



DOW CHEMICAL U.S.A.

DE37

March 10, 1977

MIDLAND, MICHIGAN 48640

Mr. Paul R. Guinn
US Nuclear Regulatory Commission
Radioisotopes Licensing Branch
Division of Fuel Cycle &
Material Safety
Washington, DC 20555



Dear Mr. Guinn:

This is in reply to your letter dated February 14, 1977.
Enclosed is the up-to-date information on all members of our
Radiation Safety Committee which you requested.

Sincerely,

Ralph R. Langner

R. R. Langner, Chairman
Radiation Safety Committee
1803 Building
517/636-4344

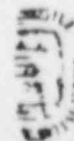
bjd

Enclosures

B508010170 B50611
PDR FOIA
KOHNB5-256 PDR

COPIES SENT TO CTR. OF
INSPECTION AND ENFORCEMENT

F-1



CURRICULUM VITAE

Ralph R. Langner

Home Address:

Home Phone:

Birthdate:

Birthplate:

Married:

Children:

Education:

Hayes Consolidated High School, Storm Lake, Iowa
University of Iowa - Iowa City, Iowa
B.A., General Science, 1950
M.S., Biochemistry, 1952
Ph.D., Biochemistry, 1953

Professional
Associations:

American Chemical Society
American Association for the Advancement of Science
New York Academy of Sciences
Society for Occupational & Environmental Health
American Industrial Hygiene Association
Michigan Occupational Standards Commission

Professional
Certifications:

Certified Professional Industrial Hygienist, American
Board of Industrial Hygiene

Personal Associations:

Rotary Club, 1957-1966 (President)
Lake Jackson City Council, 1966-1968
Lake Jackson Planning Commission, 1964-1966, 1968-1970

Miliary:

PFC, U.S. Army 3-21-47 to 4-21-48, Medical Corps

Employment:

1953-56 University of Texas Dental School

1956-Present, The Dow Chemical Company

Texas Division

1956 Industrial Hygienist, Medical

1959 Senior Research Chemist, Organic Product Lab

1964 Research Specialist, Polyol & Latex

1967 Research Specialist, Amines Research

1968 Group Leader, Organic Product Development

Michigan Division

1972 Manager, Industrial Hygiene Services

U.S. Area

1975, Director, Industrial Hygiene Laboratory

Publications:

Subject


Patents:

RESUME

PERSONAL:

Name: Joseph Bruce Owen

Present Address: Business - Dow Industrial Service
Nuclear Services
P. O. Box 2045
Midland, MI 48640
Phone: 517-636-3388

Home - 
Phone:

Born:

Marital Status:

PROFESSIONAL QUALIFICATIONS:

One year of management experience with Dow Industrial Service-Nuclear Services at Midland, Michigan.

Nineteen years with Dow Chemical U.S.A. at Rocky Flats and one year with Dow International at Karlsruhe, West Germany. While at Rocky Flats served as Company Representative on Radiation Monitor Training and Progression Committee, Joint Job Evaluation Committee, Company Union Safety Committee, numerous building committees, Ecology Council, Company Grievance Committee, and Company Negotiating Committee (temporary chairman for six weeks during 1973 negotiations with United Steel Workers of America). While at Midland, member of Radiation Safety Committee. Certified Health Physicist, 1964.

EDUCATION:

Attend four Colorado universities:

1. University of Northern Colorado - Greeley, Colorado, 1945-1946, general freshman subjects.
2. Colorado State University - Fort Collins, Colorado, 1948-1949, Mechanical engineering.
3. University of Denver - Denver, Colorado, 1952-1953, Mathematics.
4. University of Colorado - Boulder, Colorado, 1955-1957, Mathematics and laboratory.

0837

This work has resulted in sufficient hours for a bachelor's degree in mathematics. However, insufficient hours on campus at the University of Colorado prevents awarding of a degree. Equivalency was required by American Board of Health Physics in order to be eligible to take the written certification examination.

Additional significant on the job training and education received while employed at Rocky Flats includes Foreman training, Job performance Appraisal and Review, Industrial Ventilation, Industrial Toxicology and Nuclear Radiation Physics.

EMPLOYMENT HISTORY:

Number of years with Dow: 24

Dow Experience:

March 1975 to present

Dow Industrial Service - Nuclear Services
Manager of Radioactive Waste & Governmental
Affairs

Management of radioactive wastes resulting from chemical decontamination of nuclear power reactors. Development of a business based upon the solidification of radioactive wastes generated by the nuclear power industry.

December 1970 to
March 1975

Rocky Flats Plant
Manager, Waste Management

Managed the treatment and disposal of all liquid and solid radioactive and chemical process waste, sanitary sewage, and landfill refuse. Major accomplishments include a 40% reduction in generation of solid radioactive and chemical waste, 17% reduction in generation of liquid process waste, \$2,000,000 per year reduction in waste disposal costs, elimination of a backlog of 100,000 cubic feet of solid radioactive and chemical wastes, development of packaging for radioactive solid waste to meet USAEC requirements for 20-year retrievability, and zero discharge of liquid process waste treatment effluents.

All solid radioactive waste at Rocky Flats is transported to Idaho for storage. This operation involves management of rail and highway shipments in accordance with Department of Transportation Regulations and Special Permits.

Dow Representative on USAEC Waste Management Working Group and Alpha Waste Shipment Economics Study Group.

May 1969 to
October 1971

Rocky Flats Plant
Manager, Area Decontamination

Managed the decontamination of Buildings 776-777 following fire of May 11, 1969. This operation involved a total of slightly more than 600 employees with up to 300 working at one time on a continuous shift schedule. The work involved the decontamination of about 3,000,000 cubic feet of space and the contained equipment in a major manufacturing facility. Much of the work required extraordinary personnel training and protective equipment, including supplied air breathing apparatus. A total of about 1,250,000 man-hours and \$10,500,000 were required to complete the work. The work was completed seven months sooner and cost about \$1,000,000 less than was originally estimated. There were no detectable personnel exposures and no lost time injuries. Personnel levels were managed such that as the work was completed, the personnel were assigned to other work in the plant with the final 21 employees used to form Waste Management.

1965 to
1969

Rocky Flats Plant
Group Leader, Health Physics

Managed environmental monitoring programs, special health physics studies and surveys, emergency procedures, radiation shielding programs, and the development of training programs. Assisted in the design of new buildings and equipment throughout the plant.

1964 to
1965

Dow International, Karlsruhe, West Germany
Project Health Physicist

Responsible for the facility design, equipment purchase or fabrication, and personnel selection and training associated with health physics, industrial safety, industrial hygiene, nuclear safety, and maintenance programs to establish and start up a plutonium fuel fabrication plant. This was a joint venture between the Dow Chemical Company and a German firm known as NUKEM. The joint

venture is known as ALKEM and was successfully placed into operation during the spring of 1965. The facility was the first plant licensed to handle plutonium in West Germany. ALKEM has continued to grow and has expanded into a new plant. The Dow Chemical Company no longer holds any interest in ALKEM.

1955 to
1964.

Rocky Flats Plant
Group Leader, Health Physics

Responsibilities were basically the same as during the period of 1965 except they were limited to the plutonium areas of the plant.

1952 to
1955

Rocky Flats Plant
Radiation Monitor and Junior Scientist,
Health Physics

Began as a Radiation Monitor and was promoted to Junior Scientist in 1953. Duties involved performance of radiation surveys and special studies during initial environmental survey and start up of first plutonium facility at Rocky Flats.

Other Experience:

1951 to
1952

Rock Mountain News, Denver, Colorado
District Manager

Supervised sales and delivery in an area involving 16 routes.

1950 to
1951

Gates Ruber Company, Denver, Colorado
Quality Control Inspector

Performed Quality control inspection of tires, fan belts, garden hose, and raw materials.

1949 to
1950

Western Wood Preserving, Denver, Colorado
Yard Foreman

Supervised unloading, peeling, pressure treating; and loading of posts and poles.

1946 to
1948

U.S. Army
Staff Sergeant - Infantry

PROFESSIONAL, CIVIC, and Leisure Time Activities:

Patents:

Co-inventor Patent Number 3,237,821 - Glove changing apparatus and method.

Co-inventor of patent pending (RFPD-73) S-29,288 - Nozzle for down-draft unit.

Co-inventor of patent pending (RFPD-515) S-40,921 - Water shielded glovebox.

PROFESSIONAL ORGANIZATIONS:

Health Physics Society

American Board of Health Physics - Certified 1964
Member of Panel of Examiners

Central Rocky Mountain Chapter, Health Physics Society
(Past President)

American Industrial Hygiene Association

Have presented numerous papers on contamination control, radiation shielding, ^{241}Am content in plutonium mixtures, decontamination, waste packaging, and transportation.

CIVIC AND RECREATIONAL:

Guest lecturer, University of Colorado, survey course in nuclear engineering.

Member Rocky Flats Speakers Bureau, have spoken before local fire and emergency groups on the subject of handling accidents and fires involving radioactive materials. Also to local high schools on the subject of waste management.

Recreational activities include hunting, fishing, and golf.

CURRICULUM VITAE

DAVID B. JOHNS, M.D.

Age

EDUCATION: B. S. University of Pittsburgh - 1944
M. D. University of Pittsburgh - 1948

INTERNSHIP: Pittsburgh Hospital Assoc. 1948-1949

CERTIFICATION:

Board Eligible - 1975
American Board of Preventive Medicine
(plan to take exam in 1977 or 1978)

AREAS OF EXPERTISE:

- (1) Multiphasic health screening of chemical workers.
I designed and implemented the Dow Michigan Division's program in 1967.
- (2) Human Toxicology, i.e. the effects of chemicals and drugs on human health.
- (3) Industrial Hygiene as it relates to the health of the work place.

PROFESSIONAL HISTORY:

1949 - 1950 - Base Medical Officer
U.S. Naval Shipyard Dispensary
Philadelphia, PA.
1950 - 1951 - U.S. Naval Hospital
Portsmouth, VA - staff physician
1951 - 1952 - U.S. Naval Medical School
U.S. Naval hospital Bethesda, MD
Tropical Medicine
Radiation Safety and Decontamination
Submarine Medicine
Aviation Medicine
Basic Sciences
1952 - 1953 - Senior Medical Officer
Cruiser Division 2, U.S. 6th Fleet
1953 - 1954 - U.S. Naval Experimental Air Station,
Jolensville, PA.
1954 - 1955 - Private Practice Morrisville, PA

1965 - 1967: Plant Physician - Fisher Body Division of
General Motors Corporation, Tarrytown, N.Y.

1967 - Present: Dow Chemical Corporation
1967-1972 - Staff Physician - Midland Division

1972-1975 - Director of Clinical Research, Dow
Pharmaceuticals, Zionsville, Indiana
(Responsible for Phase II, III, & IV
Clinical Trials).

9/76-6/76: Assistant to the Corporate Medical
Director, Dow Chemical Company

6/76-present: Medical Director, Michigan Division,
The Dow Chemical Company, Dow Chemical USA,
(49 employees in department, supervise 5
Staff Physicians, 18 full time, 12 part
time R.N.'s)

LICENSED: Pennsylvania, Ohio, New Jersey, Michigan, New York, Indiana.

MEMBERSHIPS: AMERICAN MEDICAL ASSOCIATION
AMERICAN ACADEMY OF OCCUPATIONAL MEDICINE
AMERICAN OCCUPATIONAL MEDICAL ASSOCIATION

AWARDS: PHYSICIAN'S RECOGNITION AWARD
AMA - 1969

PERSONAL SUMMARYPaul M. Pankratz

- I. Currently Major Manager of the Designed Polymers, Monomers & Films Production Department, and Manager of Functional Polymers Technology Center, Michigan Division, Midland, Michigan.
- II. Dow Experience:
 - A. Joined Dow in 1957 as P.D.E. in Styron.
 - B. Supervisor of Foam Development Plant, 1960-1961.
 - C. Asst. Director of Foam Products Research Lab, 1961-1962.
 - D. Asst. Superintendent Saran Film Plant, 1962-1965.
 - E. Area Superintendent of Styrofoam Production, 1965-1966.
 - F. Manager of Saran Section, 1966-1973.
 - G. Manager, Latex Saran & Converted Products Dept. 1973-1976.
 - H. Major Manager, Designed Polymers, Monomers & Films, 1976-Present
- III. Previous Work Experience:
 - A. Spencer Chemical, 1955
 - B. U.S. Army Artillery, Fort Sill, 1955-1957.
 - C. Frontier Chemical, 1959.
- IV. Personal:
 - A. Age
 - B. Graduate of University of Kansas, 1955, with B.S. in Chemical Engineering.
 - C.

3/10/77

OSWALD U. ANDERS

Associate Scientist, Analytical Laboratories, The Dow Chemical Company, B. S. Georgetown University, 1952; M. S. Chemistry and Ph.D. University of Michigan. Joined The Dow Chemical Co., 1957 as radiochemist to develop accelerator-based Neutron Activation Analysis. 1963 promoted to Associate Scientist to head up new Activation Analysis group in Radiochemistry Research Laboratory. 1967 laboratory acquired a 100 KW TRIGA reactor, became reactor supervisor. Presently has additional responsibilities for hot cell work at Michigan Division and active in areas of industrial nuclear decontamination and neutron activation plant stream analyzers. Author of 28 scientific articles. Has served on advisory board of "Analytical Chemistry". Member of organizing committee for the International Conferences: Modern Trends in Activation Analysis, 1968-1976. ANS Division of Isotopes and Radiation: Executive Committee, 1972-1975; Treasurer 1975-1976, Vice Chairman 1976-1977, Chairman 1977-1978. Member of American Chemical Society, American Institute of Chemists and Sigma Xi.