



CURRICULUM VITAE

NAME

James W. Hammond, B.S., Ch.E., M.S., P.E.

BORN

February 2, 1913
Winona, Mississippi

POSITION

Associate Professor of Industrial Hygiene (Retired)
University of Texas
School of Public Health

EDUCATION AND TRAINING

Mississippi State University, 1930-1935, B.S.
Louisiana State University, 1935-1937, M.S.
Massachusetts Institute of Technology, Industrial Chemistry, 1941-1942
University of South Carolina, Post Graduate Work in Chemical Engineering, 1945-1947
Rice, Post Graduate Work in Chemical Engineering, 1948-1949
Mississippi State University, 1952, Ch.E.
Certified American Academy Sanitary Engineers
Diplomate of American Academy of Environmental Engineers
Certified in Comprehensive Practice of Industrial Hygiene by the
American Board of Industrial Hygiene
Certified in Coal Mining Noise Survey and Control Techniques by the
U.S. Bureau of Mines
Certified Safety Professionals of the Americas
Registered Professional Engineers of Texas

EXPERIENCE

1936-1940	University of Tennessee, Chemical Environmental Engineering Research
1940-1942	Industrial Hygiene Engineering USPHS Division of Occupational Diseases, Massachusetts
1942-1946	USPHS and Chemical Industrial Health Engineer, Department of Health, South Carolina
1947-	Associate Director, Division of Occupation Health, Georgia State Department of Health
1947-1959	Industrial Hygienist and Sanitary Engineer, Humble Oil

EXPERIENCE: (continued)

1959- Chief Industrial Hygienist, Headquarters, Humble Oil
1961- Director of Industrial Hygiene, Humble Oil
1965-1978 Director of Industrial Hygiene, Exxon Company, U.S.A.

PROFESSIONAL ASSOCIATIONS

American Industrial Hygiene Association: Board of Directors, 1951-1954;
Chairman, Local Sections Committee, 1953-1955;

Awards Committee, 1953-1955

General Conference Chairman, 1965

American Academy of Industrial Hygiene, President, 1976-1977

American Board of Industrial Hygiene, Director, 1969-1974

Industrial Hygiene Roundtable British Occupational Hygiene Society,
1960-1978

Gulf Coast Section, American Industrial Hygiene Association, Past
President Air Pollution Control Association, 1952-1966

Texas Public Health Association, 1947-1955

American Petroleum Institute, Committee on Medicine and Environmental
Health, Industrial Hygiene Committee, Past Chairman (Recipient of API
Certificate of Appreciation, 1967)

Manufacturing Chemists' Association, Labels and Precautionary
Information Committee, and Occupational Health Committee American Water
Works Association, 1948-1975

Texas Safety Association, Executive Committee, 1975-1977

Representative of U.S. Department of Labor in Industrial Hygiene
Seminar at 1970 Bucharest International Fair, Romania

AWARDS AND HONORS

Gulf Coast Section A.I.H.A. established James W. Hammond Award to
Outstanding graduate of both Texas A&M University and U.T. School of
Public Health in Field of Occupational Hygiene.

Selected to receive the 1982 Henry F. Smyth Award from the American
Academy of Industrial Hygiene

AWARDS AND HONORS (continued)

TLV Committee, A.C.G.I.H., Chairman of Subcommittee on Hydrocarbons and Oxygenated Hydrocarbons

Director, Hygienic Guides Committee, 1965-1966

Past Director, Houston Poison Control Center

"Who's Who In Engineering"

Honorary Membership for Life, American Industrial Hygiene Association

TEACHING EXPERIENCE

Assistant Professor Industrial Hygiene, Georgia Institute of Technology, 1947-48

Instructor, University of Texas, Post Graduate School of Medicine, 1948-1960

Assistant Professor of Industrial Hygiene, Continuing Education, Short Schools, University of Oklahoma, 1960-1974

Clinical Associate Professor, Department of Industrial Hygiene, The School of Public Health, 1967-1978

Clinical Associate Professor, Department of Industrial Hygiene, Wichita State University, 1974-1977

Other Appointments: Houston Board of Health, 1954-1964

San Jacinto Lung Association Air Conservation Committee, 1967-1977
Occupational Health Committee, 1982

PUBLICATIONS

J.W. Hammond with W.H. MacIntire et al.: Development of P_2O_5 Insolubility in Phosphatic Mixtures: The Formation of Fluorapatite As Its Cause, Industrial and Engineering Chemistry, 29:758-766, July 1937.

J.W. Hammond and E.A. Fieger: Petrographic Analysis of Soil Fractions, Soil Science, Vol. 48, January 1938.

J.W. Hammond and W. H. MacIntire: Removal of Fluorides From Natural Waters by Calcium Phosphates, Industrial and Engineering Chemistry, 30:160-162, February 1938. Note: U.S. Patent 2126793 granted on this work

J.W. Hammond and W.H. MacIntire: Use of Peroxides of Calcium and Magnesium in Determination of Fluorine Content of Soils, Siliceous Materials, and Organics, Journal of the Association of Official Agricultural Chemists, XXII:231-236, May 1939.

J.W. Hammond and W.H. MacIntire: Thorium Nitrate Titration of Micro Quantities of Fluorine in Aqueous and Alcoholic Systems, Journal of the Association of Official Agricultural Chemists, XXIII:399-404, May 1940.

J.W. Hammond, W.H. MacIntire, L.J. Hardin, and S.H. Winterberg: Nature and Liming Value of Quenched Calcium Silicate Slag, Soil Science, 50:219-232, September 1940.

J.W. Hammond, H.B. Elkins, and E.D. Storlazzi: Determination of Atmospheric Contaminants, II--Methyl Cellosolve, Journal of Industrial Hygiene and Toxicology, 24:229, No. 8, October 1942.

J.W. Hammond: Removal of Fluorides from Potable Waters, The South Carolina State Board of Health publication, "Out of the Spigot," July 1943.

J.W. Hammond: Metal Fume Fever in the Crushed Stone Industry, The Journal of Industrial Hygiene and Toxicology, Vol. 26, No. 4, April 1944.

J.W. Hammond: Hygiene Problems in the Textile Industry, Safety Engineering, Vol. 93, No. 5, May 1947.

J.W. Hammond: Hygienic Study of the Paint Department at Baytown Refinery Medical Division; and Hygienic Study of the Lead Burning Department at Baytown Refinery, The Medical Bulletin, Vol. 11, No. 2, April 1951.

J.W. Hammond and R.W. Pipkin, M.D.: Coproporphyrin Determination and Urinary Lead Relationship - Experiences in an Industrial Hygiene Laboratory, American Industrial Hygiene Association Quarterly, Vol. 13, No. 3, September 1952.

J.W. Hammond with R.J. Davis: Health and Ventilation in an Air Conditioned Shop, Heating and Ventilation, January 1953.

J.W. Hammond, F. Pretsch, and R.W. Piokin, M.D.: Hygiene Study of the Paint Department, Baytown Refinery, The Medical Bulletin, Vol. 13, No. 2, June 1953.

J.W. Hammond: Recommended Insect Control Methods and Pesticides, The Medical Bulletin, 1954.

J.W. Hammond: Industrial Hygiene in the Petroleum Industry, presented at Medical and Health Group Session, 35th Annual Meeting of the American Petroleum Institute, San Francisco, California, API Proceeding, November 14, 1955.

J.W. Hammond: Now They're Blueprinting Industrial Hygiene, Oil and Gas Journal, November 21, 1955.

J.W. Hammond: Industrial Hygiene Laboratory Tests as an Adjunct to Medical Control of Occupational Diseases, The Medical Bulletin, October 1954; revised May 17, 1955.

J.W. Hammond: Keeping Well at Work, The Humble Way, Vol. XI, No. 5, January-February 1956.

J.W. Hammond: Recommended Insect Control Methods and Pesticides, The Medical Bulletin, March 1956.

J.W. Hammond, Dr. V.C. Baird, and Dr. B.E. Bennison: An Analysis of Cancer Mortality in Employees and Annuitants of an Oil Company and an Oil Pipe Line Company, The Medical Bulletin, Vol. 18, No. 1, March 1958. J.W. Hammond: Industrial Hygiene Features of Benzene Plant Design, The Medical Bulletin, Vol. 18, No. 2, July 1958.

J.W. Hammond: Industrial Hygiene Features of a Petro-Chemical Benzene Plant Design and Operation, reprinted from American Industrial Hygiene Association Journal, Vol. 32, No. 3, April 1960.

J.W. Hammond: Humble Cares, First-Aid Information Given to Poison Control Centers, Humble News, 1963.

J.W. Hammond: Information for Poison Control Centers, Humble Medical Department, Distributed to Poison Control Center through National Poison Center, HEW, Bethesda, Maryland, February 7, 1963.

J.W. Hammond: Occupational Health Aspects of Pesticides, from Proceedings of the Short Course on this subject, held November 20-23, 1963, University of Oklahoma.

J.W. Hammond: Guidelines for a Chemical Plant in Preparation for an OSHA Inspection, The Medical Bulletin, Winter 1974.

J.W. Hammond: Safe Practices When Working with Hydrogen Sulfide, Proceedings of the 42nd Midyear Refining Division Meeting, American Petroleum Institute, May 10, 1977.

J.W. Hammond: A Professional Crisis, Guest Editorial, Journal of American Industrial Hygiene Association, February 1977.

J.W. Hammond: Living Certification, Guest Editorial, Journal of American Industrial Hygiene Association, August 1977.

LECTURER AT THE FOLLOWING

J.W. Hammond: Determination of Poison Gas, The S.C. Water Works Association, November and December 1942.

J.W. Hammond: Hygienist's Services the Medical Department, presented at a meeting of Standard Oil of Jersey affiliates, New York, October 1947.

J.W. Hammond: Further Developments and Experiments of Submerged Biological Filter, Semi-Annual Meeting of the Division of Civil Engineers, November 1947.

J.W. Hammond: Industrial Hygiene Program in oil Production, Civil Engineers Meeting, December 1947.

J.W. Hammond with Dr. V.C. Baird: An Industrial Hygiene Program in the Oil Industry, presented before the Engineering Section, Texas Public Health Association meeting, Houston, Texas, February 1948.

J.W. Hammond: Chlorination of Drinking Water, Division of Civil Engineers Meeting, April 1949. J.W. Hammond: Industrial Hygiene Problems in a Refinery and Services Rendered by an Industrial Hygienist to the Medical Department, presented at an Annual Meeting of the Texas Public Health Association, 1949.

J.W. Hammond: Maximum Allowable Concentrations, presented at the meeting of Industrial Hygienists of Jersey affiliates, Linden, New Jersey, February 1952.

J.W. Hammond: Industrial Hygiene Activities in Humble, presented at the Seminar for Foreign Affiliate Companies (Standard Oil Co., N.J.), S.O.D. Laboratories, Linden, New Jersey, November 1952.

J.W. Hammond: Humble Environmental Health Program, presented at the Alabama Public Health Workers Conference, March 1953.

J.W. Hammond: Air Pollution Development in Harris County, presented at Dallas Branch of Texas Society of American Society of Civil Engineers, June 1953.

J.W. Hammond: Bio-Chemical Test as Tool for Industrial Exposure Evaluation, presented at the Gulf Coast Section of American Industrial Hygiene Association, Kelly Air Force Base, Texas, January 1954.

J.W. Hammond: Safety and Fire Protection in Petrol-chemical Industry and Toxicity of Petrochemical Gases and Solvents, Panel (API), April 1955.

J.W. Hammond: Economic Consideration in Lead Poison Control or Prevention and Industrial Hygiene in the Petroleum Industry, presented at 35th Annual API meeting, San Francisco, November 14, 1955.

J.W. Hammond: Presiding Officer Remarks, Industrial Hygiene Radiation Seminar, University of Texas, May 1957

J.W. Hammond: Lead Exposure in Cleaning and Repairing of Tankage in High Octane Gasoline Service, presented at the Hersey Affiliates' Industrial Hygiene Meeting in Toronto, Summer 1957.

J.W. Hammond: Industrial Hygiene Problems in the Petroleum Industry, Seminar on Industrial Health, School of Public Health, College of Medicine, University of Cincinnati, February 1957.

J.W. Hammond, Dr. E.R. Hermann and R.T.S. Howell: Industrial Hygiene Features of Petro-Chemical Benzene Plant Design and Operation, presented to American Industrial Hygiene Association at the 1959 Industrial Health Conference, Chicago, Illinois, April 1959, (presented by Dr. E.R. Hermann).

J.W. Hammond: Industrial Hygiene Services for Exploration and Production in an Oil Co., April 1960.

J.W. Hammond: Humble Cautionary Labeling Program, April 1961.

J.W. Hammond: Experiences of Humble with Air Contamination Prevention Program, presented at Northwest Association of Occupational Medicine, Portland, Oregon, September 10, 1961.

J.W. Hammond: Handling, Labeling and Storage of Chemicals, presented at the 8th Annual Pacific Northwest Industrial Health Conference, Portland, Oregon, September 11, 1961.

J.W. Hammond: The Technology of Labeling, presented at Manufacturing Chemists Association 11th Semi-Annual Meeting and Midyear Conference, November 21, 1961.

J.W. Hammond: Toxicological Hazards of Company Products, presented at Consumer Products Training Course, 1962, 1963, 1964, 1965.

J.W. Hammond: The Hazards of Pesticides as Used in the Petroleum industry, presented at 25th Annual Texas Safety Conference, Dallas, Texas, March 15-18, 1964.

J.W. Hammond: Methods of Surveying Toxic Exposure in Occupational Environment, presented at American Medical Association 24th Annual Congress on Occupational Health, September 27, 1964; presented annually at Baylor University, College of Medicine.

J.W. Hammond: New Products with Industrial Hygiene Characteristics from Petroleum Industry, presented at Tennessee Valley Industrial Hygiene Conference, Gatlingburg, Tennessee, October 1965.

J.W. Hammond: Proper Selection of Protective Equipment; Welding and Related Crafts, presented at the University of Oklahoma Short Course on Use of Protective and Safety Equipment, November 28-30, 1966.

J.W. Hammond: Labeling Practices - Hazardous Chemicals, Use in Industrial Plants, presented at Louisiana Safety Conference, New Orleans, December 12, 1966; was also presented at "Orientation in Occupational Health for Health Personnel" conducted by USDEW, TSDH, Harris County Health Department and Houston City Health Department, in Houston, November 2, 1966.

J.W. Hammond: Proper Selection of Protective Equipment; Welding and Related Crafts, presented at 28th Annual Texas Safety Conference, March 22, 1967.

J.W. Hammond: Guard Your Health, presented for General Services Department, Humble Building, September 12, 1967.

J.W. Hammond: Herbicide Safety, presented to Texas A&M University, College of Agriculture's Second Annual Industrial Weed Control Conference at College Station, October 23, 1967; also presented at the Annual Texas Safety Association Conference, Dallas, March 18, 1968.

J.W. Hammond: Practical Application of Threshold Limit Value, presented at Texas Safety Association Conference, March 20, 1968.

J.W. Hammond: Occupational Health Hazards in Housekeeping Operations, presented at Institute for National Executive Housekeepers' Association, March 29, 1969.

J.W. Hammond: Product Liability of Industrial Chemicals, presented at American Industrial Hygiene Association Conference, Denver, Colorado, May 15, 1969.

J.W. Hammond: Chemical Hazards in Industry, Farm and Home, presented at Texas Employers' Insurance Association Conference, Dallas, Texas, June 1969.

J.W. Hammond: Living with Occupational Health Legislation, presented at 34th Annual Meeting, Industrial Hygiene Foundation, October 14-15, 1969.

J.W. Hammond: Living with Walsh-Healey and Similar Federal Occupational Safety and Health Standards, presented at Humble Safety Meeting, Houston, November 18, 1969.

J.W. Hammond: Precautionary Labeling of Hazardous Industrial Substances, presented at Industry and Commerce Seminar, Corpus Christi Chapter of the American Society of Safety Engineers, January 22, 1970.

J.W. Hammond: Industrial Hygiene Challenges of the 70's, presented at the National Petroleum Refiner's Association meeting, June 11, 1970.

J.W. Hammond: Disposal of Chemical Wastes, presented at Texas Firemen's Training School, Engineering Extension Service, Texas A&M University, July 29-30, 1970.

J.W. Hammond: Industrial Hygiene Problems in a Refinery or Chemical Plant and Services Rendered by an Industrial Hygienist, lecture notes for Bucharest Romania, October 1970.

J.W. Hammond: The Flammability, Toxicity and Allowable Limits of Some Industrial Gases, presented at 1970 Bucharest, Romania International Fair; also presented to Baylor Medical School students, January 1971.

J.W. Hammond: Industrial Hygiene Activities in Romania, Washington debriefing; also presented to Gulf Coast Section - AIHA, January 1971.

J.W. Hammond: Noise Considerations in 1971, presented to the Natural Gas Processors Association, February 18, 1971.

J.W. Hammond: How Air and Water Pollutant Control Affects Occupational Health Engineering, presented at Seminar at University of Texas School of Public Health, May 1971.

J.W. Hammond: Health Hazards and Occupational Diseases, presented at Louisiana State University at the 18th Annual Safety Course, August 1971.

J.W. Hammond: Noise, Tomorrow's Public Health Problem, Annual Convention of the Mississippi Public Health Association, Jackson, Mississippi, October 1971.

J.W. Hammond: Health Hazards and Occupational Diseases, Annual Conference of American Society of Safety Engineers, College Station, February 1972.

J.W. Hammond: Lecture on Solvents, presented at the University of Texas School of Public Health, Houston, March 1972.

J.W. Hammond: A Review of Chemical Substances under OSHA, presented at the Third Annual International Maintenance Institute Seminar on "Occupational Safety and Health Act of 1970," May 1972.

J.W. Hammond: Fundamental Concepts of AIHA, American Society of Safety Engineers, and Local Chapter of the National Safety Council Short Course on "Fundamentals of Solving Health Problems in Industry," December 1972.

J.W. Hammond: Industrial Hygiene Problems, 1973 Gas Conference, June 5-7, 1973.

J.W. Hammond: Decanted Oil, Internal publications for Exxon Employees.

J.W. Hammond: 1973 Summer Training Institute for Occupational Safety and Health Instructors, Texas A&M, July 27, 1973.

J.W. Hammond: New Developments in Precautionary Labeling and Marking for Petroleum Products, Houston meeting of Packaging, Warehousing, and Shipping Personnel, November 1973.

J.W. Hammond: Phenol Hazards, Exxon employee training material, December 4, 1973.

J.W. Hammond: The Energy Crisis and Its Impact on Public and Occupational Health, Texas Public Health Association Meeting, February 1974.

J.W. Hammond: Occupational Health Problems in the Oil Field, presented at the Annual Safety Chairman's Conference, South Texas Production Division, Corpus Christi, Texas, February 1975.