

J. Phyllis Fox, Ph.D
Environmental Management

Dr. Fox has over 30 years of experience in the field of environmental engineering, including air quality management, water quality and water supply investigations, environmental permitting, nuisance investigations, environmental impact reports, CEQA/NEPA documentation, risk assessments, and litigation support. Her technical education in environmental engineering and her broad-based knowledge of environmental regulations and industrial and commercial facilities has been instrumental in her successful management of a wide variety of environmental projects.

EDUCATION

Ph.D. Environmental/Civil Engineering, University of California, Berkeley, 1980.

M.S. Environmental/Civil Engineering, University of California, Berkeley, 1975.

B.S. Physics (with high honors), University of Florida, Gainesville, 1971.

Post-Graduate:

S-Plus Data Analysis, MathSoft, 6/94.

Air Pollutant Emission Calculations, UC Berkeley Extension, 6-7/94

Assessment, Control and Remediation of LNAPL Contaminated Sites, API and USEPA, 9/94

Pesticides in the TIE Process, SETAC, 6/96

Sulfate Minerals: Geochemistry, Crystallography, and Environmental Significance,
Mineralogical Society of America/Geochemical Society, 11/00.

Design of Gas Turbine Combined Cycle and Cogeneration Systems, Thermoflow, 12/00

Air-Cooled Steam Condensers and Dry- and Hybrid-Cooling Towers, Power-Gen, 12/01

Combustion Turbine Power Augmentation with Inlet Cooling and Wet Compression,
Power-Gen , 12/01

REGISTRATION

Class I Registered Environmental Assessor, California (REA-00704)

Class II Registered Environmental Assessor, California (REA-20040)

Qualified Environmental Professional, Institute of Professional Environmental
Practice (QEP #02-010007)

Registered Professional Engineer

Arizona: Environmental (#36701)

California: Chemical (#40029)

Florida: Environmental (#57886)

PROFESSIONAL HISTORY

Environmental Management, Principal, 1981-present
Lawrence Berkeley Laboratory, Principal Investigator, 1977-1981
University of California, Berkeley, Program Manager, 1976-1977
Bechtel, Inc., Engineer, 1971-1976

PROFESSIONAL AFFILIATIONS

Society of Environmental Toxicology and Chemistry
Association for the Environmental Health of Soils
American Industrial Hygiene Association
Air and Waste Management Association
American Chemical Society
Phi Beta Kappa
Sigma Pi Sigma

Who's Who Environmental Registry, PH Publishing, Fort Collins, CO, 1992.
Who's Who in the World, Marquis Who's Who, Inc., Chicago, IL, 11th Ed., p. 371, 1993-present.
Who's Who of American Women, Marquis Who's Who, Inc., Chicago, IL, 13th Ed., p. 264, 1984-present.
Who's Who in Science and Engineering, Marquis Who's Who, Inc., New Providence, NJ, 5th Ed., p. 414, 1999-present.
Guide to Specialists on Toxic Substances, World Environment Center, New York, NY, p. 80, 1980.
National Research Council Committee on Irrigation-Induced Water Quality Problems (Selenium), Subcommittee on Quality Control/Quality Assurance (1985-1990).
National Research Council Committee on Surface Mining and Reclamation, Subcommittee on Oil Shale (1978-80)

REPRESENTATIVE EXPERIENCE

☰ **Performed environmental investigations for a wide range of industrial and commercial facilities including refineries, reformulated fuels projects, petroleum distribution terminals, conventional and thermally enhanced oil production, underground storage tanks, pipelines, gasoline stations, landfills, railyards, hazardous waste treatment facilities, power plants, airports, hydrogen plants, asphalt plants, cement plants, incinerators, flares, manufacturing facilities (semiconductors, electronic assembly, aerospace components, printed circuit boards, amusement park rides), lanthanide processing plants, ammonia plants, urea plants, food processing plants, grain processing facilities, paint formulation plants, wastewater treatment plants, marine terminals, gas processing plants, steel mills, battery manufacturing plants, pesticide manufacturing and repackaging**

facilities, pulp and paper mills, redevelopment projects (e.g., Mission Bay, Southern Pacific Railyards, Moscone Center expansion, San Diego Padres Ballpark), commercial office parks, campuses, and shopping centers, server farms, and a wide range of mines including sand and gravel, hard rock, limestone, nacholite, coal, molybdenum,

AIR QUALITY

- ☰ Prepared or reviewed the air quality sections of hundreds of EIRs and EISs on a wide range of industrial, commercial and residential projects.
- ☰ Prepared or reviewed hundreds of NSR and PSD permits for a wide range of industrial facilities.
- ☰ Designed, implemented, and directed a 2-year-long community air quality monitoring program to assure that residents downwind of a petroleum-contaminated site were not impacted during remediation of petroleum-contaminated soils. The program included real-time monitoring of particulates, diesel exhaust, and BTEX and time integrated monitoring for over 100 chemicals.
- ☰ Designed, implemented, and directed a 5-year long source, industrial hygiene, and ambient monitoring program to characterize air emissions, employee exposure, and downwind environmental impacts of a first-generation shale oil plant. The program included stack monitoring of heaters, boilers, incinerators, sulfur recovery units, rock crushers, API separator vents, and wastewater pond fugitives for arsenic, cadmium, chlorine, chromium, mercury, 15 organic indicators (e.g., quinoline, pyrrole, benzo(a)pyrene, thiophene, benzene), sulfur gases, hydrogen cyanide, and ammonia. In many cases, new methods had to be developed or existing methods modified to accommodate the complex matrices of shale plant gases.
- ☰ Conducted investigations on the impact of diesel exhaust from truck traffic from a wide range of facilities including mines, large retail centers, light industrial uses, and sports facilities. Conducted traffic surveys, continuously monitored diesel exhaust using an aethalometer, and prepared health risk assessments using resulting data.
- ☰ Conducted indoor air quality investigations to assess exposure to natural gas leaks, pesticides, molds and fungi, soil gas from subsurface contamination, and outgasing of carpets, drapes, furniture and construction materials. Prepared health risk assessments using collected data.

- ▣ Prepared health risk assessments, emission inventories, air quality analyses, and assisted in the permitting of over 70 1 to 2 MW emergency diesel generators.

- ▣ Developed methods to monitor trace elements in gas streams, including a continuous real-time monitor based on the Zeeman atomic absorption spectrometer, to continuously measure mercury and other elements.