance of Chemical Contaminants in Aquatic Habitat Assessment	Symposium on Acquisition and Utilization of Aquatic Habitat Inventory Information, American Fisheries Society, Portland, OR, October 1981
Water Quality Aspects of Dredged Material Disposal in the Gulf of Mexico near Galveston, TX	Fourteenth Dredging Seminar held in New Orleans, LA, Texas A&M University, College Station, TX, November 1981
A Review of the Current Status of Knowledge of the Hazard that Phosphorus Represents in the Environment, and Chairman, Session on Environmental Chemistry-Fate	Society for Environmental Toxicology and Chemistry, Washington, D.C., November 1981
The Use of US OECD Eutrophication Study Results in Managing Water Quality in Existing and Proposed Reservoirs	World Federation of Engineering Organizations' First World Congress on Engineering and the Environment, Buenos Aires, Argentina, November 1981
The Use of Hazard Assessment Approaches for Establishing Point Source Discharge Limits for Domestic Wastewaters	US EPA-US Industry Workshop on Application of Hazard Assessment Principles to Establishing Point Source Discharge Limits for Complex Effluents, Cody, WY, August 1982
The Use of the Tiered Hazard Assessment Approach for Estimating Marine Pollution Impacts	NOAA Workshop on Meaningful Measures of Marine Pollution Effects, Pensacola Beach, FL, April 1982
Application of Hazard Assessment Principles for Determining Industrial Wastewater Discharge Limits	ISCHIA Annual Meeting, Cleveland, OH, August 1982
Water Quality Monitoring at Hazardous Waste Disposal Sites: Is Public Health Protection Possible?	National Water Well Association Meeting, Columbus, OH, May 1983
Problems of Establishing New Hazardous Waste Disposal Sites in Providing Long-Term Public Health Safety	Missouri Waste Management Conference, Columbia, MO, July 1983
Workshop on Application of US OECD Eutrophication Status for Water Quality Management in Lakes and Reservoirs	SIL Meeting, Lyon, France, August 1983
Predicting Water Quality in Proposed Hydropower Impoundments	Water Power 83 Conference, Knoxville, TN, September 1983
The Use of Hazard Assessment Approaches for Marine Water Quality Management	Indian International Ocean Engineering Conference, Poona, India, December 1983
Water Quality Management in the Yellowhouse Canyon Lakes - A Domestic Wastewater Reuse Project	"Water in the 21st Century: Will It Be Better?" SMU, Dallas, TX, April 1984
Water Quality Significance of Chemical Contaminants on Aquatic Sediments - A Perspective	Workshop on Evaluating the Water Quality Significance of Sediment Associated Contaminants, Colorado, 1984

Evaluating the Water Quality Significance of Dredged Proc Sediments	Dredging and Dredged Material Disposal, ISCHIA Symposium, New York, NY, 1984
Why is it Necessary to be Conservative in Hazardous Waste Disposal?	Delaware-Hudson Chapter Society for Environmental Toxicology and Chemistry Hazardous Waste Management Symposium, New Brunswick, NJ, March 1985
Poster Session, Landfill Leachate Recycle	Delaware-Hudson Chapter Society for Environmental Toxicology and Chemistry Hazardous Waste Management Symposium, New Brunswick, NJ, March 1985
Poster Session, Modeling the Transport of Contaminants in Groundwaters	Delaware-Hudson Chapter Society for Environmental Toxicology and Chemistry Hazardous Waste Management Symposium, New Brunswick, NJ, March 1985
Chairman, Hazardous Waste Site Assessment and Remediation	Action HazPro 85 Symposium, Baltimore, MD, May, 1985
Evaluation of the Effectiveness of Phosphorus Removal from Domestic Wastewaters on the Eutrophication of Receiving Waters	International Conference on Management Strategies for Phosphorus in the Environment, Lisbon, Portugal, July 1985
An Approach for Evaluating the Effectiveness of Detergent Phosphate Bans on Water Quality	International Conference on Management Strategies for Phosphorus in the Environment, Lisbon, Portugal, July 1985
Member, Panel, Site Remediation, California Water Resources Control Board Workshop	San Diego, CA, September 1985
Toxic Chemicals in New Jersey's Coastal Waters	NJ Acad. of Science Annual Meeting, Stockton, NJ, April 1986
Chairman, New Jersey Academy of Sciences Symposium on NJ Coastal Water Quality Problems	Stockton, NJ, April 1986
Problems in Implementing US EPA and State of New Jersey Water Quality Criteria and Standards	Hudson-Delaware Chapter Society for Environmental Toxicology and Chemistry, New Brunswick, NJ, May 1986
Assessment of the Degree of Treatment Required for Toxic Wastewater Effluents	International Conference Innovative Biological Treatment of Toxic Wastewaters, Arlington, VA, June 1986
Remediation of Town Gas Waste Residue Sites	Symposium In-Situ Treatment and Immobilization of Hazardous and Radioactive Wastes, Knoxville, TN, June 1986

Assessing the Potential Groundwater Hazard of Disposal of Radium Containing Waste Solids by Soil Blending	National Water Well Association Conference Radon, Radium and Other Radioactivity in Ground Water: Hydrogeologic Impact and Application to Indoor Airborne Contamination, Somerset, NJ, April 1987
Assessing the Need for Phosphorus Removal from Domestic Wastewaters	Water Pollution Control Federation national meeting, Philadelphia, PA, October 1987
Overview of North American Approaches for Control of Surface Water Excessive Fertilization	Colloque International, "Phosphates, Eau et Qualité de la Vie," Paris, France, February 1988
Significance of Ammonia as a Toxicant in Hudson/Raritan Estuary Sediments	Water Pollution Control Federation National meeting, Dallas, TX, October 1988
Management of Eutrophication-Related Water Quality in NJ Lakes	NJ Academy of Sciences Annual Meeting, April, 1989 (invited)
Management of Excessive Fertilization in NJ Nearshore Marine Waters	NJ Academy of Sciences Annual Meeting, April 1989 (invited)
Overview of NJ Coastal Water Quality Problems and Approaches for their Management	NJ Water Pollution Control Association Annual Meeting, May 1989 (invited)
Managing the Excessive Fertilization in New Jersey's Coastal Waters	1989 Conference on the State of Our Coastal and Ocean Resources, New York City, May 1989
Approaches for Evaluation of the Water Quality Significance of Chemical Contaminants in Aquatic Systems	Department of Chemistry Seminar, San Francisco State University, San Francisco, CA, February 1990
An Overview of New Jersey Coastal Water Quality Problems and Approaches for Their Solution	Rider College public lecture, Trenton, NJ, April 1990
New Jersey Solid Waste Management Crisis	Marine Sciences Seminar, Rider College, Trenton, NJ, April 1990
Public Health and Environmental Problems of the Proposed Expansion of the Azusa Landfill	Los Angeles County Medical Society Environmental Health Committee, Los Angeles, CA, April 1990
Groundwater Quality Protection from Landfills Two-Hour Workshop	Fourth National Outdoor Action Conference on Aquifer Restoration, Ground Water Monitoring and Geophysical Methods organized by the National Water Well Association, May 1990
Evaluation of the Water Quality Significance of Sediment Associated Contaminants in Dredging Projects	Western Dredging Association Conference, Ventura, CA, August 1990
Protection of Groundwater Quality from Landfills	National Water Well Association Shallow Groundwater Symposium, Anaheim, CA, September 1990

Evaluation of the Potential Impacts of Municipal Landfills Located in Canyon Headwater Areas on Surface and Groundwater Quality	University of California Water Resources Center Third Biennial Conference on "California Watersheds at the Urban Interface," Riverside, CA, October 1990
Evaluation of the Impact of Urbanization of a Forested Watershed on Eutrophication-Related Water Quality - With Particular Reference to Lake Tahoe	University of California Water Resources Center Third Biennial Conference on "California Watersheds at the Urban Interface," Riverside, CA, October 1990
Suggested Approach for Assessing Water Quality Impacts of Urban Stormwater Drainage	"Urban Hydrology" Symposium Organized by American Water Resources Association, 26th National Conference, Denver, CO, November 1990
Domestic Water Supply Water Quality: Control at the Source	University of California Water Resources Center Conference, Sacramento, CA, April 1991
Inland Waters Bays and Estuaries Plans - Water Quality Objectives: Problems with Proposed-Adopted Approaches	California Water Pollution Control Association Conference, Pasadena, CA, April 1991
An Approach for Cost-Effective Management of Contaminants in the American River System	1991 American River Conference, Sacramento, CA, June 1991
Indirect Re-Use of Domestic Wastewater for Recreational Lakes, Case Study: Lubbock, Texas	American Water Resources Association Conference, "Water Supply and Water Reuse: 1991 and Beyond," San Diego, CA, June 1991
Evaluation of the Adequacy of Site Remediation for Redevelopment	National Water Well Association Conference, "Environmental Site Assessments Case Studies and Strategies," Columbus, OH, July 1991
Impact of the California Drought on Source Water Supply Water Quality	California/Nevada American Water Works Association annual fall meeting, Anaheim, CA, October 1991
Sediment Quality Criteria Development: Problems with Current Approaches	HMCRI National R & D Conference on the Control of Hazardous Materials, San Francisco, CA, February 1992
Evaluation of the Public Health and Water Quality Significance of Soil Lead Residues: The Need for Biogeochemistry Understanding	Geochemical Division, American Chemical Society, San Francisco, CA, April 1992
Ground Water Quality Monitoring at Lined "Dry Tomb" Municipal Landfills: Problems with Current Approaches and Suggested Alternatives	Workshop at National Ground Water Association Outdoor Action Conference, May 1992
The Need for Greater Chemistry Input to Hazardous Chemical Management in the Environment	Keynote Lecture at Rocky Mountain Analytical Chemistry Symposium, Denver, August 1992
Public Health and Water Quality Importance of Soil Lead Residues in Property Site Assessment	National Ground Water Association Site Assessment conference, Orlando, FL, August 1992

Impact of 6-year Drought of Domestic Water Supply Water Quality in California	American Water Resources Association Int. meeting, Reno, NV, November 1992
Regulating Heavy Metals in Surface Waters in a Technically Valid, Cost-Effective Manner	IPC 36th Annual meeting, San Francisco, CA, May 1993
Problems in the Use of Chemically Based Sediment Quality Criteria to Regulate Contaminated Aquatic Sediments	International Water Quality Association conference, Milwaukee, WI, June 1993
Potential Significance of Ammonia as a Toxicant in Aquatic Sediments	International Water Quality Association conference, Milwaukee, WI, June 1993
Water Quality Aspects of Incidental River Groundwater Recharge of Domestic and Industrial Wastewaters	AWRA Conference on Innovations in Groundwater Management, Tucson, AZ, August 1993
Overview of Landfills and Groundwater Quality Protection Issues	AWRA Conf on Innovations in Groundwater Management, Tucson, AZ, August 1993
Water Quality Impacts of Stormwater-Associated Contaminants: Where are the Problems?	International Water Quality Association Conference on Diffuse Source Pollution: Sources, Prevention, Impact and Abatement, Chicago, IL, September 1993
Lined "Dry Tomb" Landfills versus "Wetcell"-Fermentation and Leaching Landfills for Municipal Solid Waste Management	International Landfill Symposium, Sardinia, Italy, October 1993
USA Municipal Landfill Leachate Composition, Monitoring and Potential Impacts on Groundwater Quality for Domestic Water Supply Use	International Landfill Symposium, Sardinia, Italy, October 1993
Sediment Quality Criteria: Numeric Chemical- vs. Biological Effects-Based Approaches	WEF National Conference on Surface Water Quality and Ecology, October 1993
Evaluation of the Water Quality Significance of Copper in San Diego Bay Sediments	American Chemical Society National Meeting, San Diego, CA, March 1994
Regulatory Issues Governing Establishment of Remediation Level for Copper in San Diego Bay Sediment	American Chemical Society National Meeting, San Diego, CA, March 1994
Resource Recovery vs. Landfilling Solid & Hazardous Waste: Facing Long-Term Liability	HMCRI National Conference, New Orleans, LA, April 1994
Achieving Adequate BMP's for Stormwater Quality Management	American Society of Civil Engineers Environmental Engineering Division National Conference, Boulder, CO, July 1994
Evaluation and Management of Non-Point Source Pollutants in the Lake Tahoe Watershed	American Society of Civil Engineers Environmental Engineering Division National Conference, Boulder, CO, July 1994

Water Quality Aspects of Ground Water Recharge: An Overview	American Society of Civil Engineers National Conference on Ground Water Recharge, Orlando, FL, July 1994
Landfill NIMBY and Systems Engineering: A Paradigm for Urban Planning	National Council on System Engineering International Symposium, San Jose, CA, August 1994
Chemical Concentration vs. Biological Effects Criteria for Dredged Sediment	ASCE "Dredging 94" Conference, Lake Buena Vista, Florida, November 1994
Does Meeting Cleanup Standards Mean Protection of Public Health and the Environment?	HMCRI Superfund XV Conference, Washington, D.C., November 1994
Issues in Establishing Contaminated Sediment Clean-Up Objectives	Sediment Remediation '95, international conference organized by Wastewater Technology Centre, Burlington, Ontario, Canada, May 1995
Public Health and Environmental Safety of Reclaimed Wastewater Reuse	Arizona Water Resources Research Center 7th Symposium on Artificial Recharge of Groundwater, Scottsdale, Arizona, May 1995
Water Quality Modeling Issues in the Delta and San Francisco Bay	Toxics and Water Quality Modeling Workshop, Lawrence Berkeley National Laboratory, Berkeley, California, August 1995
Landfill Postclosure Issues to Protect Groundwater Quality	ASCE Geotechnical and Environmental Engineering Division National Conference, San Diego, California, October 1995
Water Quality Management in Times of Reduced Funds Availability	SETAC World Congress, Vancouver, BC, Canada, November 1995
Appropriate Degree of Treatment of Domestic Wastewater Before Use for Groundwater Recharge of Shrubbery Irrigation	WEF-AWWA International Conference on Wastewater Reuse, San Diego, California, March 1996
Superfund Site Remediation by On-Site RCRA Landfills: Inadequacies in Providing Groundwater Quality Protection	Superfund/HazWaste West, Las Vegas, Nevada, May 1996
Aquatic Chemistry/Toxicology in Watershed-Based Water Quality Management Programs	Water Environment Federation Watershed '96 conference, Baltimore, Maryland, June 1996
Assessing Water Quality Impacts of Stormwater Runoff	ASCE North American Water and Environmental Congress, Anaheim, California, June 1996
Evaluation of the Water Quality Significance of the Chemical Constituents in Aquatic Sediments: Coupling Sediment Quality Evaluation Results to Significant Water Quality Impacts	Water Environment Federation conference, Dallas, Texas, October 1996
Evaluation Monitoring as an Alternative Water Quality Monitoring Approach	National Society for Environmental Toxicology and Chemistry, San Francisco, California November 1997

State of the Upper Newport Bay Water Quality	Orange County Conference, November 1997
Review of the Potential Impacts of the California Toxics Rule on Dredging of the Sacramento River, the Sacramento River Deep Water Ship Channel, and the Port of Stockton Deep Water Channel and Beneficial Uses of Dredged Sediment for Delta Levee Enhancement and Shallow Water Habitat Development	California Resources Agency Delta Levees and Habitat Advisory Committee, Sacramento, CA, November 1997
Development of a Stormwater Runoff Water Quality Evaluation and Management Program for Hazardous Chemical Sites	American Society for Testing Materials conference, San Diego, CA, January 1998
Assessing the Potential of Minimum Subtitle D Lined Landfills to Pollute: Alternative Landfilling Approaches	Air and Waste Management Association national meeting, San Diego, CA, June 1998
Regulating Organophosphate Pesticide Toxicity in Urban Stormwater Runoff	Norcal/SETAC meeting, Reno, NV; June 1998
Deficiencies in Subtitle D Monitoring for Liner Failure and Groundwater Pollution	National Water Quality Monitoring Council conference, Reno, NV, July 1998
Evaluation Monitoring as an Alternative to Conventional Water Quality Monitoring for Water Quality Characterization/ Management	National Water Quality Monitoring Council conference, Reno, NV, July 1998
Development of Appropriate Stormwater Infiltration BMPs: Part I Potential Water Quality Impacts, Monitoring and Efficacy Evaluation	Ground Water Protection Council 98 Annual Forum, Sacramento, CA, September 1998
Evaluation Monitoring vs Chemical Constituent Monitoring Chemical Concentrations vs Chemical Impacts	CA Water Environment Association Training Seminar, "Recent Advances in Receiving Water Monitoring," Anaheim, CA, February 1999
Organophosphate Pesticide Toxicity in the Upper Newport Bay Watershed	NorCal SETAC, April 1999
Evaluation Monitoring vs Chemical Constituent Monitoring; Chemical Concentrations vs Chemical Impacts	Presented at CA Water Environment Association Training Seminar, "Recent Advances in Receiving Water Monitoring," February 1999
Update of UCD/DOE LEHR Superfund Site Investigation/Remediation	DSCSOC LEHR Town Meeting, April 2000
Appropriate TMDL Development and Implementation	Groundwater Resources Association, Sacramento Branch, CA, August 1999
Assessing the Degree of Appropriate Treatment of Shipyard and Drydock Wastewater Discharges and Stormwater Runoff	Oceans '99 MTS/IEEE Conference session, "Treatment of Regulated Discharges from Shipyards and Drydocks," Seattle, WA, September 1999

Development of a TMDL for Oxygen Demand Constituents in the San Joaquin River Deep Water Ship Channel	North American Lake Management annual meeting, Reno, NV, December 1999
Organophosphate Pesticides as Pollutants of Urban Lakes and Streams	North American Lake Management annual meeting, Reno, NV, December 1999
Issues in Recharge of Contaminated Surface Waters in Conjunctive Use Projects	National Groundwater Association Conference Session on Conjunctive Use, San Francisco, CA, February 2000
Importance of Integrating Aquatic Chemistry with Toxicology/Biology in Regulating Urban-Area Stormwater Runoff: OP Pesticide Aquatic Life Toxicity Management	American Chemical Society annual meeting, San Francisco, CA, March 2000
Overview of San Joaquin River Deep Water Ship Channel Dissolved Oxygen TMDL Development	NorCal SETAC annual meeting, Davis, CA, April 2000
Three Rs Managed Garbage Protects Groundwater Quality	Air and Waste Management Association 93rd nat'l annual meeting, Pittsburgh, PA, June 2000
Appropriate Use of MSW Leachate Recycling in Municipal Solid Waste Landfilling	Air and Waste Management Association 93rd national annual meeting, Pittsburgh, PA, June 2000
Development of TMDLs for Control of Organophosphate Pesticide Caused Aquatic Life Toxicity in Urban Stormwater Runoff	WEFTECH 2000 Water Environment Federation annual meeting, Anaheim, CA, October 2000
Development of TMDLs and Wet Weather Standards for the Control of Heavy Metals in Urban Stormwater Runoff	Proceedings WEFTECH 2000 Water Environment Federation annual meeting, Anaheim, CA, October 2000
TMDL Development to Control DO Depletion in the San Joaquin River Deep Water Ship Channel	CALFED Science Conference, Sacramento, CA, October 2000
Improved Public Health and Environmental Protection Resulting from Superfund Site Investigation/Remediation	US EPA Technical Assistance Grant Workshop, Nashville, Tennessee, September 2000
Evaluation of Inorganic and Organic Nutrient Source Impacts in Nutrient TMDLs	AWWA/WEF/CWEA Joint Residuals and Biosolids Management Conference, San Diego, CA, February 2001
Issues in Developing the San Joaquin River, CA, DO TMDL: Balancing Point and Nonpoint Oxygen Demand/Nutrient Control	WEF and ASIWPCA TMDL Science Conference, St. Louis, MO, March 2001
Developing TMDLs for Organochlorine Pesticides and PCBs	Environmental Chemistry Division, American Chemical Society national meeting, San Diego, California, April 2001
City of Stockton Urban Stormwater Runoff Aquatic Life Toxicity Studies	NorCal SETAC, Santa Cruz, CA, June 2001

Proactive Approach for Controlling Aquatic Life Toxicity Due to Pesticides	Sacramento River Watershed Program Toxics Subcommittee, 2001; CALFED Watershed Seminar, 2001
Overview of the SJR DO TMDL Issues	California Nonpoint Source Conference, Sacramento, CA, 2001
Assessing the Water Quality Impacts of Phosphorus in Runoff from Agricultural Lands	Presentation at American Chemical Society, Agro Chemical Division Symposium, "Environmental Impact of Fertilizer Products in Soil, Air and Water," Chicago, IL, August 2001
Issues in Controlling Oxygen Depletion in the San Joaquin River Deep Water Ship Channel: Developing a NPS Nutrient Control Program	US EPA 319 Conference, "Demonstrating Nonpoint Source Solutions," Sacramento, CA, October 2001
Occurrence of Public Health and Environmental Hazards and Potential Remediation of Arsenic-Containing Soils, Sediments, Surface Water and Groundwater at the Lava Cap Mine NPL Superfund Site in Nevada County, CA	Fifth International Conference on Arsenic Exposure and Health Effects, Society for Environmental Geochemistry and Health, San Diego, CA, July 2002
An Integrated Approach for TMDL Development for Agricultural Stormwater Runoff, Tailwater Releases and Subsurface Drain Water	US Committee on Irrigation and Drainage 2002 Water Management Conference, "Helping Irrigated Agriculture Adjust to TMDLs," Sacramento, CA, October 2002
Appropriate Incorporation of Chemical Information in a Best Professional Judgment 'Triad' Weight of Evidence Evaluation of Sediment Quality	Fifth International Symposium on Sediment Quality Assessment, Aquatic Ecosystem Health and Management Society, Chicago, IL, October 2002
Developing Nutrient Criteria/TMDLs to Manage Excessive Fertilization of Waterbodies	Water Environment Federation, TMDL 2002 Conference, Phoenix, AZ, November 2002
Improving the Quality of Science/Engineering in Superfund Site Investigation & Remediation II: Onsite Landfilling	US EPA Technical Assistance Grant Workshop, Albuquerque, NM, February 2003
Developing Central Valley, California, Agricultural Runoff/Discharges Water Quality Monitoring Programs	2003 AWRA Spring Specialty Conference, "Agricultural Hydrology and Water Quality," American Water Resources Association, Kansas City, MO, May 2003
Development of Sediment Quality Objectives for California	AWRA national conference, San Diego, CA, November 2003
Regulating Water Quality Impacts of Port and Harbor Stormwater Runoff	Proc. International Symposium on Prevention of Pollution from Ships, Shipyards, Drydocks, Ports, and Harbors, New Orleans, LA, November 2003

Excessive Bioaccumulation of Organochlorine Legacy Pesticides and PCBs in California Central Valley Fish	US EPA, California OEHHA and ATSDR 2004 National Forum on Contaminants in Fish, San Diego, CA, January 2004
San Joaquin River Deep Water Ship Channel Low DO Problem and Control	CBDA Science Conference, 2004 Sacramento, CA October 2004
San Joaquin River Deep Water Ship Channel Low DO Problem and Control: Part I The Problem	SETAC World Conference, Portland, OR, November 2004
San Joaquin River Deep Water Ship Channel Low DO Problem and Control: Part II Control Approaches	SETAC World Conference, Portland, OR, November 2004

PRESENTATIONS AT ADMINISTRATIVE HEARINGS AND TRIALS

<u>TOPIC</u>	<u>ACTIVITY</u>
Potential Effects of Taconite Tailings on Water Quality in Lake Superior	Lake Superior Enforcement Conference, 1969-70
Effects of Taconite Tailings on Water Quality in Lake Superior	Lake County District Court Trial, Reserve Mining Co. vs. State of Minnesota, 1970
Potential Effects of Thermal Discharges on Water Quality in the State of Illinois Waters of Lake Michigan	Illinois Pollution Control Board, 1970
Effects of Using Once Through Cooling on Water Quality in Lake Michigan	EPA Workshop on Thermal Discharge Standards for Lake Michigan, 1970
Characteristics of Water Quality in Badfish Creek and Effects of Madison Metropolitan Sewerage District Discharge on Badfish Creek	Wisconsin Department of Natural Resources Hearing on Reclassification of Badfish Creek, 1971
Procedures That Should be Used to Establish Thermal Discharge Standards for the State of Wisconsin	Wisconsin Department of Natural Resources, 1972
Potential Effect of Thermal Discharge on Water Quality in Lake Michigan	US AEC Hearing for the Operating Permit for the Wisconsin Electric Power Plant Beach, Nuclear Power Reactor, Unit 2, 1972
Effect of Cooling Tower Blowdown on Receiving Water Quality from the Zion Nuclear Power Station	Lake Michigan Enforcement Conference, 1972
Effect of Development on Water Quality in Lake Monroe	Indiana Stream Pollution Control Board, 1972
Comments on the Proposed Water Quality Standards for the State of Wisconsin	Wisconsin Department of Natural Resources Hearing, 1973
Effects of Once Through Cooling on the Chemical Parameters of Water Quality and Eutrophication of Lake Michigan	US AEC Hearing for the Operating Permit for the Commonwealth Edison Co., Zion Nuclear Power Electric Generating Station, Unit 1, 1973
A Water Quality Management Plan for the Proposed Impoundment on 14-Mile Creek	Wisconsin Department of Natural Resources Hearing on Proposed Impoundment on 14-Mile Creek, 1973
Energy Crisis and Environmental Quality Control	Governor's Energy Council (Texas), 1973
Ocean Dumping Permits for the Gulf of Mexico	EPA Hearings, Houston, TX, 1973
Impact of Inland Steel Company Discharge on Lake Michigan Water Quality	Trial, Illinois Court, 1975

Environmental Impact of City of Garland Proposed Sanitary Landfill	Texas Department of Health Resources Hearing, 1975
Impact of Waste Water Discharges for Gould's McConnellsville Plant on Water Quality in the Muskingum River	Trial, Ohio Court, 1975
Comments on Texas Water Quality Board Proposed Regulations for Toxicity of Effluent Bioassay Testing	Hearing, Texas Water Quality Board, 1975
Water Quality Standards for Cyanide	Illinois Pollution Control Board Hearing on Proposed Cyanide Effluent and Water Quality Standards, 1975
Environmental Impact of Land Disposal of Industrial Wastes	Texas Water Quality Board Hearing, 1976
Impact of Phosphate Detergent Ban on Water Quality in the Great Lakes	Hearing, State of Michigan Natural Resources Commission, 1976
Environmental Impact of Waste Water Sludges on Sand Pit Quality	Trial, Federal Court of Texas, 1977
Impact of Appalachian Timber Services, Inc. Waste Disposal Operations on Surface and Groundwater Quality	Hearing, State of West Virginia, May, 1980
Impact of Ammonia Discharged in Fort Collins, Loveland, Greeley and Longmont Domestic Wastewaters on Water Quality in the Poudre, Big Thompson and St. Vrain Rivers	Colorado Water Quality Control Commission Hearing, July, 1980
Impact of Hazard Waste Disposal Operation on Groundwater Quality	Hearing, State of New York, July 1980
Impact of Colorado Springs Domestic Wastewater Discharges on Water Quality in Fountain Creek	Colorado Water Quality Control Commission Hearing, December, 1980
Impact of Pueblo Domestic Wastewater Treatment Plant Discharges on Water Quality in the Arkansas River	Colorado Water Quality Control Commission Hearing, December, 1980
Evaluation of the Hazard of Proposed Hazardous Waste Disposal Site in Brush, Colorado Domestic Water Supply Watershed	Colorado Department of Health Information Meeting, 1981
Comments on Colorado Department of Health October 8, 1981 Draft Proposed Regulations for Siting of Hazardous Waste Disposal Sites	Colorado Board of Health Hearing, October, 1981
Comments on Colorado Department of Health Technical Guidelines for Implementing Hazardous Waste Site Disposal Siting Regulations	Colorado Department of Health Meeting, 1982

Environmental Problems with the Proposed Hazardous Waste Disposal Site near Last Chance, Colorado	Colorado Department of Health Public Information Meeting, March 1982
The Need for Additional Hazardous Waste Disposal Sites in Colorado	Adams County, Colorado Planning Commission, May 1982
Potential Problems of Hazardous Waste Disposal near Last Chance, Colorado	Adams County, Colorado Commissioners Hearing on BFI Proposed Hazardous Waste Disposal Site, May 1982
Impact of Dredging and Dredged Material Disposal on Lake Shetek Water Quality	Minnesota Department of Natural Resources Hearing, June 1982
An Evaluation of the Public Health Hazard of the Highway 36 Hazardous Waste Disposal Site near Last Chance, Colorado	Adams County Commissioners Hearing, Adams County, CO, July 1983
Appropriateness of Proposed California Regulations Governing Land Disposal of Wastes	California State Water Resources Control Board Workshop, Sacramento, April 1984
Evaluation of Water Quality in PORTE LIBERTE Development	Corps of Engineers - New Jersey Department of Environmental Protection Hearing, March 1985
Potential Groundwater Problems of Proposed Sanitary Landfill	McHenry County Illinois Commission Hearing, December, 1985 and June 1987
Potential Water Quality Problems of the GSX Hazardous Waste Treatment Facilities	State of North Carolina Public Hearing, Lumberton, North Carolina, March 1986
Evaluation of the Potential for Groundwater Contamination Problems of Proposed Sanitary Landfill	Hearing Before Wayne County, Illinois, July 1986
Evaluation of the Potential Public Health and Environmental Problems of a Proposed Landfill within the Town of Richmond, Rhode Island	Hearing Before the State of Rhode Island, December 1988
Justification for Providing Additional Public Health and Environmental Protection for Hazardous Waste Treatment Facilities Wastewater Discharges	US EPA Hearing on the North Carolina RCRA Permit, June 1989
Potential Public Health and Groundwater Quality Problems of the Expansion of the Azusa Landfill	California Water Resources Control Board Hearing, October, 1989
Potential Public Health and Environmental Problems of San Diego North County Proposed Landfills	San Diego County, Public Works public meeting, Warner Springs, CA, March 1990
Potential Public Health and Environmental Quality Problems of the Proposed Apanolio Canyon Landfill	California Water Quality Control Board San Francisco Bay Region Hearing, June 1990
Potential Water Quality Impacts of the Proposed Keller Canyon Landfill	San Francisco Bay Regional Water Quality Control Board, Oakland, CA, March 1991

Establishing a Sediment Clean Up Objective for Copper Contaminated San Diego Bay Sediments	Testimony for the California Regional Water Quality Control Board, San Diego Region, December 1991
Potential Water Quality Impacts of the Proposed Keller Canyon Landfill	Water Resources Control Board, Sacramento, CA, March 1992
Importance of Not Siting Landfills in Sand and Gravel Pits in the Los Angeles Basin	Testimony for the Los Angeles Regional Water Quality Control Board, June 1992
Problems with Proposed Site Specific Water Quality Objectives for San Francisco Bay	Testimony before San Francisco Regional Water Quality Control Board, October 1992
Pollution of Groundwater by Proposed United Waste Systems Landfill, Menominee Township, MI	Testimony before the Michigan Court, Lansing, MI, March 1993
Inadequacy in Planning for Municipal Solid Waste Management in Connection with the Proposed Puente Hills Landfill Expansion	Testimony before the Los Angeles County Planning Commission, Los Angeles, CA, March 1993
Impact of Landfill Gas on Golf Course Turf	Trial Shoreline Golf Company vs. City of Mountain View, CA, February 1994
Impact of Caltrans Highway Stormwater Runoff on Santa Monica Bay	Trial NRDC vs. Caltrans, November 1994
Impact of Western Regional Sanitary Landfill Emissions on Adjacent Property Owners	Litigation Stanford Ranch vs. Placer County, fall 1994 to spring 1995.
Impact of Hazardous Waste Landfill Pollution of Groundwater	City of New Haven, IN, vs. Chemical Waste Management, Inc., 1995
Evaluation of the Potential for the BFI Proposed Rosser Landfill to Pollute Groundwater	Testimony before Manitoba Environment Commission, Winnipeg, Manitoba, Canada, November 1995
Evaluation of the Potential Pollution of Groundwaters by the Proposed 304th and Meridian Landfill	Testimony before the County Solid Waste Siting Authority, Tacoma, Washington, December 1995
Inadequacies in the Proposed Development of the Adams Center Hazardous Waste Landfill	Testimony before the Indiana Hazardous Waste Facility Siting Commission, Fort Wayne, Indiana, March 1996
Management of Nitrate Inputs to Upper Newport Bay	Santa Ana Regional Water Quality Control Board Hearing, Riverside, California, June 1996
Recommended Changes in the Regulation of the UCD West Landfill Leachate-Polluted Groundwater Discharge to Putah Creek	Central Valley Regional Water Quality Control Board, Sacramento, California, June 1995; August and September 1996
Potential Problems of the Camp del Sur Landfill	Puerto Rican Solid Waste Management Authority, Spring 1997
Potential Problems with the CERRS Landfill	Colusa County Board of Supervisors, Fall 1997

Technically Valid Approaches for Regulating Nutrients in Upper Newport Bay	Santa Ana Regional Water Quality Control Board Hearing, January 1998
Consultant to California Sportfishing Protection Alliance in litigation on potential impacts of El Dorado County Union Mine landfill leachate on surface water quality	Federal Court, Sacramento, CA, March 1998
Consultant to Colonna Shipyards in Norfolk, Virginia, on litigation involving the impact of lead on children's health	State of Virginia Court, 1998
Consultant to Silverado Irvine, CA in litigation on the adequacy of best management practices to manage highway stormwater runoff water quality impacts in Orange County, CA	State of California Court, 1998
Consultant to Monterey County Housing Authority in litigation on lead-polluted soils in Salinas	Monterey County Court, 1998
Consultant to Hacienda-Santa Elena in Puerto Rico in administrative hearing on proposed landfill impacts on groundwater quality	Puerto Rican Solid Waste Management Authority, 1999
Consultant to SOLVE (an Arizona environmental group) in litigation on the impacts of copper mine tailings on surface water quality	State of Arizona Court, 1999
Consultant to Clermont County Ohio in appeal of the State of Ohio's allowed closure of a hazardous waste landfill that is a threat to the County's domestic water supply	State of Ohio Environmental Protection Agency Appeals Board, February 1999
Consultant to River Watch (environmental group) in administrative hearing on proposed landfill impacts on groundwater quality in North San Diego County, CA	San Diego County Department of Health Hearing, 1999
Consultant to P. Bokariza in Peter Bokariza, <i>et al.</i> , v. John Rocha, Jr., <i>et al.</i> , No. 131175 (consolidated with 136178), on contamination of property by DDT in stormwater runoff	Superior Court, State of California, County of Santa Cruz, Santa Cruz, CA, April 2000
Consultant to Roseberg Resources on impacts of herbicide runoff from forested lands on domestic water supply	California State Court, 2000
Consultant to Wright County, MN, in Superior FCR Landfill Inc. v. Wright County, MN, File No. 98-CV-1911 JRT/FLON, on groundwater pollution by landfill	Federal Court, Minneapolis, MN, September 2000
Consultant to Sportfishing Protection Alliance in Sportfishing Protection Alliance v. Harold Smith & Son, Inc., No. C-99-3413 WHA JCS, on impact of waste concrete on stream water quality	Federal Court, San Francisco, CA, September 2000

Consultant to S. Mehalakis in Ed Gray and Steve Mehalakis v. Chester Gibson, <i>et al.</i> , No. SCV 9734, on groundwater pollution by turkey carcass waste pits	State of California Superior Court in and for Placer County, Sacramento, CA, October 2000
Consultant to Sportfishing Protection Alliance on impact of mountain road construction on stream water quality	Federal Court, Sacramento, CA, March 2001
Consultant to Sportfishing Protection Alliance in Sportfishing Protection Alliance v. Diablo Grande, Inc., No. CIV-F-00 5979 OWW DLB, on impact of urban development on stream water quality	Federal Court, Sacramento, CA, July 2001
Consultant to Carson Harbor Village, Carson, CA, on the impact of tar, slag and lead on wetlands	Federal Court, Los Angeles, CA, May 2003
Advisor to DeltaKeeper	Testimony before the CVRWQCB on city of Tracy, CA, groundwater recharge/recovery project, June 2004
Advisor to DeltaKeeper	Testified at SWRCB Workshop on the Bay Delta D 1641 hearings, January 2005
Consultant to the Grand Forks Concerned Citizens Coalition	Available for cross examination by telephone on report on the potential environmental impacts of the proposed Grand Forks, ND, Landfill at the Turtle River Township Zoning Commission hearing, February 2005
Advisor to DeltaKeeper	Need for Reliable Water Quality Monitoring/ Evaluation of the Impact of SWRCB Water Rights Decisions on Water Quality in the Delta and Its Tributaries, presented at CA Water Resources Control Board Workshop on D-1641 Water Rights, Sacramento, CA, March 2005.
Consultant to Meriwether County, Georgia	Testified at a trial on the appropriateness of Meriwether County, Georgia, restricting MSW landfills in small domestic water supply watersheds, August 2005.
Consultant to Hancock County, Georgia	Testified at a trial on the potential impacts of proposed Culverton Plantation Landfill, November 2005.
Consultant to California Sportfishing Protection Alliance	Testified at evidentiary hearing on the California State Water Resources Control Board draft Cease and Desist Order to require USBR's and CA DWR's compliance with South Delta salinity standards
Consultant to Louisiana Environmental Action Network	Prepare for trial on the impact of the C&D wastes from Hurricane Katrina deposited in the Gentilly Landfill

Consultant to Morrow County, Ohio, citizens group

Submit an affidavit to Morrow County Health Department on the potential impacts of the two proposed C&DD landfills on public health and the environment

CONTRACTS, GRANTS AND AWARDS

<u>Title</u>	<u>Source</u>	<u>Amount</u>	<u>Period</u>
Water Chemistry Training Grant	FWQA	\$425,000	1962-67
Water Chemistry Training Grant	FWQA	402,000	1968-73
Method of Concentrating Organic Solutes	FWQA	70,000	1964-67
Water Chemistry Research	University of Wisconsin Research Foundation	18,500	1962-67
Eutrophication of Lakes	University of Wisconsin Research Center	12,000	1965-68
Effect of Marshes on Water	Wisconsin Conservation Div.	24,000	1967-69
Use of Clamshells as Indicators of Paleohydrologic Conditions	NSF	30,000	1965-68
Contract for No-cost Loan of 30-ft. Naval Launch and US Army Amphibian Dukw	Office of Naval Research	--	1963-67
Use of Lake Sediment Cores to Estimate Eutrophication	FWQA	20,000	1969-70
Polychlorinated Biphenyl Compounds in Natural Water and Fish	Wisconsin Conservation Div.	12,200	1969-71
Preliminary Studies on Systems Modeling of C, N and P in Lake Wingra	NSF-IBP	21,500	1969-71
Effect of Taconite Tailings on Water Quality	Reserve Mining Company	60,600	1970-75
Effect of MnO ₂ and SO ₄ ⁻ on the Release of Phosphorus from Lake Water Resources Center Sediment	University of Wisconsin	5,500	1970-71
Water Chemistry Studies on Great Lakes, TFM, Zn, P	NSF-Sea Grant	101,000	1968-73
Modeling of N and P in Lake Mendota	US EPA	99,500	1970-74
Effect of Urban Development on Water Quality in Impoundments	Wisconsin Department. Natural Resources	19,000	1971-73
Literature Review Effects of Cooling Tower Blowdown on Water Quality	Commonwealth Edison Co., Chicago, IL	6,300	1972-75

Effect of Cooling Tower Blowdown on Water Quality	Wisconsin Department Natural Resources	5,100	1972-73
Nutrient Availability and Nutrient Status of Algae in Lake Ontario	US EPA	137,000	1972-75
Chlorinated Hydrocarbons in Water and Fish from Lake Ontario	US EPA	26,000	1972-74
Development of Criteria for Dredge Spoil Disposal	US Army Corps of Engineers	425,000	1973-76
Environmental Impact of Detergent Phosphate Replacement	Procter and Gamble	5,500	1973-75
Effect of Steel Plant Wastes on Water Quality	Inland Steel Corporation	5,000	1974
Critical N and P Loads for Lakes - OECD	US EPA	20,600	1974-75
Environmental Impact of Chemicals on Water Quality	US Steel Co.	5,000	1974-75
Hazardous Chemicals in the Great Lakes	US EPA	30,000	1974-77
Effect of Dredged Material on Water Quality near Galveston, Texas	US Army Corps of Engineers	200,000	1975
Travel Grant to Japan - Significance of Chemical Contaminants in Sediments	NSF	6,000	1975-77
Development of Test for Evaluation of the Transport of Hazardous Chemicals in Groundwater	US EPA	160,000	1976-78
Development of Research Strategy for Great Lakes Water Quality Control	US EPA	3,300	1976
Water Quality Studies in Lake Michigan	NOAA	76,000	1976-79
Isolation and Identification of Taste and Odor Compounds in Lake Ray Hubbard	University of Texas, Dallas	12,100	1976-77
Effect of Land Use on Water Quality in Lake Ray Hubbard	City of Dallas Water Utilities	94,000	1976-77
Water Quality Problems of Europe	Procter and Gamble	2,500	1977
Effect of Phosphorus on Water Quality	FMC Foundation	45,000	1977-79
Evaluate Environmental Impact of Dredged Sediment Disposal in New York Bight	New York District, US Army Corps of Engineers	17,000	1977

Develop Water Quality Management Programs for Spanish Impoundments	Spanish Government - US State Department	184,000	1978-83
Application of the OECD Eutrophication Model to TVA Impoundments	TVA	11,000	1978-79
Evaluation of the Role of Detergent Phosphate as a Cause of Water Quality Problems in Spain	Spanish AID	19,500	1979-80
Development of Water Quality Management Program for the Rawhide Electric Generating Station Cooling Lake	Platte River Power Authority	15,000	1979-80
Evaluation of the Environmental Impact of Urban Stormwater Drainage and Wastewater Discharges in the Poudre & Big Thompson Rivers	Fort Collins, Loveland, and Greeley, CO	23,000	1979-80
Evaluation of Eutrophication-Related Water Quality in Dillon Reservoir, CO	Colorado State University	2,000	1979
Evaluation of Impact of Wastewater Discharges on Water Quality in Fossil Creek Reservoir	Fort Collins, CO	10,000	1980-81
Evaluate Impact of Cl ₂ and NH ₃ in Pueblo Wastewaters on Arkansas River Water Quality	Pueblo Area Council of Governments	6,700	1980
Develop Water Quality Management Program for Bighorn, Lake Montana	National Park Service Research Center, University of Wyoming	11,000	1980
Evaluate Impact of Domestic Wastewater Discharges on Water Quality in Fountain Creek	Colorado Springs, CO	24,375	1980
Development of Hazard Assessment Approach for Chlordane & Ammonia in the North Landing River Dredging Project	Norfolk District, US Army Corps of Engineers	12,400	1980-81
Evaluate Impact of Chemical Contaminants in Upper Mississippi River Dredged Sediments on Water Quality	Rock Island District, US Army Corps of Engineers	12,500	1981
Evaluate Potential Impact of Hazardous Waste Disposal Site	Brush, CO	35,000	1981-83
Development of a Guidance Document for Formulating Wastewater Permitted Discharges Based on US EPA Ammonia Water Quality Criteria	US EPA	4,900	1982

Review of Proposed Water Quality Monitoring Program for Jordan	US AID	21,000	1982
Development of Water Quality Management Program for Lake Olathe, KS	Olathe, KS, State of Kansas, US EPA	10,000	1982-84
Present Short Course on Application of OECD Eutrophication Modeling Results for South African Reservoirs	South African Water Research Commission	15,000	1982-83
Investigate Salt Contamination of Groundwaters under the TTU campus	Texas Tech University, Physical Plant	16,000	1982-83
Assess Hazardous Waste Disposal Research Needs in Texas	Texas Tech University Water Resources Center	11,000	1982-83
Analyze Hazardous Waste Management Approaches	US Army Construction Engineering Research Laboratory	2,100	1983
Investigate Slime Control Methods for Raw Water Transmission Lines	Canadian River Municipal Water Authority	50,000	1983-84
Development of Hazardous Waste Leaching Test	Texas Tech University College of Engineering	5,000	1983-84
Modeling the Transport of Contaminants in the Vadose Zone	Texas Tech University Water Resources Center	15,000	1983-84
Evaluate the City of Lubbock Water Utility's Laboratory Capabilities	City of Lubbock, TX	5,000	1983-84
Evaluate the Therapeutic Value of Stovall Hot Baths	Brazos River Authority	5,000	1983-84
Development of Water Quality Management Approaches for Argentine Lakes & Reservoirs	Pan American - WHO	3,500	1983-84
Advise on Water Quality Management Approaches for Impoundments and for Nearshore and Marine Waters	United Nations	7,500	1983-84
Evaluate Water Quality for Contact Recreation in Lake Ransom, TX	Village of Ransom Canyon, TX	400	1983-84
Evaluate Water Quality for Contact Recreation in Buffalo Springs Lake, TX	Buffalo Springs Lake Improvement Association	1,000	1983-84

Evaluate Water Quality in the Lubbock Yellowhouse Canyon Lakes	City of Lubbock Department of Parks and Recreation	7,500	1983-84
Present Shortcourse on Hazardous Waste Management Approaches	State of California Water Resources Control Board	2,500	1984
Assessment of Approaches for Hazardous Waste Management	State of Michigan Toxic Substance Control Commission	4,500	1984
Evaluation of the Efficacy of Landfill Leachate Recycle for Leachate Treatment	US Army Construction Engineers Research Laboratory	48,000	1984-85
SITE Division Development	NJIT et al. Haz/Tox Center	31,000	1984-87
Research Support on Hazardous Waste Management at Military Installations	US Army Construction Engineers Research Laboratory	100,000	1985
Environmental Engineering Program Development	NJIT	5,000	1984-85
Evaluation of the Environmental Impact Assessment Approach for Hazardous Waste Transfer Station	US Army Construction Engineers Research Laboratory	7,500	1984-85
Development of a Water Quality Management Program for the Eutrophication of Lake Champlain	US Army Construction Engineers Research Laboratory	8,000	1985
Environmental Engineering Program Development	NJIT	7,500	1985-86
Evaluation of the Biological Treatability of Town Gas Residues	Public Service Electric & Gas	20,000	1985-86
Evaluation of Groundwater Contamination and Remediation at the Fort Dix, NJ Landfill	US Army Construction Engineers Research Laboratory	7,500	1985
In situ remediation of TCE and Vinyl Chloride in Groundwaters	NJIT et al. Hazardous Waste Research Center	45,838	1986-88
Eutrophication of the Hudson Raritan Estuary	NJ Marine Sciences Consortium Mini-grant	2,500	1986-87
Environmental Engineering Program Development	NJIT	5,000	1986-87

Stability of HDPE Liners in Landfills	Gundle Liner Systems, Inc.	4,000	1987
Preliminary Planning for Wastewater Sludge Landfill Cover Project	ChemFix Technologies Inc.	6,500	1987
Evaluating the Impact of Removing Phosphorus from NY and NJ Domestic Wastewaters on New Jersey Coastal Water Quality	NOAA Sea Grant	25,000	1987-88
Present Lectures and Short Courses in the USSR	USSR Academy of Sciences	11,500	1987
Evaluate Procedures for Assessing Impact of Waste Loads on Receiving Water Quality	Kraft, Inc.	52,000	1987-88
Participate in International Conference on Phosphate, Water and the Quality of Life	Rhone-Poulenc, Paris, France	8,200	1988
Advisor to DSCSOC on UCD/DOE LEHR Superfund site investigation/remediation	DSCSOC	150,000	1995-2004
Evaluation Monitoring Demonstration Project for Water Quality Management in Upper Newport Bay	Silverado Constructors, Orange County, CA	150,000	1996-99
Evaluation of the Impact of Organophosphate Toxicity on Water Quality in Upper Newport Bay	US EPA	150,000	1997-99
Evaluation of the Sources of Organophosphate Pesticides in the Upper Newport Bay Watershed	US EPA	250,000	1997-99
Issues in Developing the San Joaquin River DO TMDL	California Regional Water Quality Control Board, Central Valley Region	20,000	1999-2000
Water Quality Issues of the Sacramento/ San Joaquin River Delta	DeltaKeeper	90,000	1999-2001
Impacts of Proposed Landfill	River Watch	15,000	2000
Chair of the SJR DO TMDL Technical Advisory Committee for the San Joaquin River Deep Water Ship Channel Low-DO Directed Action Project	City of Stockton	20,000	1999-2001

San Joaquin River Deep Water Ship Channel Low-DO Directed Action Project PI Coordinator	CALFED	208,000	2000-2003
Lava Cap Mine Superfund site investigation/remediation	South Yuba River Citizens League - US EPA TAG	35,000	2001-2004
Conduct Pilot Evaluation of the Bioavailability of PCBs in City of Stockton Smith Canal Sediments	DeltaKeeper/CVRWQCB - US EPA 319(h)	4,000	2002
Technical Assistance Advisor to DSCSOC for the LEHR Superfund Site	Davis South Campus Superfund Oversight Committee	27,000	2004-2005
Advise on NRDA Review of the West Branch of the Grand Calumet River	Sanitary District of Hammond, Indiana	18,000	2004
Prepare Comments on LA County New South Coast Golf Course Draft EIR	South Bay CARES	2,000	2004
Prepare Comments on Potential Impacts of Expanded Coventry, Vermont, Landfill on Lake Memphremagog Water Quality	Groupe Teknika/ Memphremagog Regional Council Quebec, Canada	2,000	2004
Review Proposed South Point Landfill	Mobile, AZ	23,680	2004
Grand Forks County Citizens Coalition	Grand Forks, ND	4,000	2004
Pottstown Landfill Closure Committee	Pottstown, PA	39,560	2004-2005
Altshuler, Berzon, Nussbaum, Rubin & Demain	San Francisco, CA	9,980	2005
OUTRAGE and POWER	Kankakee, IL	3,000	2006
John Cobey et al.	Morrow County, OH	25,000	2006
Louisiana Environmental Action Network	Baton Rouge, LA	4,500	2006
Heart of Illinois Sierra Club	Peoria, IL	5,000	2006

THESES & DISSERTATIONS CONDUCTED UNDER THE SUPERVISION OF
G. FRED LEE

<u>Student</u>	<u>Degree</u>	<u>Date</u>	<u>Title</u>
1. Shearer, S. D.	Ph.D.	1962	The Leachability of Radium 226 for Uranium Mill Waste Solids and River Sediments
2. Crane, J.	M.S.	1963	The Production of Nitrogen Gas under Anoxic Conditions
3. Kumke, G.	M.S.	1963	Activated Carbon Absorption Techniques
4. Malhotra, S. K.	Ph.D.	1963	Nutrient Removal from Secondary Effluent by Alum Flocculation
5. Clesceri, N.	Ph.D.	1963	Hydrolysis of Condensed Phosphates
6. Fruh, E. G.	M.S.	1963	Cesium Sorption by Lake Sediments
7. Kobayashi, S.	M.S.	1963	Freeze Concentration of Dilute Aqueous Solutions
8. Gardner, W.	M.S.	1964	Oxygenation of Lake Sediments
9. Brezonik, P.	M.S.	1965	Sources of Nitrogen Gas in Anaerobic Fermentation
10. Shannon, J.	M.S.	1965	Hydrolysis Rates of Condensed Phosphates in Natural Waters
11. Fruh, E. G.	Ph.D.	1965	Cesium Sorption by Hydrobiotite
12. Johnson, W. D.	M.S.	1965	Persistence of Toxaphene in Treated Lakes
13. Spear, R.	M.S.	1965	Extracellular Glycolic Acid Accumulation in Natural Waters and Laboratory Cultures
14. Doll, F.	M.S.	1967	The Effect of Coagulants on the Lime-Soda Softening of Water
15. Bentley, E.	M.S.	1967	Determination of Calcium by Atomic Adsorption Spectrophotometry
16. Peterson, J.	M.S.	1967	Sorption of Rhodamine B on Activated Carbon
17. Kammerer, P.	M.S.	1967	Freeze Concentration of Organic Compounds in Dilute Aqueous Solutions
18. Wentz, D.	M.S.	1967	Available Phosphorus in Lake Sediments
19. Hawley, J.	M.S.	1967	Calcium Carbonate Equilibrium in Lake Mendota

20.	Boucher, F.	Ph.D.	1967	The Adsorption of Chlorinated Hydrocarbon Pesticides on an Unconsolidated Aquifer Substrate
21.	Tranquillo, J.	M.S.	1967	Concentration of Dilute Phenolic Solutions Utilizing DMSO
22.	Brezonik, P.	Ph.D.	1967	The Dynamics of the Nitrogen Cycle in Natural Waters
23.	Bortleson, G.	M.S.	1967	Chemistry of Lake Sediment Cores
24.	Wang, Wun-Cheng	Ph.D.	1967	The Effect of the Association of Organic Material with Clays on Parathion and DDT Adsorption
25.	Pfeil, B.	M.S.	1967	Biodegradation of Nitritotriacetic Acid
26.	Delfino, J.	Ph.D.	1968	Aqueous Environmental Chemistry Manganese
27.	Hughes, R.	M.S.	1968	Persistence of Toxaphene in Natural Waters
28.	Plumb, R.	M.S.	1968	The Iron-Organic Relationship in Lake Mary
29.	Veith, G.	M.S.	1968	The Role of Lake Sediments in the Water Chemistry of Toxaphene
30.	Kluesener, J.	M.S.	1968	Oxygen and Color Relationships in Petenwell Reservoir, Wisconsin River
31.	Bentley, E.	Ph.D.	1969	The Effect of Marshes on Water Quality
32.	Cowen, W.	M.S.	1969	Construction of an Algal Turbidostat
33.	Sonzogni, W.	M.S.	1969	Productive Potential of Small Wisconsin Ponds
34.	Valentine, J.	M.S.	1969	Fate of Diquat in an Aquatic Environment
35.	Hanson, A.	M.S.	1969	Organic Nitrogen Compounds in Domestic Waste Waters
36.	Amundson, R.	M.S.	1970	Marsh Nutrient Availability
37.	Austin, E.	M.S.	1970	Release of Nitrogen from Lake Sediments
38.	Torrey, M.	M.S.	1970	Blue-Green Algal Pigments in Lake Sediments
39.	Weimer, W.	M.S.	1970	Chemical Limnology of Lake Mary, Vilas County
40.	Rodel, M.	M.S.	1970	Odorous Algal Metabolites
41.	Spear, R.	Ph.D.	1970	Release of Phosphorus from Lake Sediments
42.	Hughes, R. A.	Ph.D.	1970	Studies on the Persistence of Toxaphene in Treated Lakes

43.	Bortleson, G.	Ph.D.	1970	The Chemical Investigation of Recent Lake Sediments from Wisconsin
44.	Veith, G. D.	Ph.D.	1970	Environmental Chemistry of the Chlorobiphenyls in the Milwaukee River
45.	Cooper, J.	M.S.	1971	The Determination of Chemical Constituents by EEG of Home Stream Water of Coho Island
46.	Walton, C.	Ph.D.	1971	Algal Available Phosphorus in Natural Water
47.	Sanchez, I.	Ph.D.	1971	Aqueous Environmental Chemistry of Copper
48.	Gardner, W.	Ph.D.	1972	A Study of Selected Amino Acids in Lake Mendota
49.	Sridharan, N.	Ph.D.	1972	Aqueous Environmental Chemistry of Phosphorus in Lower Green Bay, Wisconsin
50.	Kluesener, J. W.	Ph.D.	1972	Nutrient Transport Mechanisms for Lake Wingra
51.	Torrey, M.	Ph.D.	1972	Biological Nitrogen Fixation in Lake Mendota
52.	Conway, C.	M.S.	1973	Oxygen Depletion in the Hypolimnion
53.	Duckert, W.	M.S.	1973	Occurrence of Phthalates in Natural Waters
54.	Hassett, J.	M.S.	1973	Sterols in Natural Waters
55.	Holmberg, D.	M.S.	1973	Persistence of Aquathol in Lakes
56.	James, D.	M.S.	1973	Inorganic Carbon Limited Algal Growth
57.	Lonergan, D.	M.S.	1973	Biological Nitrogen Fixation in Marshes
58.	Lopez, J.	M.S.	1973	Trace Metals in the Keweenaw Area of Lake Superior
59.	Lovett, R.	M.S.	1973	Gas Chromatographic Analysis of Transition Metals
60.	Plumb, R.	Ph.D.	1973	Effect of Taconite Tailings on Lake Superior Water Quality
61.	Peterson, J.	Ph.D.	1973	Aqueous Environmental Chemistry of Lead
62.	Schroeder, D.	M.S.	1973	Aqueous Environmental Chemistry of Chromium
63.	Stratton, C.	M.S.	1973	Effect of Cooling Tower Blowdown Water on Water Quality
64.	Sirishinha, K.	M.S.	1973	Algal Available Nitrogen in Urban Runoff and Lake Ontario Tributaries
65.	Turpin, P.	M.S.	1973	Nitrogen Compounds in Swimming Pools

66.	Cowen, W.	Ph.D.	1974	Algal Nutrient Availability and Limitation in Lake Ontario during IFYGL
67.	Sonzogni, W.	Ph.D.	1974	Effect of Nutrient Input Reduction on the Eutrophication of the Madison Lakes
68.	Stauffer, R.	Ph.D.	1974	Thermocline Migration - Algal Bloom Relationships in Stratified Lakes
69.	Piwoni, M.	M.S.	1974	Limnological Characteristics of Impoundments in South Central Wisconsin
70.	Thingvold, D.	Ph.D.	1975	Persistence of TFM in Natural Waters
71.	Piwoni, M.	Ph.D.	1975	Evaluation of Elutriate Test for Assessing the Pollutational Characteristics of Dredged Sediments and Nutrients
72.	Lopez, J.	Ph.D.	1976	Evaluation of Elutriate Test for Heavy Metals Released during the Aquatic Disposal of Dredged Sediment
73.	Saleh, F.	Ph.D.	1976	Selected Organic Pesticides Occurrence, Transformation and Removal from Dallas Domestic Wastewaters
74.	Nienke, G.	Ph.D.	1977	Aqueous Environmental Chemistry of Zinc in Green Bay and Lake Michigan
75.	Rast, W.	Ph.D.	1978	Relationship of N and P Loads and Eutrophication Response in Lakes and Impoundments
76.	Jones, R.	Ph.D.	1978	Release of Phosphorus from Dredged Sediments
77.	Mariani, G.*	Ph.D.	1979	Bioassay Assessment of Toxicity of Contaminants in Dredged Sediments
78.	Abdul-Rahman, M.*	Ph.D.	1979	Water Quality Modeling in Lake Ray Hubbard, Texas
79.	Homer, D.**	Ph.D.	1980	An Evaluation of Oxygen Demand of Dredged Sediments
80.	Butler, J.***	Ph.D.	1981	An Evaluation of the Significance of Chlorinated Hydrocarbon Pesticides and PCB's in Dredged Sediments
81.	Bandyopadhyay, P.****	Ph.D.	1981	Evaluation of the Significance of Nitrogen Compounds in Dredged Sediments
82.	Newbry, B.	Ph.D.	1981	Water Quality Management Using The Hazard Assessment Approach

83. Heinemann, T.	M.S.	1982	Environmental Chemistry-Fate Modeling of Domestic Wastewater Chlorine in Colorado Front Range Rivers
84. Thomas, A.	M.S.	1985	The Treatability and Characteristics of Leachate from Sanitary Landfills
85. Ohan, S.	M.S.	1986	In Situ Treatment of Leachate and Contaminated Groundwater
86. Simone, M.	M.S.	1986	The Thermal Incineration of Hazardous Waste
87. Corbin, R.	M.S.	1988	Alternative Soil Treatment Technologies
88. Raman, K.	M.S.	1986	A Risk Assessment for a Spill of a PCB Liquid Hazardous Waste Occurring During Transport for Ocean Incineration
89. Susco, J.	M.S.	1987	Application of Computer Techniques in Groundwater Contamination Studies
90. Gautreau, R.	M.S.	1988	Impact of Domestic Waste Water Phosphorus Control on New Jersey Coastal Water Quality

Dr. Lee retired from university teaching and research in July 1989.

* Completed with the assistance of W. Cale of the University of Texas at Dallas.

** Completed with the assistance of T. Waller of the University of Texas at Dallas.

*** Completed with the assistance of F. Saleh, North Texas State University, Denton, Texas.

**** Completed with the assistance of M. Piwoni of the University of Texas at Dallas.

AREAS WHERE G. FRED LEE HAS CONDUCTED STUDIES

Alabama - Mobile Bay

Arizona – Mobile, Verde Valley

California - San Francisco Bay; Los Angeles Harbor; State's Ground Waters; Lake Tahoe; San Diego County; Sacramento-San Joaquin Rivers Delta; San Gabriel Valley Basin; San Joaquin River Watershed, Mountain View, Half Moon Bay; Pittsburg; North Coast; Upper Newport Bay; San Diego Bay; Salinas; Orange County; Sacramento River; Davis; Carson; Palos Verdes; Nevada County; Granada Hills; Roseville

Colorado - Numerous rivers and lakes in the Colorado Front Range and Rocky Mountains including Fort Collins, Denver, Pueblo, Colorado Springs

Connecticut - Bridgeport and Stamford Harbors; Norwalk River; Lake Lillinonah

Delaware – Various landfills

Florida - Apalachicola-Intercoastal Waterway; Kissimmee River Basin - Lake Okechobee; Lakeland

Georgia - Sapelo Island, Meriwether County, Hancock County

Illinois - Lake Michigan-Waukegan, Zion; City of Chicago; Mississippi River and Illinois Ship Channel, McHenry County; Wayne County; Sauget; Kankakee; Peoria County

Indiana - Indiana and Calumet Harbors; Lakes Monroe and Michigan; other selected lakes and reservoirs; Hammond-Grand Calumet River; Fort Wayne

Iowa - Stream near Cherokee; Mississippi River

Kansas - Olathe

Louisiana – New Orleans area

Maryland - Potomac Estuary

Michigan - Menominee River; Menominee County; South Shore of Lake Superior; Lake Erie; Ypsilanti Township

Minnesota - Mississippi River near St. Paul-Minneapolis; Lake Superior - western arm including Duluth Harbor and Silver Bay; North Shore of Lake Superior; selected lakes near Albert Lea; Lake Shetek; Lake Sallie; Wright County

Missouri - St. Louis

New Jersey - Perth Amboy Harbor, Fort Dix, Rockaway Township, Coastal and Estuarine Waters-Hudson/Raritan Estuary and New York Bight, Cherry Hill, Lyndhurst

New York - Lake Ontario; Niagara, Genesee, Oswego and Black Rivers; Bay Ridge Channel; New York Bight; Niagara Falls; Hudson Raritan Estuary

North Carolina - Lumber River

North Dakota – Turtle River Township/Grand Forks

Ohio - Muskingum River; Ashtabula Harbor-Lake Erie; Clermont County; Huber Heights, Morrow County

Pennsylvania - Upper Ohio River near Pittsburgh; Delaware Estuary near Philadelphia; Lake Erie; Pottstown

Puerto Rico - Reservoirs and coastal waters, south coast groundwaters

Rhode Island - Atlantic Ocean near Newport; Richmond Township

South Carolina - Spartanburg

South Dakota - Belle Fourche Reservoir

Tennessee - TVA impoundments

Texas - Gulf of Mexico near Galveston, Port Aransas, Port Lavaca and Corpus Christi; Galveston Bay; Texas City and Houston Ship Channels; Trinity River near Dallas; Lake Ray Hubbard near Dallas; Garland; Mineral Wells; Red River, Lubbock, Lake Meredith, South Bend, Pasadena

Vermont - Lake Champlain; state streams and rivers, Coventry, Lake Memphremagog

Virginia - James River and Bailey Creek near Richmond and Hopewell; North Landing River; Intercoastal Waterway

Virgin Islands - St. Thomas

Washington - Duwamish River and Elliott Bay of Puget Sound near Seattle; Hylebos Waterway;

West Virginia - Kanawa River

Wisconsin - Numerous lakes and impoundments in South Central and Northern Wisconsin; Wisconsin, Yahara, and Rock Rivers; Milwaukee River and Harbor; Upper Fox River; Green Bay; Lake Michigan; Black Earth Creek; Mississippi River near Prairie du Chien; Lake Michigan - Point Beach; Milwaukee

Wyoming - Bighorn Lake

Antarctica (Dry Valleys - Lake Vanda), McMurdo Sound

Argentina, Canada (Ontario, Manitoba, New Brunswick, Quebec, Memphremagog), Columbia, Dominican Republic, Egypt, Hong Kong, India, Israel, Italy, Japan, Jordan, Korea, Mexico, The Netherlands, New Zealand, Norway, South Africa, Spain, Swaziland, Tunisia, USSR

G. FRED LEE'S UNIVERSITY GRADUATE LEVEL TEACHING EXPERIENCE

Aquatic Chemistry (Minteq based)
Impact of Contaminants on Water Quality - Water Quality Modeling
Physical/Chemical Treatment of Water, Wastes, and Leachates
Solid & Hazardous Waste Generation, Treatment, and Disposal
Hazardous Waste Management Engineering
Applied Limnology and Oceanography
Water & Wastewater Analysis
Water Quality Field Study Methodology
Special Topics in Solid & Hazardous Waste Management
Unit Processes of Water and Wastewater Treatment Laboratory
Advanced Water Quality Modeling
Hazardous Waste Management Engineering
Estuarine & Marine Chemistry
Coastal and Estuarine Processes - Field Course
Applied Radiochemistry, Radioactive Waste Problems & Management
Advanced Techniques of Water & Wastewater Analysis
Introduction to Environmental Engineering
Colloidal Chemistry of Water & Wastes

SHORT COURSES TAUGHT THROUGH UNIVERSITY EXTENSIONS, PROFESSIONAL SOCIETIES AND OTHER ORGANIZATIONS

Landfills and Groundwater Quality

University of California Extension Program-Berkeley, UCLA, Davis, Riverside, Santa Barbara
American Society of Civil Engineers
American Water Resources Association
National Groundwater Association

Water and Sediment Quality Evaluation and Management

Hazardous Materials Control Research Institute
Environmental Education Enterprises, Inc. (E³)

Urban Stormwater Runoff Water Quality Management: An Introduction to the Technical Basis for BMP Ratcheting-Down Processes to Meet Water Quality Standards

Orange County, California, Stormwater NPDES Co-Permittees
Los Angeles County Department of Public Works
Environmental Protection Department, Hong Kong

Assessing and Managing the Excessive Fertilization of Waterbodies

South African Department of Environmental Protection
University of Antioquia, Medellin, Colombia
University of California, Davis, Extension

Eutrophication

Ministry of Public Works, Buenos Aires, Argentina