

EVIDENTIA

ENGINEERING INC.



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LENNARD WHARTON, Ph.D., P.E.

Dr. Wharton is a chemical engineer and physical chemist and brings to clients thirty years of experience as a member of top management, as a manager of industrial development and research in the process equipment, microelectronics equipment, rotating machinery and electrical equipment industries, and as a teacher of chemistry and a principal investigator in experimental research on chemical reactions and chemical structures.

Dr. Wharton undertakes client-related activities directed to investigating, reconstructing, and explaining rare events and failures; solving problems in manufacturing and processing, in development and application of products, and in management of technical activities; applying relevant standards; and designing and conducting probative tests and experiments.

Prior to forming Evidentia Engineering, Dr. Wharton was Chairman of the Board, Vice President and Director of the Chemical, Fire & Explosion activities, and he supervised the Electrical Engineering activities of Packer Engineering. He has been a technical consultant to Gould Corporation, Northrop Corporation, and the United States Department of Defense. Formerly, he was Vice President of Technology at Materials Research Corporation, Vice President of Engineering and Technology at Studebaker-Worthington Corporation, and the ITE-Imperial Corporation. He was full Professor of Chemistry at the University of Chicago.

EDUCATIONAL HISTORY

B.S. Chemical Engineering
M.I.T.

M.A. Chemistry
Cambridge University

Ph.D. Physical Chemistry
Harvard University

PROFESSIONAL AFFILIATIONS

IEEE Senior Member

American Institute of
Chemical Engineers

National Fire Protection
Association

American Management
Association, R&D Council

American Society of
Mechanical Engineers

Dr. Wharton has eighty peer reviewed publications and patents in his technical and scientific fields, and numerous awards and fellowships. He has made technical presentations at local, national and international conferences.

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Professional Experience of Lennard Wharton, Ph.D., P.E.

POSITIONS HELD:

President and Founder
Evidentia Engineering, Inc. 1995 - present

Chairman of the Board
Packer Engineering, Inc. 1994 - 1995

Vice President
Packer Engineering, Inc. 1987 - 1995

Vice President, Technology
Materials Research Corporation 1983 - 1987

Vice President, Engineering and Technology
Worthington Division McGraw-Edison Co. 1979-1985

Vice President of Technology
Studebaker-Worthington Corp. 1978-1979

Professor, Department of Chemistry
University of Chicago 1963-1972 and 1973-1978

Vice President, Engineering
ITE-Imperial Corp Power Equipment Group 1972-1973

Junior Fellow, Harvard University Society of Fellows 1960-1963

MAJOR CONSULTANTSHIPS:

Gould Corp Scientific Advisory Board 1973-1978
Northrop Corp 1977-1978

PUBLICATIONS:

Author of 76 Peer-Reviewed Scientific Journal and Monograph Articles and 4 Patents

EDUCATION:

Harvard University, Ph.D. Physical Chemistry 1963
Cambridge University, St. John's College, M.A. Chemistry 1960
Massachusetts Institute of Technology, B.S. Chemical Engineering 1955
Phillips Exeter Academy 1947-1951

AWARDS:

Outstanding Young Man of Chicago, Chicago Jr. Chamber of Commerce & Industry
Alfred P. Sloan Research Fellow, University of Chicago
Junior Fellow, Harvard University
National Science Foundation Fellow, Harvard University
Marshall Scholar, Cambridge University
R. D. Hunneman, AIChE Prizes, Tau Beta Pi, Sigma Xi, MIT
Westinghouse Science Talent Search, National Scholarship Winner 1951
Who's Who in America

MEMBERSHIPS & COMMITTEES:

American Society of Mechanical Engineers
American Institute of Chemical Engineers
Senior Member Institute of Electrical and Electronic Engineers
American Physical Society
American Management Association
AMA Research and Development Council
Industrial Research Institute
IRI Editorial Board
"Review of Scientific Instruments", Editorial Board
"Journal of Chemical Physics", Editorial Board

DEPARTMENT OF DEFENSE:

Pentagon Advisory Committee, Ballistic Missile Defense, ARPA Project DEFENDER, 1966-1969
National Academy of Science and US Navy Undersea Warfare Analysis, Woods Hole, Summer 1969

COMMUNITY:

MIT Educational Council 1983-Present
MIT - Osiris 1955, Alumni Vice President MIT Class of 1955, 1960-1965
Board of Directors, Harvard Cooperative Society 1954-1955
Winnetka School Budget Priorities Committee 1976-1978
Elected Representative Winnetka Town Caucus 1974-1978

FAMILY:

Married: Judith Gordon 1957
1971 Children: Ruth 1963, Rebecca 1964, Nathaniel 1971



DEPARTMENT OF THE NAVY
NAVAL REGIONAL MEDICAL CLINIC, HAWAII
BOX 121
PEARL HARBOR, HAWAII 96360

144:RMBby
6260
Ser 14-130
23 May 1979

From: Commanding Officer, Naval Regional Medical Clinic, Hawaii
To: Commander, Pearl Harbor Naval Shipyard (Attn: Code 140)

Subj: Industrial Hygiene Survey of Airborne Asbestos Concentrations
from Vinyl-Asbestos Tile Operations; report on

Ref: (a) Code 140 memo B-104 Code 142.123 of 9 May 1979
(b) DHEW Criteria for a Recommended Standard ... Occupational
Exposure to Asbestos, NIOSH Publication HSM 72-10267, 1972
(c) OSHA 2206 (29 CFR 1910) Jan 1976
(d) OPNAVINST 6260.1A, Control of Asbestos Exposure to Naval
Personnel and Environs

1. Reference (a) requested the NRMHC Industrial Hygiene Branch to determine concentrations of airborne asbestos fibers generated during a typical shipboard installation of vinyl-asbestos floor tile. Consequently, the subject survey was conducted on 16 May 1979 by Mr. Harry Ginoza, NRMHC Industrial Hygienist.

2. The simulated operation was conducted on the second deck of Shop 64, Building 7. An area was swept clean and then covered with wrapping paper. Two men went through the procedure of laying the floor tile on the paper and cutting some of the tiles using a linoleum knife. The tile used is identified as FLINTKOTE Vinyl Asbestos Floor Tile, FSN 7220-634-5321, manufactured by Flintkote Company, Los Angeles, CA. Breathing zone samples for one hour and for 15-minute intervals were obtained on both men as they laid and cut the tiles. In addition, a general area sample was obtained at the edge of the work. To simulate the worst possible condition, a 15-minute breathing zone sample was also obtained while a worker was cutting and shaving a floor tile. Throughout the whole operation, both men wore surgical rubber gloves and 3M 8710 respirable dust respirators.

3. Analysis of each sample was performed according to the procedure outlined in reference (b). The results showed that no asbestos fiber was found in any of the samples analyzed. All results are well below the Threshold Limit Value (TLV) of 2 fibers per cubic centimeter of air stated in references (c) and (d). These results were not unexpected for the following reasons:

a. The installation and cutting operations do not create any asbestos dust

Baron & Budd
Butler County
August 1, 1997

1204

20 May 1979

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from Vinyl-Asbestos Tile Operations; report on

b. The few asbestos fibers which are present are tightly bound in
the vinyl tile.

Based on the results of the sample analysis, the operation of laying
and cutting the vinyl-asbestos tile should constitute no potential
health hazards to the workers.

4. If there are any questions pertaining to this report, please contact
Mr. Harry Ginoza at 474-4242.

J. E. Osborne
J. E. OSBORNE
By direction

Copy to:
Code 185
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