



CHARLES H. POWELL, Sc.D.

EDUCATION:

B.S. Shurtleff College, Alton, Illinois, 1949
M.S. University of Cincinnati, Cincinnati, Ohio, 1959
Sc.D. in Industrial Health, University of Cincinnati, Ohio, 1960

PROFESSIONAL CERTIFICATIONS AND REGISTRATION:

American Board of Industrial Hygiene, CIH, Certification in Comprehensive Practice of Industrial Hygiene (No. 536).
Board of Certified Safety Professionals of the Americas, CSP, Certification as a Safety Professional (No. 837).
California Board of Registration for Professional Engineers and Land Surveyors, Licensed in Safety Engineering (No SF002588).

EXPERIENCE:

Cohrsen Environmental, San Francisco, Ca.: 1989 - present

Provide management, assessment and training services in the areas of industrial hygiene, environmental engineering, toxicology and information services.

Division of Occupational Safety and Health Administration, Department of Industrial Relations, State of California (CalOSHA): 1983 - 1984

Deputy Chief for Health: Appointed by the Governor as the Chief occupational health officer for the state was responsible for conducting a state wide occupational health program. One of the functions of this position was the development of information for use in risk assessments for specific industrial classifications. He was responsible for all of CalOSHA's standards development, medical and nursing programs and the training of the safety and health professional staff. He was also responsible for the funding of the hazard evaluation staff located in the state health department, as well as, the chemical analysis and laboratory service operations also located in the health department.

Charan Associates, Gualala, Ca.: 1982 - 1988

Owner: Consultants in occupational and environmental health. Provided industrial hygiene, occupational health and safety and environmental health consultation to governmental, industrial and other clients on a wide variety of environmental and occupational problems. Major areas of consultation are in occupational and environmental health management, assessment, environmental engineering control, training and information services. These include the reconstruction of past exposures to chemical and physical agents, review of industrial hygiene programs, review of toxicologic and epidemiology information and as an expert witness.



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PPG Industries, Inc., Pittsburgh, Pa.: 1977 - 1982.

Corporate Manager, Health Services Administration: Coordinating with the operating Divisions to develop and integrate personal work history data and medical records with the industrial hygiene records system to identify environmental hazard exposures of employees. This became a key element into the development of a Corporate Audit system. Assisted the operating divisions in the development and implementation of programs that were consistent with Corporate and Division Policies, and met the requirements of federal and state laws and accepted standards of professional practice in occupation and environmental health. Developed the Company's occupational health standards based upon results of the latest research which were more protective than federal standards.

Martin Marietta Corporation, Rockville, Maryland: 1975 - 1977.

Corporate Manager, Industrial Hygiene: Responsible for the development, implementation and cooperation of a Corporate wide Industrial Hygiene and Occupational Health program; provide management with the necessary information to maintain a healthy working environment. The basic approach was to control and maintain the workroom environment at safe levels with a minimum surveillance effort for both workroom air and medical records.

National Institute for Occupational Safety and Health, Washington, D.C.: 1970 - 1975.

Assistant to the Director: Responsible for the development of priority programs that cut across divisional lines. One was a joint effort between NIOSH and The Occupational Safety and Health Administration (OSHA) to complete the some 400 chemical standards that OSHA had adopted without including, medical, industrial hygiene methods of sampling and analysis, etc. This project was completed on time and is used by many industries today as a guide line for good practices.

Assistant NIOSH Director and Director of Research and Standards Development: Responsible for development of criteria for occupational safety and health standards promulgated by OSHA. Also developed the computer based automated technical information storage and retrieval system for NIOSH and published annually the Toxic Substances List.

Assistant Director, Division of Criteria and Standards Development: Responsible to the division director for planning, development, and operation of the divisions multi-disciplinary research effort. The research in Occupational Safety and Health was in engineering control, analytical methods development, toxicology, physiology, physical hazards and behavioral studies.

University of Missouri, Columbia, Mo.: 1968 - 1970.

Director, Environmental Health Center and Associate Professor of Bioengineering (College of Engineering) and Associate Professor of Community Health and Medical Practice (Medical School): Responsible to the Vice-President of Academic Affairs for development and operation of an Environmental Health Center with the major objective the development of educational and research efforts in Environmental Health in the four campus University system. Was also responsible for the development of an inter-departmental school and campus effort for a multi-disciplinary approach to environmental health.

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National Center for Urban and Industrial Health, USPHS, Cincinnati, Ohio: 1967 - 1968.

Chief of Technical Services, Occupational Health Program: Responsible for the operation of a consulting occupational health program to state and local occupational health units. During this time additional activities included the development of an epidemiology method to determine national priorities and needs in occupational health. To determine the requirements for a national system a major industrial area was used as a model. Over 800 plants were included in the statistical sample selected for evaluation. The study included a visit to each plant and an evaluation of the types of exposures and the effectiveness of controls. On the basis of the statistical sample, projections were made for the total industrial area in the study.

Other positions held in the Occupational Health Program, USPHS were in industrial hygiene engineering research, training, and state services.

University of Cincinnati, Cincinnati, Ohio: 1965 - 1968.

Adjunct Assistant Professor of Environmental Health (Medical School) - Part Time: Taught industrial hygiene and advised graduate students.

Division of Occupational Health, U.S. Public Health Service, (USPHS), Cincinnati, Ohio: 1962 - 1967.

Chief, Training Operations Section: Responsible for conducting a nationwide training program in Occupational Health. Also Regional Program Consultant for seven southern states.

USAF Regional Environmental Health Laboratory, Sacramento, Ca.: 1959-1962.

Commander: Responsible for administration and technical operations of the Laboratory that provided consultant services to Air Force Bases in twenty three states and two overseas Commands. These services included industrial hygiene engineering and analytical services and radiological health.

University of Cincinnati, Cincinnati, Oh.: 1957 - 1959.

Graduate Student.

USAF Environmental Health Laboratory, Wright-Patterson Air Force Base, Oh.: 1955-1957.

Chief, Analytical Section: Responsible to the Chief of Laboratory to provide industrial hygiene analytical services to Air Force Bases in Western United States (23 states). Activities included development of procedures for, and field evaluation of Air Force radar installations. This included evaluations of both microwave and x-radiations, as well as the evaluation of routine operations for the possibility of hazards from solvents, noises, etc.

**CHARLES H. POWELL, Sc.D.**Superior Testing Laboratories, Sandoval, IL: 1954 - 1955.

Consulting chemist: Conducted chemical and physical analysis of various materials. The Laboratory supported the local petroleum and agricultural industries on a consulting basis.

USAF Environmental Health Laboratory, Wright-Patterson Air Force Base, Oh.: 1952-1954.

Senior Laboratory Officer: Responsible under the direction of the Command Industrial Hygiene Engineer for the planning of, and the activation of the Air Force's first Environmental Health Laboratory to support the USAF Occupational Medical and Engineering program.

Superior Testing Laboratories, Sandoval, IL: 1949-1952.

Consulting chemist: Conducted chemical and physical analysis of various materials. The Laboratory supported the local petroleum and agricultural industries on a consulting basis.

PROFESSIONAL AFFILIATIONS AND AWARDS:

Past President of the American Industrial Hygiene Association, past member of the Board of Industrial Health Foundation and the American Industrial Hygiene Foundation. Served on numerous professional committees and been a member of a number of professional Organizations. Received the Public Health Service's Meritorious Service Medal and the American Conference of Governmental Industrial Hygienists' Meritorious Achievement Award (Physical Agents Comm.). Fellow, American Industrial Hygiene Association.

Dr. Powell is the author of over 70 publications.



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FEE SCHEDULE

Rates are as follows:

<u>PERSONNEL CATEGORY/ACTIVITY</u>	<u>HOURLY RATE</u>
Research and Preparation	
Industrial Hygiene Consultant	\$195
Senior Industrial Hygienist	\$150
Information Specialist	\$95
Industrial Hygienist	\$75
Library Associate	\$40
Secretary, Clerk	\$30

Court Room Testimony, Depositions, Arbitrations

Industrial Hygiene Consultant	\$435*
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* This rate also applies for any portion of an hour.

In addition to the above, the Client will be invoiced for any expenses incurred with these professional services, including but not limited to first class travel, meals, lodging, subcontract services, printing/publication, reproduction/copying expenses, literature references, photography, photo supplies and processing, graphics/illustrations, postage (including special mail services), telephone calls, "fax" transmission or telecopy expenses, computer time, equipment fees and courier services and all expenses reasonably incurred, with the Client's approval.

Effective 8/21/95

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