

Personal History:

Edward L. Alpen

Born, May 14, 1922, San Francisco, California
Married,
Children,

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Education:

University of California, Berkeley. B.S. Degree, 1946. Major, Chemistry,
Minors, Mathematics, Engineering.

University of California, San Francisco. Ph.D. Degree, January, 1950.
Major, Pharmaceutical Chemistry and Pharmacology. Minors, Physiology
and Biochemistry. Title of Ph.D. dissertation: Electric Dipole Moments
and Absorption Spectra of Some Alpha-Phenyl Carbonyl Compounds
Related to Methadon.

Experience:

1946-1947: Research Chemist, Cutter Laboratories, Berkeley, California.
Duties: Investigating fermentation processes associated
with the production of natural antibiotics.

1950-1951: Assistant Professor of Pharmacology, George Washington
University School of Medicine, Washington, D.C.
Duties: Lecturing to second year medical students in
Pharmacology and to fourth year students in Experimental
Therapeutics. Also conducted research in metabolic fate
of drugs and on the activity of chemotherapeutic agents.

1951-1952: Recalled to active duty as Lieutenant, Medical Service Corps,
U.S. Navy, assigned to the Naval Radiological Defense
Laboratory as Scientific Investigator. Carried out research on
the effects of thermal and ionizing radiations on living systems.

1952-1954: Same as above as civilian employee of the Laboratory, after
release from active military service.

Experience: continued

1954-1958: Head, Biophysics Branch, Naval Radiological Defense Laboratory.
Duties: Supervise the research of a professional staff of eight persons trained at the doctoral level in biophysics, biochemistry and medicine. The research was devoted to the effects of radiation on functional organ systems and was particularly concerned with the effects of neutron irradiation and other high ionization density radiations. About half time was devoted to research supervision of others, and about half time to personal research.

1958 to present Head, Biological and Medical Sciences Division, Naval Radiological Defense Laboratory, San Francisco, California.
Duties: Direct and administer the research activities of a staff of 100 persons. The professional staff numbers about 33 doctoral level individuals, with the remainder of the 100 persons at the technician and bachelor level. Support services are provided by laboratory staff outside the Division. Annual dollar value of the program is about \$2,500,000 in direct costs. The professional staff includes physiologists, biophysicists, biochemists, chemists, physicists, physicians, veterinarians, and other professional specialties. Research of the group is all related to radiation effects in a general way but includes such areas as stress biology, aging, neurophysiology, psychology, biophysics, immunology and other areas. Duties are roughly divided as follows: one-third, research administration; one-third, sponsor relationships and research grant activities; and one-third, personal research. Research in the Division is sponsored by the Departments of the Navy; Army and Air Force; the Office of Civil Defense; NASA; AEC; ONR; the Defense Atomic Support Agency, and other smaller agencies. Financial support of the program is negotiated by direct contact with the funding agencies.

My own present research activities are generally related to questions of cell kinetics and the kinetics of DNA replication.

Membership in Professional Societies and Consultative Appointments:

National Councilor, Radiation Research Society. Member of the Society since 1952.

Member, Board of Editors, Society for Experimental Biology and Medicine. Member of the Society since 1949.

Member, American Physiological Society since 1952.

Memberships: continued

Member, Sigma Xi. President of local chapter Sigma Xi, 1963-1964.

Fellow, California Academy of Sciences. Member since 1949, elected fellow, 1952.

Foreign Associate Member, Royal Society of Medicine since 1962.

Member, Radiation Study Section, National Institutes of Health, as Navy Representative, 1960-1966; as regular member, 1966 to present.

Member, Advisory Panel to Collaborative Radiological Health Laboratory, U.S. Public Health Service, 1965 to present.

Member, Quadripartite Technical Cooperation Panel (U.S.; U.K.; Canada; Australia; Scientific Cooperation group of the Department of Defense).

Member, National Council on Radiation Protection, Scientific Committee 14, 'Permissible Exposure under Emergency Conditions'.

Member, National Council on Radiation Protection, Scientific Committee 24, Radioactive Nucleic Acids and Precursors.

Consultant to the Director, Clinical Investigation Center, U.S. Naval Hospital, Oakland, 1956 to present.

Member, 'Failla' Panel to the Department of Defense on Radiological Instrumentation, 1955-1961.

AWARDS & HONORS:

1958-1959, Senior Post-Doctoral Fellow of the National Science Foundation in Residence at the Oxford University, Oxford, England, doing research on the hematological effects of ionizing radiations.

1961. Received the Sustaining Members Award for Creative Research of the Association of Military Surgeons. Citation and \$500 prize.

1962. Received the Department of the Navy Gold Medal for Distinguished Achievement in Science. Gold Medal, Citation, and \$5000 prize.

1963. Received the Distinguished Service Medal of the Department of Defense. Gold Medal and Citation.

AWARDS & HONORS: continued

1965-1966. Fellow of the John Simon Guggenheim Foundation, in Residence at the Institut Gustav Roussy, Paris, France, doing research on chromosome replication and cell cycle studies.

Biographed in:

American Men of Science
Who's Who in the West
Leaders in American Science
Who's Who in the World of Science

BIBLIOGRAPHY:

See attached

Out of Ball

EDWARD L. ALPEN, Associate Director, Pacific Northwest
Laboratories of Battelle

Education

B.S. Chemistry, University of California at Berkeley	1946
Ph.D. Pharmaceutical Chemistry and Pharmacology, University of California at San Francisco	1950

Experience

Research chemist, Cutter Laboratories, Berkeley, California, from 1946-1947; Assistant Professor of Pharmacology, George Washington University School of Medicine, Washington, D. C., 1950-1951; Recalled to active duty as Lieutenant, Medical Service Corps, U. S. Navy, assigned to the Naval Radiological Defense Laboratory as Scientific Investigator, 1951-1952; Same as above as civilian employee of the Laboratory, 1952-1954; Head, Biophysics Branch, Naval Radiological Defense Laboratory, 1954-1958; Head, Biological and Medical Sciences Division, Naval Radiological Defense Laboratory, 1958-1969; Manager, Environmental and Life Sciences Division, Pacific Northwest Laboratory of Battelle, 1969-1971. Associate Director, Pacific Northwest Laboratories of Battelle, March 1971-present. Presently holds rank of Captain, Medical Service Corps, U. S. Naval Reserve.

Research at the Naval Radiological Defense Laboratory was related to radiation effects in a general way but included such areas as stress biology, aging, neurophysiology, psychology, biophysics, immunology and other areas. Dr. Alpen's research activities were mostly related to questions of cell kinetics and the kinetics of DNA replication.

Professional Affiliations

National Councilor, Radiation Research Society, member since 1952
Member, Board of Editors, Society for Experimental Biology and
Medicine

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EDWARD L. ALPEN (continued)

Member, American Physiological Society since 1952
Member, National Environmental Council, Dept. of HEW, 1970 -
Chairman, Biological Effects Advisory Panel, Bureau of
Radiological Health, 1968-present
Member, Sigma Xi. Local chapter president 1963-64
Fellow, California Academy of Sciences
Foreign Associate Member, Royal Society of Medicine since 1962
Member, Radiation Study Section, National Institutes of Health,
as Navy Representative, 1960-66, regular member since then
Member, Advisory Panel to Collaborative Radiological Health
Laboratory, U.S. Public Health Service, 1965-70
Member, Quadripartite Technical Cooperation Panel (U.S., U.K.,
Canada, Australia, Scientific Cooperation group of the
Department of Defense)
Councilor, National Council on Radiation Protection
Member, NCRP Scientific Committees 14 and 24
Consultant to the Director, Clinical Investigation Center,
U.S. Naval Hospital, Oakland, 1956-present
Member, 'Failla' Panel to the Department of Defense on Radio-
logical Instrumentation, 1955-61

Honors and Awards

1958-59, Senior Post-Doctoral Fellow of the National Science
Foundation in Residence at the Oxford University, Oxford,
England, doing research on the hematological effects of
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ment of Defense. Gold Medal and Citation

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1965-66, Fellow of the John Simon Guggenheim Foundation, in residence at the Institut Gustav Roussy, Paris, France, doing research on chromosome replication and cell cycle studies

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Publications

Approximately 70 journal publications. Listing is available.