



THE DOW CHEMICAL COMPANY

MIDLAND, MICHIGAN 48674

March 14, 1986

Mr. George M. McCann  
Nuclear Regulatory Commission  
Materials Licensing Section, Region III  
799 Roosevelt Road  
Glen Ellyn, Illinois 60137

NRC LICENSE NUMBER 21-00265-06

Due to the recent retirement of Fred A. Blanchard and William H. Lee, two replacements were selected for membership for the Radiation Safety Committee. The curriculum vitae are enclosed for Samuel K. Norwood and J. James Brozzo. They will assume their positions effective immediately. Dr. Dale J. Ducommun has elected to leave the Radiation Safety Committee at this time and will be replaced by Dr. Dale B. Hylton. Dr. Hylton's curriculum vitae is also enclosed.

Sincerely,

*Chris Reese*

C. M. Reese  
Assistant Radiation Safety Officer  
Industrial Hygiene Laboratory  
1803 Building  
517/636-0250

dld

Enclosures(3)

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C U R R I C U L U M   V I T A E

Samuel (Kent) Norwood

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PERSONAL INFORMATION

Business:       Dow Chemical U.S.A.  
                  1803 Building  
                  Midland MI 48674  
                  517/636-2081

EDUCATION

- 1984: Ph.D., Environmental Health (Industrial Hygiene): The University of  
Oklahoma, Oklahoma City OK  
Thesis: Estimating Employee Exposures from Continuous Air Monitoring  
Data  
1976: M.S., Environmental Health Sciences (Radiological Health/Industrial  
Hygiene): The University of Michigan, Ann Arbor MI  
1974: B.S., Radiation and Nuclear Technology: Oklahoma State University,  
Stillwater OK

EMPLOYMENT (1976-Present -- The Dow Chemical Company)

- 1985 to    Project Leader: As Supervisor responsible for Technology and Field  
present    Industrial Hygiene, Industrial Hygiene Laboratory, Midland MI  
1981-84:   Senior Research Industrial Hygienist, Industrial Hygiene Laboratory,  
            Midland MI  
1980-81:   Research Industrial Hygienist, Industrial Hygiene Laboratory,  
            Midland MI  
1979-80:   Leave of Absence (Graduate School)  
1976-79:   Industrial Hygienist, Industrial Hygiene Laboratory, Midland MI  
  
1975:       Batelle-Northwest Laboratories, Summer Intern (Health Physics),  
            Richland WA  
1974:       Kerr-McGee Cimmaron Facility, Summer Intern (Health Physics),  
            Crescent OK  
1971:       Kerr-McGee Cimmaron Facility, Summer Intern (Health Physics),  
            Crescent OK

PROFESSIONAL MEMBERSHIPS

American Industrial Hygiene Association  
Michigan Industrial Hygiene Society (Board of Directors 1983-1985)

PROFESSIONAL CERTIFICATIONS

1979: Diplomat, American Academy of Industrial Hygiene (Certificate #1594)

PUBLICATIONS AND PRESENTATIONS: Available upon request.

## PUBLICATIONS -- S. K. Norwood

1. Norwood, S. K., R. A. Olson, and B. R. Thomas: Chemical Cleaning of Nuclear Reactors. *AIHAJ* 39: 829-832, October, 1978.
2. Langner, R. R., S. K. Norwood, G. E. Socha, and H. R. Hoyle: Two Methods for Establishing Industrial Hygiene Priorities. *AIHAJ* 40: 1039-1045, December 1979.
3. Norwood, S. K.: Occupational Exposure Assessment, In Risk Analysis in the Chemical Industry, pp. 61-73, Proceedings of a Symposium conducted by CMA, Washington, D.C. September 1985.

## PRESENTATIONS -- S. K. Norwood

1. Chemical Cleaning of Nuclear Reactors, American Industrial Hygiene Conference, New Orleans, Louisiana, May 1977.
2. Solidification of Carcinogenic Laboratory Waste, Poster Session at the Fall Scientific Meeting, Midland Chapter of the American Chemical Society, Midland, Michigan, October 1977.
3. Health Hazards Ratings, Fall Scientific Meeting, Midland Chapter of the American Chemical Society, Midland, Michigan, October 1977. Also presented at American Industrial Hygiene Conference, Chicago, Illinois, May 1978.
4. Radiation Training Program, The Dow Chemical Company, Great Lakes Health Physics Society Meeting, Lansing, Michigan, April 1979.
5. Dow Solidification of Liquid Radioactive Waste, University of Michigan, Ann Arbor, Michigan, June 1979.
6. Continuous Air Monitoring for Estimating Employee Exposures, Spring Scientific Meeting, Midland, Michigan, March 1982.
7. Validation and Quality Assurance of Continuous Air Monitors for Determining Work Area Concentrations: A Case Study with Methylene Chloride, American Industrial Hygiene Conference, Cincinnati, Ohio, June 1982.
8. A Rational Approach to Industrial Hygiene Sampling, Fall Scientific Meeting, Midland Chapter of the American Chemical Society, Midland, Michigan, October 1982.
9. Cost Effective Evaluation and Operation of Laboratory Hoods, American Industrial Hygiene Conference, Philadelphia, Pennsylvania, May 1983.
10. Protective Equipment Effectiveness for DOWANOL\* Glycol Ethers: Gloves and Respirators, American Industrial Hygiene Conference, Philadelphia, Pennsylvania, May 1983.

\*Trademark of The Dow Chemical Company



11. Estimating Employee Exposures from Continuous Air Monitoring Data: A Case Study with Methylene Chloride, American Industrial Hygiene Conference, Philadelphia, Pennsylvania, May 1983.
12. Optimizing Sampling Strategies by Combining Traditional and Statistical Approaches, American Industrial Hygiene Conference, Philadelphia, Pennsylvania, May 1983.
13. An Evaluation of a Personal Monitoring Device for Chemicals Requiring Impinger or Bubbler Collection Methods, American Industrial Hygiene Conference, Detroit, Michigan, May 1984.
14. Philosophy of Using Respirators for Chemicals Without Warning Properties, American Industrial Hygiene Conference, Detroit, Michigan, May 1984.
15. Optimizing Industrial Hygiene Data for Epidemiology Studies, American Industrial Hygiene Conference, Detroit, Michigan, May 1984.
16. Atmospheric Pressure Mass Spectrometry Applied to Respirator Cartridge Testing of Reactive Chemicals, American Industrial Hygiene Conference, Detroit, Michigan, May 1984.
17. Effects of Low Temperature and Chemical Interferences on the Collection of Methyl Iodide, American Industrial Hygiene Conference, Detroit, Michigan, May 1984.
18. Excursion Exposure Limits: Some Technical Aspects of Decision Making, American Industrial Hygiene Conference, Las Vegas, Nevada, May 1985.
19. The Collection and Management of Occupational Exposure Data, American Industrial Hygiene Conference, Las Vegas, Nevada, May 1985.
20. Service Life Testing of Air-Purifying Elements (Respirators), American Industrial Hygiene Conference, Las Vegas, Nevada, May 1985.
21. Strategy for Industrial Hygiene Sampling, American Society for Testing and Materials, Boulder, Colorado, August 1985.
22. Occupational Exposure Assessment, CMA Symposium: Risk Assessment In The Chemical Industry, Washington, D.C., September 1985.

J. JAMES BROZZO

Present Employment

Major Manager  
Oxides, Derivatives/Brine Chemicals/Energy & Utilities  
Michigan Division  
Dow Chemical U.S.A.  
Midland, MI 48667  
517-636-2234

Previous Experience

Plant Manager  
Allyn's Point Plant  
Dow Chemical U.S.A.  
Ledyard, CT 06339

Section Manager  
Designed Polymers & Monomers Section  
Michigan Division  
Dow Chemical U.S.A.

Research & Development including:  
Technical Director  
Process Development

Marketing Development  
Technical Service & Development

Economic Evaluation

CURRICULUM VITAE

DALE B. HYLTON, M.D.

Academic Record:

Bachelor of Arts Degree - University of Colorado - Boulder, Colorado.  
June, 1949.

Doctor of Medicine Degree - New York Medical College - New York,  
New York. June, 1953.

University of Colorado Medical Center - Denver General Hospital -  
Community Internship. Denver, Colorado. July 1, 1953 - June 30, 1954.

Military Service:

1944-1946. U.S. Navy. Pharmacist Mate 3/c.

Professional Groups:

American Medical Association  
American Academy of Family Physicians. Fellow-October 2, 1973.  
American Occupational Medical Association. Fellow-April 18, 1973.  
The American Academy of Occupational Medicine.  
The American College of Preventive Medicine.  
Diplomate of the National Board of Medical Examiners. July 1, 1954.

Licensure:

State of Colorado.  
State of Michigan.  
State of Arizona.  
State of Wyoming.  
State of Ohio.  
Valid Controlled Substances Registration Certificate.



## Experience:

July, 1954 - December, 1965. Private General Practice of Medicine in Denver, Colorado.

January, 1966 - December, 1967. Staff Physician, Rocky Flats Division of The Dow Chemical Company. Golden, Colorado.

January, 1968 - January, 1975. Medical Director, Rocky Flats Division of The Dow Chemical Company. Golden, Colorado.

January, 1975 - September, 1976. Medical Director, Western Electric Phoenix Works. Phoenix, Arizona.

September, 1976 - March, 1978. Medical Director, Allied Chemical Green River Works. Green River, Wyoming.

March, 1978 - present. Medical Director of the Eastern/Central Division of Dow Chemical USA. Strongsville, Ohio.

## Publications:

Plutonium Content of Several Internal Organs Following Occupational Exposure. American Industrial Hygiene Association Journal. Vol. 30. July - August, 1969.

Preliminary Autopsy Findings in U. S. Transuranium Registry Cases. Radionuclide Carcinogenesis. AEC Symposium Series 25. May, 1972.

Distribution of Plutonium and Americium in the Body 5 Years after an Exposure via Contaminated Punctured Wound. Health Physics. Vol. 22. June, 1972.

Distribution of Plutonium and Americium in Occupationally Exposed Humans as found from Autopsy Samples. Health Physics. Vol. 25. December, 1973.