



**Causey Engineering
LLC**

Gerald J. Hietpas, PE
President

Causey Engineering LLC

"Forensic and Investigative Services"

PO Box 341057-0018

Austin, TX 78734

www.CauseyEngineering.com

Phone & Fax (512) 261-3930

jhietpas@austin.rr.com

Curriculum Vitae

JOSEPH D. WENDLICK, MSCh



Mr. Wendlick is an Associate of Causey Engineering, LLC. Causey Engineering has for over 18 years been providing forensic and investigative engineering services and litigation support, specializing in industrial, utility and construction issues. Mr. Wendlick has particular experience as an Industrial Hygienist, Toxicologist, and Analytical Chemist.

Education:

Oregon State University

BS, Chemistry, 1962

MS, Analytical Chemistry, 1965

Registrations:

CIH - Certified Industrial Hygienist, 1974 – 2004

Work Experience:

Causey Engineering LLC, Austin, TX 2006 to Present

Forensic Expert: Provide Forensic and investigative work related to Industrial Hygiene, Toxicology, and Analytical Chemistry. Causey Engineering provides engineering analysis, governmental regulation investigation and research, accident reconstruction and litigation support primarily related to oil and gas, refineries, chemical and petrochem plants, central power stations, electronic manufacturing, food processing, pulp and paper, lumber manufacturing, industrial construction, and warehousing.

Occupational, Environmental & Product Health Services, January 1986 to Present

President: Offering a full range of services in occupational, environmental and product health issues to a broad spectrum of clients, nationwide as well as internationally. Conducted workplace air-contaminant evaluations on occupational exposures and opined on many substances in many forms, including fibers, gases, dusts, mists, liquids, and molds/fungi. Worked with other top industrial hygienists, including developing industrial hygiene information for OSHA, several states, and others.

Weyerhaeuser Company, 1973-1985

Corporate Industrial Hygienist: Responsible for directing all aspects of Weyerhaeuser Company's Occupational Health/ Industrial Hygiene/Toxicology program worldwide. Established a close working relationship with all major Company manufacturing divisions and corporate staff groups. These relationships ultimately resulted in divisional financial support of research projects designed to establish health effects of various exposures and set internal standards of good practice to protect employee health.

Developed an industrial hygiene program for operations in all company wood products and pulp and paper manufacturing operations, transportation depots, distribution centers, logging operations, satellite repair shops, offices, warehouses, nurseries, converting operations, recovery operations, by-product utilization plants, co-generation facilities, rail and shipping facilities, real estate development projects, etc., with emphasis on employee medical surveillance, employee protection and education. This included a comprehensive formaldehyde monitoring program

Served as Weyerhaeuser Company's and the Forest Products Industry's representative to international conferences, symposia and workshops pertaining to key industrial health issues

Served as principal advisor to the Weyerhaeuser Company Law Department, Insurance Department and Worker's Compensation Department on claims and lawsuits involving occupational health, community health (air pollution) and product liability, from health-related perspectives.

Weyerhaeuser Company, 1971-1973

Research Industrial Hygienist: Responsible for establishing the first comprehensive industrial hygiene program in the forest products industry in North America. Identified key workplace hazards across all Company operations and developed programs to correct highest priority health hazards.

Weyerhaeuser Company, 1966-1971

Senior Product Development Chemist: Developed fire-rated wood and mineral products and ionizing radiation-shielded products (lead core x-ray doors).

Crown Zellerbach Corporation, 1960-1961, summers of 1962 and 1963

Synthetic Organic Chemist: Studied the solvent characteristics of dimethyl sulfoxide (DMSO) and its ability to form complexes with inorganic salts much the same as waters of hydration.

Worked with Robert Herschler, co-discoverer of the medical applications of DMSO, in preparing medically pure DMSO for clinical evaluations at the University of Oregon Medical School (now Oregon Health Sciences University).

Professional/Charitable Organization Memberships:

American Academy of Industrial Hygiene [Certified Industrial Hygienist (CIH) for 30 years]
American Association for the Advancement of Science
American Chemical Society
American Conference of Governmental Industrial Hygienists
American Industrial Hygiene Association

American Lung Association of Washington [1984-1986], Past President
American Lung Association, National Board of Directors [1988-1996], Past Chairman,
Occupational Health and Occupational Lung Disease Committee and Expert Advisory Group
American Lung Association [1987-1999], Past Member [Twelve (12) Years],
National Board of Directors and National Council of Delegates –
American Lung Association/ American Thoracic Society [1993-1997], Past Chairman,
National Air Conservation Commission
American Lung Association of Washington Board of Directors [2000-2003], Past Chairman
Air Quality Committee
American Public Health Association
American Society for Testing and Materials – Committee E50 Environmental Standards
Association of Occupational and Environmental Clinics
Hungarian Biochemical Society; Budapest, Hungary - Scientific Advisory Committee on
“Formaldehyde and Its Role in Biological Systems”
International Committee for “The Achievement of Science & Research for the Benefit of the
Working People” – General Federation of Labour (Histadrut) in Tel Aviv, Israel
New York Academy of Sciences
Sigma Xi, The Scientific Research Society
Washington Thoracic Society, Occupational Lung Disease Advisory Committee

Publications:

Co-author of a paper reporting on a comprehensive workplace study of *“Formaldehyde-Exposed Workers and Associated Health Effects”*. The paper was published in the 5 February 1988 issue of the *Journal of the American Medical Association*.

Considered in 1975-1989 as one of the North American Forest Products Industry authorities on asbestos, wood dust, chromated copper arsenate (CAA)-treated wood exposures, formaldehyde, forest and regeneration pesticides and fumigants, pentachlorophenol health effects, sulfur dioxide, hydrogen sulfide, organosulfur compounds (mercaptans, sulfides and disulfides), microbiological hazards, solvents, hazard recognition, workers' compensation claim investigations and communication to workers on health hazards in the workplace.

Wrote a comprehensive manual on Styrene in 1976, which was widely used throughout the Weyerhaeuser Company wherever fiberglassing work was performed.

Wrote Chapter 36 on *“Dermatitis in the Forest Products Industry”* for the 2nd Edition of Howard Maibach, M.D.'s *Industrial and Occupational Dermatitis* text, published in January 1987.

Presentations:

Delivered 154 public presentations on topics of industrial hygiene, occupational medicine, environmental investigations, environmental health and occupational health since commencing work in industrial hygiene in 1972. These are in addition to papers and presentations conducted inside company businesses, staff groups, regions, operations and offices.

A sampling of titles from public presentations given include, but are not limited to:

- *“Analytical Methods for Definitively Characterizing Magnesium Carbonate, Calcium Silicate Hydrate and Portland Cement Matrices for Asbestos Fibers: Implications for Fingerprinting Manufacturers of Asbestos-Containing Products”*
- *“Asbestos Control - An Industrial Experience”*
- *“Asbestos Fiber Sampling Methods”*

- *"Blood Dyscrasias: A Solvent Connection?"*
- *"Building Trust for Occupational and Environmental Health Issue Resolution"*
- *"Cancer in the Forest Products Industry"*
- *"Cancer: What Is It and What Is Its Occupational Connection?"*
- *"Communicating Sensitive Health Hazard Information"*
- *"Comprehensive Indoor Air Quality Investigations: Dispelling the Fiction"*
- *"Confounding Factors and Differential Diagnoses, the Bane of Assumptions"*
- *"Dermatitis in the Forest Products Industry"*
- *"Detailed, Comprehensive and Profound Investigations of Occupationally-Related and Allegedly Occupationally-Related Health Conditions and Disease"*
- *"Dioxins in Pulp and Paper Manufacture: A Toxicological Perspective"*
- *"Employee Exposures to Formaldehyde Gas during Manufacture and Fabrication of Doors and Fire-rated Doors"*
- *"Employee Formaldehyde Exposures in Hardwood Plywood Manufacturing Plants"*
- *"Exposures To Lead Fumes Among Welders Burning Lead-Based Paints Off Painted Steel Beams" "Health Effects of Asbestos"*
- *"Formaldehyde: A Health Perspective"*
- *"Formaldehyde: A Summary of Epidemiological Studies"*
- *"Formaldehyde Exposures in Corrugated Shipping Container Production"*
- *"Formaldehyde Exposure Profiles for Particleboard Manufacturing Plant"*
- *"Formaldehyde Gas Concentrations around Paper Machines during Wet-Strength Kraft Paper Production"*
- *"Fungi and Molds in the Built Environment: A Perspective on a Widely Distorted and Exaggerated Issue"*
- *"Health Effects of Formaldehyde"*
- *"Health Effects of Non-Pressure Applied Tetra/Pentachlorophenates in Working Populations"*
- *"Health Effects of Welding"*
- *"Health Hazards of Exposure to Organosulfur Compounds in a Pulp Mill Environment"*
- *"Health Hazards of Hard Metal Grinding"*
- *"Health Hazards of Power Generation"*
- *"Health Study of a Wood Products Pressure Treating Plant Population Using Pentachlorophenol/Tetrachlorophenol"*
- *"Health Study of Employees Working With Chromated Copper Arsenate (CCA) in Wood Treatment"*
- *"Histoplasmosis in an Oriented Strandboard Plant"*
- *"Investigating and Dimensioning the Enormity of Environmental Mercury Contamination at Kazincbarcika: The Single Most-Contaminated Site in Hungary"*
- *"Latent Defect Potential Liabilities in Property Transfer"*
- *"Lead Dust/Fume Exposures In X-Ray Door Fabrication"*
- *"Low-Level Exposures to Airborne Asbestos in Urban, Suburban, Rural and Wilderness Environments"*
- *"Lungs: Their Anatomy, Physiology, Function, Evaluation and Response to Pulp Mill Gases"*
- *"Managing Asbestos and Other Hazardous Substances in Commercial Properties"*
- *"Maple Bark Disease"*
- *"Mechanisms of Probable Causation in Wood-Dust-Related Cancers of the Paranasal Sinuses"*
- *"Medical Surveillance for Employees Exposed to Asbestos"*
- *"Microbiological Hazards in the Forest Products Industry"*
- *"Mutagens in the Occupational Environment"*
- *"Mycotoxicosis at a Chip Unloading Facility"*
- *"Nursery Pesticides: A Perspective"*
- *"Perspectives on Hazardous Substances in Commercial Properties"*

- *"Polychlorinated Biphenyls (PCBs) and Their Associated By-Products: Health Implications"*
- *"Priority Health Targets for Pulp and Paper Manufacture"*
- *"Priority Health Targets for Woods/Logging Operations"*
- *"Priority Health Targets for Wood Products Operations"*
- *"Psychogenic Symptoms and Illnesses in Office Building Settings"*
- *"Sampling and Analysis Methods for Formaldehyde"*
- *"Spectrum of Aerial and Airborne Agents Involved in Indoor Air Quality Investigations"*
- *"The Growing Need for Medical Surveillance"*
- *"The Meadow Project: Identification, Quantification and Remediation of a Heavily-Contaminated, Twenty (20)-Acre Site"*
- *"The Pneumoconioses"*
- *"Toxic Tort Liability: An Emerging Threat"*
- *"Wood Dust; Effects on Man and Industry"*
- *"Wood Dust Exposure and Nasal Cancer in the High Wycombe District of England"*
- *"Wood Processing Health Hazards; Degree of Risk"*
- *"Workplace Monitoring of Polyacrylate Aerosols and Dusts"*

Public presentations mentioned above were given at universities, national and international conferences, symposia and workshops, clinics and medical schools, hearings (federal, state, provincial), governmental agency meetings, public forums, industry panels, and town meetings.

Forensic Experience:

Cases Worked are 193, Depositions Given is 17, Trial Testimony Given is 14.

Use of this CV is prohibited until we have a mutually signed agreement concerning your engagement of Causey Engineering LLC. Pending such, the use of our name is also prohibited, and we reserve the right to accept assignment by others in lieu of your firm.