

LAWRENCE WILLIAM WHITEHEAD

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Certified Industrial Hygienist

ADDRESS

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CERTIFICATION

Certified Industrial Hygienist (Comprehensive Practice), Cert. No. 2306, American Board of Industrial Hygiene, 1982, recertified 1989, 1995, 2001, 2006.
Passed Subspecialty Examination in Indoor Environmental Quality (IEQ), American Board of Industrial Hygiene, 1993.

HONORS and NATIONAL PROFESSIONAL ASSOCIATION OFFICE

2001-2002 - completed the Academic Leadership Development Program, University of Texas Health Science Center at Houston (served as faculty moderator for this program in 2002-2003).

1999 - elected a permanent **Fellow** of the American Industrial Hygiene Association.

2000 – 2001 - **Chair**, Exposure Assessment Strategies Committee, AIHA (Vice-Chair in 1999)

2005 – present – **Chair**, Academic Special Interest Group, AIHA.

1987 - 1993 - served as a **Director**, American Board of Industrial Hygiene.

2006 – present, and 1983 -1986 - serve as a **Councilor** (Board member), Academy of Industrial Hygiene (formerly American Academy of Industrial Hygiene).

TEACHING and EXPERIENCE

2004-2005: Interim Division Director, Division of Environmental and Occupational Health Sciences, School of Public Health, University of Texas Health Science Center at Houston, Houston, Texas.

Interim Director of the EOHS Division during its first year of formal operation after administrative reorganization of the school into Divisions. In charge of all administrative

activities of the Division, including space, compliance, faculty review and development, policy, student affairs, budgets. Member SPH Executive Committee.

1986 to present: Associate Professor, with tenure, Environmental and Occupational Health Sciences (previously Environmental Sciences), School of Public Health, University of Texas-Houston, Houston, Texas.

Annual course responsibilities include the primary sequence in Industrial Hygiene, PH 2245 & 2250; co-instructor for PH 6698 - Occ. Health. Field Trips course, instructor for PH 2498 - Fund. Of Occup. Safety, co-instructor for PH2498 – Physical Agents – Noise and Radiation, and numerous individual study and thesis courses annually. Manage scholarship activities of students with the Semiconductor Environmental Safety and Health Association, and American Industrial Hygiene Foundation. Advise or on committees for approximately 15 - 20 masters and doctoral students each year. Dean’s Teaching Excellence List award, Outstanding Faculty Award, Dean’s Excellence Award, or Peer Recognition Award for Outstanding Scholarship, in a number of years.

1986-present: Administrative head of the Industrial Hygiene and Air Environment curriculum, in Division of Environmental and Occupational Health Sciences, and the Industrial Hygiene component of the NIOSH ERC.

Manage IH portion on NIOSH Education and Research Center. Wrote successful first application from this curriculum for accreditation by Accreditation Board for Engineering and Technology/American Academy of Industrial Hygiene (1995-1996); managed successful reaccreditation in 2001; and manage ongoing accreditation activities- development of goals and objectives; established, and coordinate with, Advisory Committee; developing mapping of goals and objectives into courses; developing assessment plan.

1991 – 1997: Center Director, Southwest Center for Occupational and Environmental Health, an Education and Research Center (ERC) supported by the National Institute for Occupational Safety and Health. .

1988-1992, and 2002-2004: Convener of the Occupational and Environmental Health/Aerospace Medicine Module. Member of the Environmental Sciences Discipline.

1979 to 1986: Assistant Professor of Environmental and Industrial Health, School of Public Health, University of Michigan, Ann Arbor, Michigan.

Member of the Industrial Hygiene faculty; course responsibilities: Instructor in EIH 650 - Fundamentals of Industrial Hygiene; Co-instructor for EIH 652 - Sampling and Analysis; Co-instructor for EIH 560 - Principles of Community Air Pollution; Instructor for EIH 659 - Industrial Hygiene Field Studies; Instructor for EIH 662 - Industrial Health Seminar; Instructor for EIH 515 - Housing Seminar (1979-1981); Instructor for EIH 516 - Environmental Health Aspects of Urbanization (1980); Instructor for various independent study courses; Advise masters and doctoral students.

1976 to 1979: Assistant Professor of Epidemiology and Environmental Health, College of Medicine, University of Vermont, Burlington, Vermont.

Course responsibilities: Co- instructor for the environmental health portion of the departmental course for medical students; 1976-77: Instructor for Environmental Studies 196 - Special Topics: Health and Environmental Impact of Land Use and Urbanization. 1977-79: Instructor for Environmental Studies 196H: Environmental Health.

1974 to 1976:

Faculty Associate in Urban Health, University of Texas Health Science Center at Houston, School of Public Health.

Member of the research faculty in Urban Health. Course responsibilities: 1975-1976: Instructor for P.H. 811-812 Urban Health I and II. 1974-75: Co-instructor of P.H. 819-820 Health Implications of Urban Design I, II, the principal course offered jointly in the M.P.H.-M.Arch. degree program at the University of Texas School of Public Health and School of Architecture at Rice University. Other activities included guest lectures at the Schools of Architecture at Rice University and the University of Houston.

Lecturer in Architecture, School of Architecture, Rice University, Houston, Course Responsibility: Instructor for Arch. 334/642 Social & Behav.Impacts of Urban Design.1974.

1972 to 1973: Teaching Associate, University of Texas at Houston, School of Public Health. Involved with courses in Urban Health, Environmental Health, and Urban Design. Lecture areas: Microclimate Change Due to Land Development; Meteorologic Factors in Air Quality; Air Quality Effects of Land Use Planning; Health Aspects of Housing .

OTHER ACADEMIC EXPERIENCE

1973 to 1974: Research Statistical Aide, University of Texas Health Science Center at Houston, School of Public Health. Research topics: Relationships Between Air Contaminants and Cardiovascular Mortality; Pilot Studies of Climate and Air Quality Changes in a Forested Area Undergoing Urbanization.

PROFESSIONAL AND CONSULTING EXPERIENCE

1977 to present: Consulting activities in industrial hygiene:
health hazard evaluations;
conduct training programs for industrial clients;
consultation with attorneys for plaintiffs or defendants in occupational and environmental health-related cases;
consulted for OSHA on proposed wood dust standard impacts and feasibility, 1986;
testified at 1988 PEL Project hearings, on wood dust;
consultant for review of industrial hygiene educational programs.
consultation with US Department of Labor, OSHA, on administrative law case.

Member, Semiconductor Industry Association Scientific Advisory Committee, on occupational cancer, 2000-2002.

Member, United Auto Workers – General Motors Occupational Health Advisory Board, 2003 - present.

1971 Summer: John Kirksey & Associates, Houston. Responsible for design and preparation of construction documents for small-scale residential and commercial projects.

1969 to 1970: Skidmore, Owings, and Merrill, Architects and Engineers, San Francisco, California. Member of the design teams for an educational research facility for Stanford University; and for transportation alternatives for Denver, Colorado, under DOT contract.

1968 (summer): midshipman Combat Information Center watch officer, destroyer escort USS Hammerbergs, DE-1016, United States Navy ROTC.

EDUCATION

1973 to 1976: Graduate study in Public Health (Environmental Sciences) University of Texas Health Science Center at Houston, School of Public Health. **Doctor of Philosophy (Ph.D.) degree in Community Health Sciences (Environmental Sciences)** awarded in June, **1976**, with major in Environmental Science and minors in Biostatistics and Behavioral Science. Dissertation Title: "Some Microclimate and Air Quality Implications of Urbanization in a Southern Coastal Forest."

1971 to 1973: Graduate study in architecture at Rice University, Houston, Texas. **Master of Architecture (M.Arch.) degree** awarded in May, **1973**. Thesis Title: "User Attitudes and Goals as a Basis for Evaluating Physical Environments." Received Darden Award for Outstanding Thesis in Architecture, 1973.

1971 to 1972: Graduate study in Public Health, University of Texas, Health Science Center at Houston, School of Public Health. **Master of Public Health (M.P.H.) degree in Community Health** awarded in December, **1972**. Area of specialization Urban Health; degree awarded by comprehensive examination. First student in the joint M.P.H.-M.Arch. program, School of Architecture at Rice University, and the School of Public Health.

1965 to 1971: Undergraduate at Rice University, Houston, Texas, in the School of Architecture. **Bachelor of Arts (B.A.) degree (cum laude), and Bachelor of Architecture (B.Arch.) degree** awarded May, **1971**. Elected Fellow, Wiess College, Rice University; Selected for Preceptorship in Architecture, 1969-70, at Skidmore, Owings, and Merrill, Architects, San Francisco, CA.

RESEARCH INTERESTS

Trends in industrial hygienist utilization.

Occupational health and epidemiology, especially exposure assessment, and estimation.

Criteria for industrial plant design planning based on health and safety criteria.

Impacts of urbanization on environmental factors.

Epidemiology of environment-related health problems.
Computer applications in industrial hygiene.
International occupational health.

RESEARCH ACTIVITIES (cumulative)

Occupational Lung Disease in the Wood Working Industry. Principal Investigator. (Component of the Vermont Lung Center, PHS grant (NHLBI) #17292-05/5) \$140,000 direct cost, 1977-79. Pulmonary function, respiratory symptom, and smoking/work history survey of 1,160 workers in furniture and plywood companies, with environmental characterization. Completed. Nov. 1986-consulting on draft OSHA wood dust standard; August 1988 - testified at OSHA PEL Project hearings, on wood dust health effects.

Occupational Hazards of Artists and Craftsmen. Non-funded literature search, consultation and information activity. Current.

Behavioral and Neurologic Effects of Solvents. Conducting industrial hygiene evaluation of solvent-exposed spray painters, glue sprayers, and printers, as part of an investigation of neurologic effects of solvents. Co-Investigator, exposure component. NIOSH contract. completed.

Health-Related Factors for Industrial Plant Planning; non-funded research.

Respiratory Effects of Components of Foamed Plastics. Industrial sponsor. Principal Investigator. Funded, 11/83- 10/84. Completed.

Microcomputer Applications in Industrial Hygiene. Spreadsheet Modeling; Expert Systems in industrial hygiene. Independent efforts, & activities jointly with Doan J. Hansen, Ph.D.(former doctoral advisee), and with Michael Decker, Ph.D.

CNS Tumors and Occupational Exposures. Co-Investigator. Epidemiology Research Unit, Univ. of Texas School of Public Health. Principal Investigators P.A. Buffler and R.F. Frankowski.

Occupational and Environmental Exposures in the Etiology of Adult Leukemia. Co-Investigator. Epidemiology Research Unit, Univ. of Texas School of Public Health. Principal Investigator P.A. Buffler.

Solvent exposure characterization and relationship to control and protection measures in automotive painting, and in semiconductor manufacturing. UAW-GM National joint Committee for Health and Safety, February 1987. Initial phase funded, June 1987, \$82,181, for nine months beginning 11/87. Completion phase funded, \$10,000, fall 1988, for six months. Principal Investigator, 25% time. Completed.

Principal Investigator of proposal submitted to the Semiconductor Industry Association, on the Semiconductor Reproductive Epidemiology Study, 1988, budget of \$3,637,000, not funded.

Workplace Cancer Prevention for Rural Energy Workers. Worksite-based cancer prevention intervention trial, in rural electric cooperatives, and natural gas pipeline companies; Co-Investigator for Occupational Health, 5% time. PI: Michael P. Ericksen; grant from National Cancer Institute, 5-year request \$3,553,856, 1/90-12/94.

Feasibility Study for an Epidemiology Project, Phillips 66 Company, Houston TX; Co-Principal Investigator, PI was P.A. Buffler. \$592,000, one year.

Occupational Injuries and Illnesses in Texas, component on workplace exposures, and professional and educational resources; Principal Investigator of subcontract; State of Texas contract with the University of Houston Law School, 1992-93.

A Critical Review of Cancer in Texas with Emphasis on Environmental and Occupational Cancer. Contract from the Texas Institute for Advancement of Chemical Technology, Inc. 1993. Co-investigator, with emphasis on exposure variables. Dr. Sharon Cooper, P.I.

Estimation of the Utilization and Need for Industrial Hygiene Professionals. ongoing, not externally funded, 1996 – present.

Interventions for Asthma in School Children. Unfunded consultation on funded contract of the Center for Health Promotion, Univ. of Texas-Houston. 1996-2001.

Current awards:

Occupational Asthma Questionnaire Development for Health Care Workers. Funded by NIOSH, 2001-present. \$350,000 total direct costs. Co-investigator (5% support). PI is Dr. G. Delclos.

Southwest Center for Occupational and Environmental Health, an Education and Research Center (ERC) supported by the National Institute for Occupational Safety and Health. Funded by NIOSH, 1978-present. 1991 – 1997: Center Director and Principal Investigator, approximately \$3,000,000 direct costs during this period (approx. \$500,000/year). 1986-present: Director, industrial hygiene program component of the ERC, approx. \$2,000,000 since 1986 (average estimated at \$120,000/yr for 17 years). Current award (2005-2006) for industrial hygiene program: ~\$180,000.

PEER-REVIEWED PUBLICATIONS

1. Davis, E.M., L.W. Whitehead, and J.P. Moore (1974). Disinfection. J. Water Pollution Control Assoc. 46(6):1181-1191.
2. Severs, R.K., L.W. Whitehead, and R. Lane (1978). Air Quality Correlates of Chronic Disease Mortality; Harris County, Texas, 1969-71. Texas Reports on Biology and Medicine. 36:160-184.
3. Whitehead, L.W., T. Ashikaga, P. Vacek (1981). Pulmonary Function Status of Workers Exposed to Hardwood or Pine Dust. Am. Ind. Hyg. Assoc. J. 42(3):178-186.
4. Whitehead, L.W., T. Freund, L.L. Hahn (1981). Suspended Dust Concentrations and Size Distributions, and Qualitative Analysis of Inorganic Particles, from Woodworking Operations. Am. Ind. Hyg. Assoc. J. 42(6):461-467.
5. Whitehead, L.W. (1982). Health Effects of Wood Dust-Relevance for an Occupational Standard. Am. Ind. Hyg. Assoc. J. 43(9): 674-678.
6. Whitehead, L.W., G.L. Ball, L.J. Fine, and G.L. Langolf (1984). Solvent Vapor Exposures in Spray Painting and Spray Gluing. Am. Ind. Hyg. Assoc. J. 45(11): 767-772.
7. Maizlish, N.A., G.D. Langolf, L.W. Whitehead, L.J. Fine, J.A. Albers, J. Goldberg, P.J. Smith (1985). A Behavioural Evaluation of Workers Exposed to Mixtures of Organic Solvents. British J. Industrial Medicine. 42(9): 579-590.
8. Hansen, D.J., L.W. Whitehead, J.A. Foulke (1985). Computerized Spirometry Using a Portable Microcomputer. Am. Ind. Hyg. Assoc. J. 46(7): 373-378.
9. DeMeyer, C.L., L.W. Whitehead, A.P. Jacobson, D.G. Brown (1986). Potential Exposure to Metal Fumes, Particulates and Organic Vapors During Radiotherapy Shielding Block Fabrication. Medical Physics. 13(5): 748-750.
10. Maizlish, N.A., L.J. Fine, J.A. Albers, L.W. Whitehead, G.D. Langolf (1987). A Neurologic Evaluation of Workers Exposed to Mixtures of Organic Solvents. Brit. J. Ind. Med. 44(1): 14-25.
11. Whitehead, L.W., T.G. Robins, L.J. Fine, D.J. Hansen (1987). Respiratory Symptoms Associated with use of Azodicarbonamide Foaming Agent in a Plastics Injection Molding Facility. Am. J. Ind. Med. 11(1): 83-92.
12. Whitehead, L.W. (1987). Use of a Microcomputer Spreadsheet Program to Model Carbon Monoxide and Carboxyhemoglobin Levels due to Indoor Construction. Appl. Ind. Hyg. 2(1):24-31.
13. Whitehead, L.W. (1987). Planning Considerations for Industrial Plants Emphasizing Occupational and Environmental Health and Safety Issues. Applied Ind. Hyg. 2(2): 79-86.

14. Hansen, D.J., L.W. Whitehead (1988). The Influence of Task and Location on Solvent Exposures in a Printing Plant. Am. Ind. Hyg. Assoc. J. 45(5): 259-265.
15. Beck, S.W., T.H.Stock, and L.W.Whitehead (1990). Improved Efficiency of Desorption of Oxygenated Solvents from Activated Charcoal Using a New Polar Additive to Carbon Disulfide. Applied Industrial Hygiene. 5(3): 171-177.
16. Cooper,S.P., T.D. Downs, K.Burau, P.A.Buffler, S.Tucker, L.W.Whitehead, S.Wood, G.Delclos, B.Huang, T.Davidson, M.Key (1994). A Survey of Keratoses Among Paraquat Production Workers and a Nonexposed Friend Reference Group. American Journal of Industrial Medicine. 25: 335 - 347.
17. Cooper, S.P., D.Labarthe, T.Downs, K.Burau, L.Whitehead, S.Vernon, M.Spitz, B.New, A.Sigurdson (1997). Cancer Mortality Among Petroleum Refinery and Chemical Manufacturing Workers in Texas. J.Environ. Pathol., Toxicol. and Oncol. 16(1): 1-14.
18. Cooper, S.P., A.Sigurdson, D.Labarthe, L.W.Whitehead, T.Downs, K.Burau, S.W.Vernon, M.Spitz, and B.New (1998). Assessing the Burden of Cancer in Texas Using Vital Statistics Data. Southern Medical J. 91(2): 173-181.
19. Burau, K., B. Huang, L.W.Whitehead, G.Delclos, T.Downs (1998). A System Linking Occupation History Questionnaire Data and Magnetic Field Monitoring Data. Journal of Exposure Analysis and Environmental Epidemiology. 8(2): 231-252.
20. Costello, R.G., R.J.Emery, L.W.Whitehead (1999). A Field Method for Validating Estimated ³²P Activities in Solid Radioactive Waste. Radiation Protection Dosimetry. 81(1): 65-70.
21. Dautel, P., M.M.Sockrider, L.W.Whitehead, S.Tortolero, S.Abramson (1999). Asthma Triggers in the Elementary School-A Pilot Study. J.Asthma. 36(8): 691-702.
22. Ryan, T.J., L.W.Whitehead, T.H.Connor, K.D.Burau (2001). Survey of the asp f 1 Allergen in Office Environments. Applied Occ. And Env. Hygiene. 16(6): 679-684
23. Tortolero, S., L.K.Bartholomew, S.Tyrell, S.Abramson, M.Sockrider, C.Markham, L.W. Whitehead, G.S.Parcel (2002). Environmental Allergens and Irritants in Schools: A Focus on Asthma. J.School Health. 72(1): 33-38.
24. Arif, A.A., L.W. Whitehead, G.L. Delclos, S.R. Tortolero, E.S. Lee (2002). Prevalence and risk factors of work-related asthma by industry among U.S. Workers: Data from the Third National Health and Nutrition Examination Survey (1988-1994). Occupational and Environmental Medicine. 59: 505-511.
25. Schabath, M.B., M.R.Spitz, W.K.Hong, G.L.Delclos, W.F.Reynolds, G.B.Gunn, L.W. Whitehead, X.Wu (2002). A Myeloperoxidase Polymorphism Associated with Reduced Risk of Lung Cancer. Lung Cancer. 35(1): 35-40.

26. Schabath, M.B., M.R.Spitz, G.L.Delclos, G.B.Gunn, L.W.Whitehead, X.Wu (2002). An Association Between Asbestos Exposure, Cigarette Smoking, Myeloperoxidase (MPO) Genotypes, and Lung Cancer Risk. Am.J Indust. Med. 42(1): 29 -37.
27. Enochs, B. J., T.H. Connor, R.Emery, and L.W. Whitehead (2002). An Evaluation of Potential Liquid/Aerosol Releases From a New Retractable Syringe. Appl.Biosafety. 7(2): 74-81.
28. Arif, A.A., G.L.Delclos, E.S.Lee, S.R.Tortolero, L.W. Whitehead (2003). Prevalence and Risk Factors of Asthma and Wheezing Among U.S. Adults: an Analysis of the NHANES III Data. Eur Resp J 21: 827-833.
29. Arif, A.A., G.L. Delclos, L.W. Whitehead, S. R. Tortolero, E.S. Lee (2003). Occupational exposures associated with work-related asthma and work-related wheezing among U.S. workers. Am.J Indust. Med. 44:368–376.
30. Delclos, G.L., K.A. Bright, A.I. Carson, S.A. Felknor, T.A. Mackey, M.T. Morandi, L.J.H. Schulze, L.W. Whitehead (2005). A Global Survey of Occupational Health Competencies and Curriculum. International J. Occup. And Env. Health. 11(2, April-June): 181-194.
31. Barcenas, C.H., G.L.Delclos, R.El-Zein, G.Tortolero-Luna, L.W.Whitehead, M.R.Spitz (2005). Wood Dust Exposure and the Association with Lung Cancer Risk. Am.J Indust. Med. 47(4): 349-357.
32. Patlovich, S., R.J. Emery, L.W.Whitehead (2005). Characterization and Geolocation of Sources of Radioactivity Lost Downhole in the Course of Oil and Gas Exploration and Production Activities in Texas, 1956 to 2001. Health Phys. 89 (Supplement 5): S69-S77.
33. Delclos, G.L., A.A.Arif, L.Aday, A.I.Carson, D.Lai, C.Lusk, T.Stock, E.Symanski, L.W.Whitehead, F.G.Banavides, J.M.Anto (2006). Validation of an Asthma Questionnaire for Use in Healthcare Workers. Occupational and Environ. Med. 63: 173-179.
34. Tovalin-Ahumada, H., M. Valverde, M. Morandi, S. Blanco, L. Whitehead, E. Rojas, (2006). DNA Damage in outdoor workers occupationally exposed to environmental air pollutants. Occupational and Environ. Med. 63(4): 230-236.
35. Delclos, G.L., D.Gimeno, A.A.Arif; K.D.Burau, A.Carson, C.Lusk, T.Stock, F.G. Benavides, J.M.Antó (2007). Occupational Risk Factors and Asthma Among Healthcare Professionals. Am. J. Respiratory and Critical Care Med. Accepted for publication.
- (36). Tovalin-Ahumada, H., and L. Whitehead (200). Personal Exposure to Volatile Organic Compounds Among Outdoor and Indoor Workers in Two Mexican Cities. Sci. Total Env. revised version submitted for publication.
- (37). Tovalin-Ahumada, H., M.T.Morandi, L.W.Whitehead (200). PM2.5 Personal Exposure of Outdoor and Indoor Workers from Two Mexican Cities. In preparation.

BOOK CHAPTER

Whitehead, L.W. (1994) "Health Hazards in Arts and Crafts," ch.5, pp.65-95, in The Work Environment, Volume Three, Indoor Health Hazards, ed. D.J.Hansen. Boca Raton: Lewis Pub.

TECHNICAL PRESENTATIONS (including published abstracts)

1. Whitehead, L.W., and R.K. Severs (1977). "Background Hydrocarbon Levels in East Texas." Proceedings of the Annual AICHE Meeting, Houston, TX, March, 1977. (pres. March 22, 1977).
2. Whitehead, L.W., N.V. Vallyathan, T. Freund, (1980). "Total Suspended Wood Dust Concentrations and Size Distributions, and Exploratory Qualitative Analysis of Non-Wood Particles, In Ambient Stationary Samples from Selected Woodworking Operations." Abstracts. Amer. Indust. Hygiene Conference, Houston, TX, May 18-23, 1980. (pres. May 22, paper #248).
3. Whitehead, L.W., T. Ashikaga, P. Vacek (1980) "Pulmonary Function Status of Pine and Maple Workers." Abstracts. Amer. Industrial Hygiene Conference, Houston, Texas, May 18-23, 1980. (presented May 20, paper #17).
4. Beckman, A., T. Ashikaga, L.W.Whitehead (1980). "Respiratory Dysfunction and Occupational Wood Dust Exposure." Abstract. Summaries of Papers, Joint Statistical Meetings (Amer. Statistical Association, Biometric Society). Houston, Texas, August 11-14, 1980. (presented August 13, 1980).
5. Ashikaga, T., P.M. Vacek, L.W.Whitehead (1980). "Application of Survival Analysis to the Problem of Wood Dust Exposure and Decreased Pulmonary Function." Abstract. Summaries of Papers, Joint Statistical Meetings, (American Statistical Association, Biometric Society). Houston, Texas, August 11-14, 1980. (presented August 13, 1980).
6. Whitehead, L.W., T. Ashikaga, P. Vacek (1980). "Analysis of Distributions of Pulmonary Functions of Pine and Hardwood Workers, Using the Log-Rank Test." Abstracts. Amer. Public Health Association, annual meeting, Detroit, Michigan, October 1-23, 1980. (presented October 23, 1980).
7. Whitehead, L.W. (1981). "Health Effects of Wood Dust-Relevance for an Occupational Standard." Abstracts. Amer. Indust. Hygiene Conference, Portland, Oregon, May 25-29, 1981. (presented May 29, paper #384).
8. Whitehead, L.W., G.L. Ball, L.J. Fine, G.D. Langolf (1982). "Solvent Vapor Exposures in Spray Painting and Spray Glueing." Abstracts. Amer. Indust. Hygiene Conference, Cincinnati, Ohio, June 5-11, 1982. (presented June 9, paper #137).
9. Whitehead, L.W. (1982). "Occupational Health Issues in Workplace Planning." Abstracts. Amer. Indust. Hygiene Conference, Cincinnati, Ohio, June 6-11, 1982.(presented June 10, #229).

10. Langolf, G.D., L.J. Fine, L.W. Whitehead, and N. Maizlish (1983). "Measurement of Central Nervous System Function of Workers Exposed to Solvent Mixtures." Abstracts. Amer. Indust. Hygiene Conference, Philadelphia, Pennsylvania, May 22-27, 1983. (presented May 27, #474).
11. Hansen, D.J., J. Foulke, L.W. Whitehead (1984). "Computerized Spirometry Using a Portable Microcomputer." Abstracts. Amer. Industrial Hygiene Conference, Detroit, Michigan, May 20-25, 1984. (presented May 23, paper #120).
12. Whitehead, L.W., T.G. Robins, L.J. Fine, and D.J. Hansen (1985). "Pulmonary Function and Symptoms Associated with Injection Molded Plastic Incorporating Azodicarbonamide Foaming Agent." Abstracts. Amer. Indust. Hygiene Conference, Las Vegas, NV, May 20-24, 1985. (presented May 21, paper #150).
13. Hansen, D.J. and L.W. Whitehead (1985). "Exposure Group Determination by Simple Survey Methods." Abstracts. Amer. Indust. Hygiene Conference, Las Vegas, NV, May 20-24, 1985. (presented May 21, paper #85).
14. Whitehead, L.W. (1986). "Dynamic Decay Model for Indoor Air Pollution." Amer. Conference of Governmental Industrial Hygienists. Symposium: Microcomputer Applications in Occupational Safety and Health. March 25 - 27, 1986. Dallas, Texas. (presented March 26).
15. Whitehead, L.W. (1986). "Dynamic Decay Model for Indoor Air Pollution." in Microcomputer Applications in Occupational Health and Safety. ed. by Amer. Conf. of Govt. Industrial Hygienists. Chelsea, MI: Lewis Publishers.
16. Whitehead, L.W. (1986). "Use of a Microcomputer Spreadsheet Program to Model Carbon Monoxide Levels and Effects Due to Indoor Construction With Partial General Ventilation." Abstracts. Amer. Indust. Hygiene Conference, Dallas, TX, May 18-23, 1986. (presented May 20, paper # 129).
17. Hansen, D.J., and L.W. Whitehead (1986). "Exposure Group Determination." Abstracts. Amer. Indust. Hygiene Conference, Dallas, TX, May 18-23, 1986. (pres. May 22, paper # 301).
18. Whitehead, L.W., and M. Decker (1987). "Rule-Based Expert Systems: Potential Applications in Industrial Hygiene." Abstracts. Amer. Indust. Hygiene Conference, Montreal, Quebec, May 31-June 5, 1987. (presented June 4, paper # 281).
19. Hansen, D.J., L.W. Whitehead (1987). "Exposure Grouping as a Function of Job Title, Area and Individual Variability." Abstracts. Amer. Indust. Hygiene Conference, Montreal, Quebec, May 31-June 5, 1987. (presented June 4, paper # 376).
20. Whitehead, L.W., J.F. Beckner, S.P. Cooper, and P.A. Buffler (1987). "Retrospective Qualitative Metals Exposure Estimation for an Epidemiological Study." Abstracts. Amer. Indust. Hyg. Conf., Montreal, Quebec, May 31-June 5, 1987. (pres. June 4, paper # 385).

21. Whitehead, L.W., K.D.Burau, and P.A.Buffler (1990). "Use of the Standard Industrial Classification and the Dictionary of Occupational Titles in the Preparation of Retrospective Exposure Estimates." Abstracts. Amer. Indust. Hygiene Conference, Orlando, FL, May 13-18, 1990. (presented May 17, paper # 321).
22. Lewis, R.J., P.A.Buffler, K.D.Burau, T.D.Downs, and L.W.Whitehead (1991) "Central Nervous System (CNS) Tumors and Occupational Exposure to Electric and Magnetic Fields (EMFs)." Pres. at Soc.Epid.Research, Buffalo, NY, June 1991.
23. Rosas, A., M. Morandi, L.W.Whitehead. (1992) "Development of a Univariate Linear Model for Retrospective Exposure Assessment in a Plastics Manufacturing Facility." Abstract. Fourth Annual Meeting of the International Society for Environmental Epidemiology (ISEE), and the International Society of Exposure Analysis (ISEA). August 26-29, 1992, Cuernavaca, Mexico.
24. Cooper,S., T.Downs, K.Burau, S.Tucker, L.W.Whitehead, G.Delclos, M.Key, B.Huang, T.Davidson, P.Buffler.(1992) "A Survey of Keratoses Among Paraquat Production Workers and Their Friends." Ninth International Symposium on Epidemiology in Occupational Health, Cincinnati OH, September 23-25, 1992.
25. Whitehead, L.W. (1994). "Health Effects of Polychlorinated Biphenyls", PCB Forum, Petrosafe Conference, Houston TX, 1/94.
26. Murray, K., M.Morandi, L.W.Whitehead,T.Stock. (1996) "Effects of High Temperatures, Humidities, and Interference from Toluene and Xylenes on Benzene Detector Tube Accuracy." Abstracts. Amer. Indust. Hygiene Conference and Exposition, Washington, DC, May 18-24, 1996. (presented May 22, paper # 174).
27. Shindel, S., L.W.Whitehead. (1996) "Characterization of Noise and Noise Exposure in Three Laboratory Animal-Care Facilities." Abstracts. Amer. Indust. Hygiene Conf. and Exposition, Washington, DC, May 18-24, 1996. (poster pres., May 20, paper # 370).
28. Dautel, P., L.W.Whitehead, M.M.Sockrider (1997) "An Elementary School Environmental Survey for Asthma Irritant Triggers and Air Quality." American Thoracic Society Annual Conference, April 1997.
29. Whitehead, L.W., and M.S.West (1997) "CIH + IHIT Utilization by Industry or Industry Group, and Preliminary Projections of Future Need for Such IH Professionals." Abstracts. Amer. Indust. Hygiene Conf.& Exposition, Dallas, TX, May 17-23, 1997. (pres. May 19, paper # 4).
30. Whitehead, L.W. (1997) "Edificios Contaminados, Indoor Air Quality, Contaminaciones Interiores Y Exteriores, Materiales Involucrados. Control de Edificios Enfermos, Procedimientos de Descontaminacion." Invited paper, presented in English. Full paper published in Spanish in: Proceedings, I Congreso Nacional Del Síndrome Del Edificio Enfermo, pages 71-81. Madrid, Spain, September 18-19, 1997. Desinfecciones Alcora, S.A.

31. Yeager, G., M.Morandi, and L.W.Whitehead (1998) "The Performance of Benzene Charcoal Sampling Tubes in the Presence of Toluene and Xylenes under Varying Humidity." Abstracts, Amer. Indust. Hygiene Conference and Exposition, Atlanta, GA, May 9-15, 1998. (poster presented May 12).
32. Bright, K., A.Carson, G.Delclos, S.Felknor, T.Mackey, M.Morandi, L.Schulze, and L.W.Whitehead (1998) "International Perspectives on Competencies and Curriculum in Occupational Health Nursing." International Occupational Health and Environmental Health Nursing Conference. Eastbourne, United Kingdom, November 9-13,1998. (pres. November 13).
33. Bartholomew, L.K., S. Tortolero, S.Abramson, M.Sockrider, L.W.Whitehead, S.Tyrell (1998) "Environmental Characteristics of Urban Elementary Schools: Focus on Asthma." Amer.Public Health Assoc., 126th Annual Meeting, Nov.15-19, 1998, Washington, DC.
34. Ryan, T.J., L.W.Whitehead, T.H.Connor, K.D.Burau (1999) "Indoor Bioaerosol Blooms Associated with Exterior Climatological Moisture Events." Indoor Air 99 Conference, Edinburgh, Scotland, August 1999. Paper no. 1020, including publication of short manuscript.
35. Whitehead, L.W. (2000) "An AIHA Exposure Assessment Strategies Committee Perspective: Mission for the Millenium: Developing New Industrial Hygiene Tools and Methods." Amer. Indust. Hygiene Conference and Exposition, Orlando, FL, May 20-25, 2000. (presented May 23, Roundtable 221).
36. Whitehead, L.W. (2000) "Emerging Issues in Industrial/Occupational Hygiene: Exposure Assessment Strategies." Amer. Indust. Hygiene Conference and Exposition, Orlando, FL, May 20-25, 2000. (presented May 24, Roundtable 236).
37. Schabath,M.B., M.R. Spitz, G.L. Delclos,L.W. Whitehead, and X. Wu. (2001) "An Association Between Asbestos Exposure, Tobacco Smoke, Myeloperoxidase (MPO) Genotypes, and Lung Cancer Risk." AACR.
38. Rodriguez, V., and LW.Whitehead. (2006) "Trends and Projections for Numbers of Industrial hygienists, by Industry, Industrial Division, and Overall." Amer. Indust. Hygiene Conference and Exposition, Chicago, IL, May 13-18, 2006. (poster session, paper no. 263).

PUBLICATIONS (other than peer-reviewed journals and book chapters)

1. Whitehead, L.W. (1969). "Advocacy Planning" in Urban Futures U.S.A.. Proc. of a National Student Conference at Rice University. March, 1969, ed. by C.L.Horstman. Houston, Rice U..
2. Whitehead, L.W., Severs, R.K., Davis, E.M., Ooi, W., and Heideman, M.L. (1973). "Woodlands Pilot Environmental Health Project Report". The University of Texas, SPH.
3. Whitehead, L.W., Heideman, M.L., Severs, R.K., and Gesell, T.G. (1973). "Recommendations for a Continuing Environmental Health Monitoring Program for the

Woodlands, Texas". The University of Texas, School of Public Health, Institute of Environ. Health, Houston. Prepared for Mitchell Energy and Development Corporation, Houston, Texas.

4. Whitehead, L.W. (1973). "The Microclimate Effects of Land Development." University of Texas, School of Public Health, Houston.

5. Whitehead, L.W. (1976). Some Microclimate and Air Quality Implications of Urbanization in a Southern Coastal Forest. Ph.D. dissertation, The University of Texas; University Microfilms International, Ann Arbor. #77-9283, 165 pages.

6. Whitehead, L.W., (Contributors: T. Ashikaga, P. Vacek, N. Vallyathan, T. Freund) (1979) Final Technical Report: Woodworkers Respiratory Health Study. Burlington, VT.: The Vermont Lung Center, College of Medicine, University of Vermont. 160 pp.

7. Whitehead, L.W., J.A. Waller (1st authorship varies) Health Issues series in American Craft Magazine, (formerly Craft Horizons):

Craft Health Issues, 37(3), June, 1977, 56.

Historical Perspective, 37(5), October, 1977, 8.

Woodworking, 37(6), December, 1977, 8.

Ceramics I, 38(2), April, 1978, 9.

Ceramics II, 38(3), June, 1978, 8.

Jewelry Making, 38(8), October, 1978, 9.

Ceramics Follow-Up, 38(8), December, 1978, 14.

Fiber Arts I, 39(1), February, 1979, 11.

Fiber Arts II, 39(3), April, 1979, 11.

Printmaking I, 39(6), December, 1979, 66.

Printmaking II, 40(1), February, 1980, 81.

Metalsmithing, 40(2), April, 1980, 76.

Welding, 40(3), June, 1980, 85.

Papermaking, 40(4), August, 1980, 77.

Ventilation I, 40(5), October, 1980, 83.

Ventilation II, 40(6), December, 1980, 76.(last in the series).

8. Waller, J.A., and L.W. Whitehead, eds. (1979) Health Hazards in the Arts; Proceedings of the 1977 Vermont Workshops. Burlington, Vt., Department of Epidemiology and Environmental Health, University of Vermont, 85 pg. (author Ch. 3, "Trace Metals, Gases, Dusts, & Solvents").

9. Langolf, G.D., L.J. Fine, N. Maizlish, L.W. Whitehead, J.A. Albers, P.J. Smith, J. Goldberg (1983). Final Report on the Behavioral Evaluation of Workers Exposed to Solvents Used in Spray Painting - Contract #210-80-0003. Ann Arbor, MI: The School of Public Health, The University of Michigan. 211 pp.

10. Whitehead, L.W., T.G. Robins, L.J. Fine, and D.J. Hansen (1984). Final Technical Report: Investigation of Association of Pulmonary Function and Symptoms with Injection Molding of Plastics, including Azodicarbonamide Blowing Agent. Ann Arbor, MI: The School of Public Health, The University of Michigan. 74 pp.

11. Whitehead, L.W., T.H.Stock, and S.W.Beck (1989). Final Report: Solvent Exposures in Vehicle Painting and Semiconductor Manufacturing. Contract with the General Motors-United Auto Workers National Joint Committee on Health and Safety. Houston, Texas: The School of Public Health, The University of Texas. 95 pages.

12. Rothstein, M.A., and S.Cooper, Principal Investigators (1993) Occupational Injury and Illness in Texas-Report to the Texas Legislature. Health Law and Policy Institute, University of Houston Law Center. 274 pp. I was principal investigator with 6 co-investigators on a subcontract to University of TX, which produced chapter 4 - Potential Hazardous Occupational Exposures in Texas, and chapter 6 - Occupational Health & Safety Resources in Texas.

13. Rosas, A.L., L.Whitehead, and M.Morandi (1993) "NAFTA's Environmental Issues and Opportunities," Business Mexico. 3(9): 42-45, September 1993.

14. Cooper, S.P., L.Whitehead, D.Labarthe, T.Downs, et al. (1994) Critical Review of Cancer in Texas, with Emphasis on Environmental and Occupational Cancer. A contract report for the Texas Institute for Advancement of Chemical Technology, Inc. Texas A&M University, College Station Texas, 112 pages + appendices.

OTHER PRESENTATIONS

"Preventive Measures in Health Protection for Craftsmen," New England Art Teachers Association, November 10, 1977. Newport, R.I.

"Occupational Risks for the Pregnant Woman." Med. Center Hospital of Vt., May 9, 1978.

"Health Issues in Ceramics," National Council for Education in the Ceramic Arts, February 28 - March 2, 1979. Pennsylvania State University, University Park, PA.

"Health Hazards in the Arts Workshops," March, 1977. Montpelier and Bennington, VT.

"Occupational Epidemiology," (1981), a course for Standard Oil Co. & OCAW, Ann Arbor, MI.

"Occupational Health, Noise, Housing," (1982), in a course for Detroit City Health Dept.

"Introduction to Occupational Health," (1982-83), Course for Foxboro, Co.; repeated several times (Philadelphia, Chicago, Foxboro, Ma, Florida).

"Health Hazards in the Arts." Interview on PBS television, Delta College, MI. 1983.

Industrial hygiene topics, training course for Standard Oil Co. of Ohio & OCAW. 1983 & 1985.

Training Course, Health and Safety Representatives, Pennzoil Corp. and OCAW, The Woodlands, TX., 1986.

"Introduction to Industrial Hygiene," and "Basics of Air Sampling," AOMA Basic Curriculum, April, 1988 (New Orleans); October, 1988 (San Antonio); April 1989 (Boston); Oct. 1989 (Baltimore); April 1990 (Houston).

"Industrial Hygiene and Indoor Air Quality", course for Continental Airlines, Aug. 1993.

Multiple Continuing Education topics each year, Southwest Center for Occupational and Environmental Health, including "Indoor Air Quality", "Industrial Hygiene for Non-Industrial Hygienists", "Hearing Conservation", and "Industrial Hygiene Review."

"Border Environmental Health Education Program", instructor, offered in El Paso, Harlingen, Laredo, and Houston in 1995. 2.5 day course.

"Industrial Hygiene Ethics in the Academic Setting", Greater Hou. Ind. Hyg. Council, 4/95.

"Exposure Assessment Strategies and Statistics", lecturer in Professional Development Course, American Industrial Hygiene Conference and Exposition, annually 1994-1999.

"Exposure Assessment", American Industrial Hygiene Assoc., Gulf Coast Chapter, 11/95.

"Health Care Worker Health and Safety," lecture in Health Law course, University of Houston-Clear Lake, program in Health Care Administration, 1995, 1996, 1997.

"Introduction to Occupational Health for Managers", Virginia Indonesia Company, Jakarta and Balikpapan, Indonesia, January 1996.

"Control Measures for Sick Building Syndrome, Indoor Air Quality, Inside Contamination, Outside Contamination, and Building Materials." First National Congress on Sick Building Syndrome, Madrid, Spain, sponsored by Disinfecciones Alcora, September 19, 1997.

"Awareness Level Emergency Response", for first responders; course co-instructor, Harlingen, Texas, September 18, 1998, sponsored by the South Texas Border Initiative of the University of Texas Health Science Center at San Antonio, and The University of Texas-Houston, School of Public Health, San Antonio MPH Program.

Ongoing variety of Continuing Education lectures in courses for the Southwest Center for Occupational and Environmental Health

PROFESSIONAL SOCIETY AND BOARD MEMBERSHIPS

American Board of Industrial Hygiene (one of eighteen Directors), 1987 - 1993.

American Industrial Hygiene Association, 1975 - present. Elected a Fellow of AIHA, 1999.

American Academy of Industrial Hygiene, 1982 - present. (elected a Councilor of AAIH for 1983-1986, and 2006 - present; the AAIH Council is equivalent to a Board of Directors).

American Conference of Governmental Industrial Hygienists, approx. 1982-present.

Semiconductor Environment, Safety and Health Association, 1988 - present.

Gulf Coast Section, A.I.H.A., 1986 - present.

NATIONAL COMMITTEE AND REVIEW APPOINTMENTS.

2002-present – member, **Occupational Health Advisory Board** to the **National Joint Committee for Health and Safety, United Auto Workers & General Motors**, & Delphi Corp.

1987 - present: Academic Accreditation Committee, American Industrial Hygiene Association/ABET; site reviewer:

Observer, 1989 accreditation visit; Support Programs Reviewer, 1991 accreditation visit.
Program Evaluator, accreditation review visits in 1992, 1993, 1994, 1995, 1996, 1997, 2000, 2001, 2003, 2004, 2006.

1988 - present: Training Grant Reviewer, NIOSH:

Reverse site visit, reviews of Hazardous Waste Training Grants, July 1988, Cincinnati.
University of New Haven, industrial hygiene Training Project Grant application site visit, March, 1989.
University of Pittsburgh, industrial hygiene Training Project Grant renewal site visit, October, 1989.
Temple University, industrial hygiene Training Project Grant renewal site visit, Feb.1990.
University of Minnesota Educational Resource Center renewal site visit, industrial hygiene program, September 1991.
New York - New Jersey Educational Resource Center renewal site visit, industrial hygiene programs at New York University and Hunter College, Dec.1991.
University of South Carolina industrial hygiene program grant renewal site visit, December, 1993, team chair.
University of Alabama-Birmingham Educational Resource Center renewal site visit, industrial hygiene program, November, 1997.
University of Minnesota, Education and Research Center renewal site visit, industrial hygiene program, November, 2001.
University of Iowa, Education and Research Center renewal site visit, industrial hygiene program, October, 2002
University of Oklahoma, industrial hygiene Training Project Grant renewal site visit, November, 2003.

2005 – present, Chair, Academic Special Interest Group, American Industrial Hygiene Association.

2006. member, NIOSH NORA Internal Applications peer review panel, Fisheries and Mining.

2006. Invited consultant reviewer, Doctor of Public Health degree proposal, Eastern Tennessee State University.

2005. Invited consultant reviewer, University of Minnesota at Duluth, Masters degree program in Environmental Health & Safety.

1992 - present: Academic Committee, Semiconductor Environment, Safety and Health Assoc.

2000-2002 - member, Scientific Advisory Committee, Semiconductor Industry Association.

1993 - 2002: Exposure Assessment Strategies Committee, American Industrial Hygiene Association. Served as Vice-Chair, 1999; Chair, 2000, Past Chair, 2001.

1993: Research Proposal Reviewer, National Institute for Occupational Safety and Health, Ad Hoc Study Section, Construction Health and Safety, August 1993.

1994-1996: Session Arranger and Session Chair, Exposure Assessment Platform Session, for American Industrial Hygiene Conference and Exposition.

Peer Reviewer, occasional – Journal of Occupational and Environmental Hygiene (formerly Applied Industrial Hygiene), and American Industrial Hygiene Association Journal.

1987: Invited Reviewer - Ford Motor Company – UAW Occupational Health Research Program.

1986 - 1990: Computer Committee, ACGIH

1981 - 1986: Epidemiology Committee, AIHA.

1982 - 1983: Epidemiology session arranger, and Session Chair, Amer. Indust.Hyg. Conf.

COMMITTEES - STATE LEVEL.

1982 - 1985: American Lung Association, Michigan Chapter - Occupational and Environmental Health Committee.

COMMITTEES - UNIVERSITY LEVEL

1996 - present: Continuing Education Advisory Committee, The University of Texas-Houston Health Science Center.

Completed committee assignments, The University of Texas Health Science Center at Houston:

1993: member, Campus Master Plan Vision Group, The University of Texas-Houston; 1986 - 2002: Biosafety Committee, The Univ.of Texas M.D. Anderson Cancer Center, Houston; 1989 - 1993: Biohazards Committee, The University of Texas – Houston; 1988 - 1992: Interinstitutional Faculty Advisory Group, The Health Environments Institute, The University of Houston College

of Architecture; 1977 - 1979: Recombinant DNA Committee, Biohazards Committee, University of Vermont.

COMMITTEES - DEPARTMENT OR SCHOOL LEVEL

2006 – present: delegate for Env. & Occup. Health Sciences Division, Faculty Council, UT School of Public Health.

1987 - present: Safety Coordinator, School of Public Health, University of Texas.

Completed committee assignments, The University of Texas School of Public Health:

2004-2005: member, Executive Committee; 2003-2004: member, Faculty Council; 2001-2003: Chair, faculty recruitment search committee, four positions in Environmental Sciences, Regional Programs of the School of Public Health; 1999-2000: Member, Facilities Master Plan User Group on Exterior Space and Sustainable Development Issues; 1996 - 1997: Chair, Faculty Recruitment Committee, Occupational Health Nursing; 1993 - 1995: Member, Faculty Recruitment Committee, Occupational Medicine; 1992 - 1996: Member, Faculty Recruitment Committee, Environmental Sciences; 1991 - 1992: Academic Affairs Committee; 1988 - 1992: Dean's Advisory Council; 1986 - 1991: Faculty Committee on Programs of Instruction, Chair, 1988 – 1989; 1988 - 1989: Accreditation Advisory Committee; 1988 - 1989: Faculty Policy Committee; 1987 - 1989: Financial Aid Committee.