

LAWRENCE WILLIAM WHITEHEAD

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ADDRESS

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CERTIFICATION AND REGISTRATION

Certified Industrial Hygienist (CIH) (Comprehensive Practice), Cert. No. 2306, American Board of Industrial Hygiene, 1982, recertified 1989, 1995, 2001, 2006, 2011, 2016. Passed Subspecialty Examination in Indoor Environmental Quality (IEQ), American Board of Industrial Hygiene, 1993.

Registered Specialist, Exposure Decision Analysis, #119205, AIHA Registry Programs, LLC., 2012, 2015, 2018.

HONORS and NATIONAL PROFESSIONAL ASSOCIATION OFFICE

2015-2018 – member, ABET Board of Delegates, representing AIHA.
1999 - elected a permanent **Fellow** of the American Industrial Hygiene Association.
1987 - 1993 - served as a **Director**, American Board of Industrial Hygiene.
2006 –2009, and 1983-1986 - served as a **Councilor** (Board member), Academy of Industrial Hygiene.
2005 –2008 - **Chair**, Academic Special Interest Group, AIHA.
2000 – 2001 - **Chair**, Exposure Assessment Strategies Committee, AIHA
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).

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 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 (1988-present), Environmental and Occupational Health Sciences (previously Environmental Sciences), School of Public Health,

University of Texas-Houston, Houston, Texas. Admissions coordinator, for EOHS; Annual course responsibilities include the primary sequence in Industrial Hygiene, PH 2245(Fundamentals of IH) & 2250 (Occ. Health Controls); co-instructor for PH 2260 - Occ. Health. Field Trips course; PH 2130 Recognition of Hazards in EOHS (for EOHS majors not in IH); previously taught PH 2498 - Fund. Of Occup. Safety; coordinator for several outside-taught courses in past years, and numerous individual study and thesis courses annually. Manage scholarship activities of students with the American Industrial Hygiene Foundation. Advise or on committees for approximately 10 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, for a number of years.

Recipient of the first annual Faculty Teaching Recognition Award, 2011

1986-present: Administrative head of the Industrial Hygiene curriculum, in the program in 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, 2007, 2010, and 2015; and manage ongoing accreditation activities- development of goals and objectives; established, and coordinate with, Advisory Committee; developing mapping of goals and objectives into courses; and 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, Industrial Hygiene faculty; course responsibilities: Instructor for 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

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:

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, Instructor for Arch. 334/642 Social & Behavioral 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; Meteorological 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 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, 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.
- Accreditation site visitor for ABET, in industrial hygiene.

1971 Summer: John Kirksey & Associates, Houston. Responsible for design/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, CO under DOT contract.

1968 (summer): Midshipman First Class, United States Navy ROTC; Combat Information Center (CIC) watch officer, Dealey-class destroyer escort USS Hammerberg, DE-1016, Portsmouth, RI. Crossed North Atlantic. Gained intimate familiarity with seasickness.

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, 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 December, 1972. Area: Urban Health; 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

Demographic trends in industrial hygienist utilization.

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

Epidemiology of environment-related health problems.

International occupational health.

Developed an online English/Spanish glossary of occupational health

Current awards:

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, by itself, has brought in approx. \$3,000,000 since 1986 (average estimated at \$120,000/yr for 25 years). Previous award period (2011-2015) for industrial hygiene program. Renewal (applying for 5 years) being submitted August 2014, for period July 1, 2015, to June 30, 2020. 9% supported in 2013-2014.

Asthma in Texas Healthcare Professionals II. CDC-NIOSH RO1. 08/2014-07/2018. TDC \$812,536. Co-investigator, working on job-exposure matrix. PI is Dr George Delclos.

VA Oregon, consulting on project on **DoD noise exposure & hearing loss**, funded Oct. 2017.

NIOSH. Consulting on **JEM development project**. Funded June 2016.

RESEARCH and FUNDED TRAINING 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 OSHA PEL Project hearings, wood dust health effects.

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

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.

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 former doctoral advisee.

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. Epidem. Res. Unit, U. of Texas School of Public Health. PI 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. PI, 25%

Principal Investigator, proposal submitted to the Semiconductor Industry Association, Semiconductor Reproductive Epidemiology Study, 1988, \$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; Co-investigator on 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.

Occupational Asthma Questionnaire Development for Health Care Workers. NIOSH, 2001-2005. \$350,000 total direct costs. Co-investigator (5%). PI Dr. G. Delclos.

United States Coast Guard, contract, Air Quality at Sector Houston-Galveston, \$94,000 total cost, Principal Investigator. Oct. 1, 2007-Aug. 31, 2008. Final Report issued.

Short course director for two courses in industrial hygiene and safety (May and August 2008), and invited panelist and on course planning group for a safety culture workshop for Ecopetrol (June 2010), and consult on exposure assessment strategies, contract from Pontificia

Universidad Javeriana, Bogota, Colombia, on behalf of Ecopetrol, S.A., Bogota Colombia. 2007-2010. PI is G. Delclos. Approx 15% support.

Investigation of blue light spectrum in disruption of circadian rhythms in intensive care patients. Dr Sandra Hanneman, PI. Scored but not funded, 2012. Ongoing pilot studies.

DoD, through the Geneva Foundation. to catalog DoD records and data systems on noise exposure and hearing loss. Initial PI was Dr Sharon Cooper. Dr Jose Betancourt later PI, Co-I at 10%. Initial proposal for two years, one year added. Funded Oct. 2012.to Sept. 2015. Funding completed, continued analysis approved.

NIOSH, CDC. Consultation contract, Development of job-exposure matrices. 2016-2017 1st year. 2017-18. 2018-19.

VA, and Oregon Health Sciences University. Consultation, contract, r.e. project on military noise exposure and hearing loss. 2018-

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, TX, 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 & 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 Behavioral Evaluation of Workers Exposed to Mixtures of Organic Solvents. British J. Ind. Med. 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 Eval. 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. Appl. 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. Appl. Ind. Hyg. 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 Actinic Keratoses Among Paraquat Production Workers and a Nonexposed Friend Reference Group. Amer. Journal of Indust. Med. 25: 335 - 347.
17. Cooper, S.P., D. Labarthe, T. Downs, K. Burau, L.W. Whitehead, S. Vernon, M. Spitz, B. New, A.*Sigurdson (1997). Cancer Mortality Among Petroleum Refinery and Chemical Manufacturing Workers in Texas. J. Environ. Pathol., Tox. & 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. J. Expos. Analysis & Environ. Epid. 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. Rad. Protect. Dosim. 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 as p 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). Occup. & Environ. Med. 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). Association Between Asbestos Exposure, Cigarette Smoking, Myeloperoxidase (MPO) Genotypes, & Lung Cancer Risk. Am.J Ind.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. Int'l J. Occup. & Env. Health. 11(2): 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 & the Association with Lung Cancer Risk. Am. J Ind. Med.47(4):349-357.
32. *Patlovich, S., R.J. Emery, L.W. Whitehead (2005). Characterization and Geographic Location 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.H. Stock, E. Symanski, L.W. Whitehead, F.G. Benavides, J.M. Anto (2006). Validation of an Asthma Questionnaire for Use in Healthcare Workers. Occup. Environ. Med. 63: 173-179.
34. *Tovalin-Ahumada, M. Valverde, M. Morandi, S. Blanco, L.W. Whitehead, E. Rojas, (2006). DNA Damage in outdoor workers occupationally exposed to environmental air pollutants. Occup Environ Med. 2006 Apr; 63:230-6.
35. *Tovalin-Ahumada, H., L.W. Whitehead (2007). Personal exposures to volatile organic compounds among outdoor and indoor workers in two Mexican cities. Science of the Total Environment. 376 (1-3): 60-71.
36. Delclos, G.L., D. Gimeno, A.A. Arif, K.D. Burau, A. Carson, C. Lusk, T.H. Stock, E. Symanski, LW Whitehead, J.P. Zock, F.G. Benavides, J.M. Antó (2007). Occupational Risk

factors and Asthma Among Health Care Professionals. Amer. J. Respiratory & Critical Care Med 175(7): 667-675.

37. *Tovalin-Ahumada, H., L. Whitehead, S. Blanco. (2007) Personal exposure to PM2.5 and element composition - A comparison between outdoor and indoor workers from two Mexican cities. Atmospheric Environment 41(35): 7401–7413.

38. *Qureshi, Z., D. Ramsey, J. Kramer, L.W. Whitehead, H.B. El-Serag. (2013) Occupational Exposure & the Risk of Barrett's Esophagus: A Case-Control Study. Dig Dis Sci. 58(7):1967-75.

39. *Gutiérrez, J.M., R.J. Emery, L.W. Whitehead, S.A. Felknor. (2013) A Means for Measuring Safety Climate in the University Work Setting. Journal of Chemical Health & Safety, 20(6): 2-11.

40. *Oluyomi, A.O., L.W. Whitehead, K.D. Burau, E. Symanski, H.W. Kohl, M. Bondy. (2014) Physical activity guideline in Mexican-Americans: does the built environment play a role? J. Immigrant Minority Health. 16(2): 244-255.

41. Shan, M., R. You, X. Yuan, M. Frazier, P. Porter, A. Seryshev, J. S. Hong, L. Song, Y. Zhang, S. Hilsenbeck, L.W. Whitehead, N. Zarinkamar, S. Perusich, D.B. Corry, F. Kheradmand. (2014) Agonistic induction of PPAR- γ reverses cigarette smoke induced emphysema. J. Clinical Investigation, 124 (3): 1371-81.

42. *Gamble, RK, Emery, RJ, Whitehead, LW, Brown, EL, Flores, R (2014) The Feasibility of Using a Rapid Adenosine Triphosphate Bioluminescence Assay as an Objective Means of Assessing the Presence of Biological Contamination on Laboratory Surfaces. Applied Biosafety. 19 (3): 141-148.

43. Cooper, SP, Alamgir, AH, Whitworth, KW, Gorrell, NS, Betancourt, JA, Cornell, JE, Delclos, G, Douphrate, DI, Gimeno, D, Marko, D, Kim, SY, Sagiraju, HR, Tucker ,DL, Whitehead, LW, Wong, NJ, Hammill, TL, Senchak, AJ, Packer, MD. (2014). The Department of Defense Epidemiologic and Economic Burden of Hearing Loss Study. Military Med.179(12):1458-1464.

44. *Anderson, F., Carson, A., Whitehead, L., Burau, K. (2014) Spatiotemporal Analysis of the Effect of Ozone and Fine Particulate on CVD Emergency Room Visits in Harris County, Texas. Open Journal of Air Pollution (OJAP). 3: 87-99.

44. *Patlovich, SJ, Emery, RJ, Whitehead, LW, Brown, EL, Flores, R (2015) Assessing the Biological Safety Profession's Evaluation and Control of Risks Associated with the Field Collection of Potentially Infectious Specimens. Applied Biosafety. 20(1): 27-40.

45. *Lim, H, Agopian, AJ, Whitehead, LW, Beasley, CW, Langlois, PH, Emery, RJ, Waller, DK and the National Birth Defects Preventions Study. (2015) Maternal occupational exposure to ionizing radiation and selected birth defects in the US. Birth Defects Research Part A: Clinical and Molecular Teratology. 103 (4):243-254.

47. *Anderson, F., Carson, A., Whitehead, L. and Burau, K. (2015) Age, Race and Gender Spatiotemporal Disparities of COPD Emergency Room Visits in Houston, Texas. Occupational Diseases and Environmental Medicine, 3:1-9.

48. *Lim H, Beasley CW, Whitehead LW, Emery RJ, Agopian AJ, Langlois PH, Waller KD (2016) Maternal exposure to radiographic exams and major structural birth defects. Birth Defects Research Part A: Clinical and Molecular Teratology. 106(6): 563-572..
49. *Hardos, JE, LW Whitehead, I Han, DK Ott, K Waller (2016) Depression Prevalence and Exposure to Organophosphate Esters in Aircraft Maintainers. Aerospace Medicine and Human Performance. 87(8):712-717.
50. *Pinion, C., S. Brewer, D. Douphrate, L.W. Whitehead, J. DelliFraine, W.C. Taylor, J Klyza (2016) The Impact of Job Control on Employee Perception of Management Commitment to Safety. Safety Science 93: 70-75.
51. Agopian AJ, J Kim, PH Langlois, L Lee, LW Whitehead, E Symanski, ML Herdt, GL Delclos (2017) Maternal occupational physical activity and risk for orofacial clefts. American Journal of Industrial Medicine. 60: 627-634.
52. *Tsenov BG, Emery RJ, Whitehead LW, Reingle Gonzalez J, Gemeinhardt GL.(2018) A pilot examination of the methods used to counteract insider threat security risks associated with the use of radioactive materials in the research and academic setting. Health Phys 114(3): 352-359.

* = students, recent graduates or postdocs/fellows, at time of publication or submission

In final preparation

*Staudt, AM, Whitworth KW, Chien LC, Whitehead LW, Gimeno D. (2018) Association of Organic Solvents and Occupational Noise on Hearing Loss and Tinnitus among Adults in the U.S., 1999 to 2004. submitted to Intl. Arch. Occup. and Env. Health.

ONLINE DOCUMENT

Whitehead, L.W. English/Spanish Glossary of Terminology in Occupational and Environmental Health. <https://sph.uth.tmc.edu/content/uploads/2010/08/SWCOEH-EOH-glossary-English-Spanish-v.3.0-beta.xlsx> . approximately 60,000 English-Spanish term pairs, terminology in environmental and occupational health, public health, biostatistics and epidemiology, and industrial and technology terms.

BOOK CHAPTERS

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.

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

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.

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 Conf., Houston, TX, May 18-23, 1980.

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5. Ashikaga, T., P.M. Vacek, LW Whitehead (1980). "Application of Survival Analysis to the Problem of Wood Dust Exposure and Decreased Pulmonary Function." Abstract. Summaries of Papers, Jt.Stat. Mtgs, (Amer.Stat.Assoc., Biom.Soc.).Houston, Aug. 1980.

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7. Whitehead, L.W. (1981). "Health Effects of Wood Dust-Relevance for an Occupational Standard." Abstracts. Amer.Indust.Hyg.Conf., Portland, OR May 1981.

8. Whitehead, L.W., G.L. Ball, L.J. Fine, G.D. Langolf (1982). "Solvent Vapor Exposures in Spray Painting and Spray Gluing." Abstracts. Amer.Indust.Hygiene Conf., Cincinnati, Ohio, June 5-11, 1982.

9. Whitehead, L.W. (1982). "Occupational Health Issues in Workplace Planning." Abstracts. Amer. Indust. Hygiene Conf., Cincinnati, OH, June 1982.

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 Conf., Philadelphia, PA, May 1983.

11. *Hansen, D.J., J. Foulke, LW Whitehead (1984). "Computerized Spirometry Using a Portable Microcomputer." Abstracts. Amer.Indust.Hygiene Conf., Detroit, MI, May 1984.

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 Conf., Las Vegas, NV, May 20-24, 1985.

13. *Hansen, D.J. and L.W. Whitehead (1985). "Exposure Group Determination by Simple Survey Methods." Abstracts. Amer.Indust.Hyg.Conf., Las Vegas, NV, May 1985.

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.

15. 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 Conf., Dallas, TX, May 1986.

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27. *Dautel, P., L.W. Whitehead, M.M. Sockrider (1997) "An Elementary School Environmental Survey for Asthma Irritant Triggers & Air Quality." Amer. Thoracic Soc. Annual Conf., Apr. 1997.
28. 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. & Expo., Dallas, TX, May 17-23, 1997.
29. Whitehead, L.W. (1997) "Edificios Contaminados, Indoor Air Quality, Contaminaciones Interiores Y Exteriores, Materiales Involucrados. Control de Edificios Enfermos, Proc. de Descontaminacion." Invited paper, pres. in English. 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.

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31. *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, Nov.1998.
32. Bartholomew, L.K., S. Tortolero, S.Abramson, M.Sockrider, L.W.Whitehead, S.*Tyrell (1998) "Environmental Characteristics of Urban Elementary Schools: Focus on Asthma." APHA, 126th Annual Meeting, Nov.15-19, 1998, Washington, DC.
33. *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.
34. Whitehead, L.W. (2000) "An AIHA Exposure Assessment Strategies Committee Perspective: Mission for the Millennium: Developing New Industrial Hygiene Tools and Methods." Amer. Indust. Hyg. Conf. & Expo., Orlando, FL, May 2000.
35. Whitehead, L.W. (2000) "Emerging Issues in Industrial/Occupational Hygiene: Exposure Assessment Strategies." Amer.Indust.Hyg.Conf.& Expo., Orlando, FL, May 2000.
36. *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.
37. *Rodriguez, V., and LW. Whitehead. (2006) "Trends and Projections for Numbers of Industrial hygienists, by Industry, Industrial Division, and Overall." Amer. Indust. Hyg. Conf. & Expo., Chicago, IL, May 13-18, 2006.
38. Whitehead, L.W., and N. Agra-Mallo (2010) "Development of an Internet-Based Spanish-English Occupational Health Glossary." National Action Summit for Latino Worker Health and Safety. Houston, TX. April 14-15, 2010.
39. Whitehead, L.W., and N. Agra-Mallo (2010). "Un Glosario en Línea de Términos en Español-Inglés para la Salud Ambiental y Ocupacional, y Seguridad. An Online Glossary of Terms in English/Spanish for Environmental and Occupational Health and Safety." Amer. Indust. Hygiene Conf. & Expo., Denver, CO, May 23-27, 2010.
40. *Salazar, E. and L. Whitehead (2010). A System for Capturing and Analyzing Impact Sounds with Readily Available Components. Amer. Indust. Hygiene Conf. & Expo., Denver, CO, May 23-27, 2010.
41. Whitehead, L.W. (2010). Use of Survival Analysis Techniques to Project the Future Number of CIHs. Amer. Indust. Hygiene Conf. & Expo., Denver, CO, May 23-27, 2010.
42. Whitehead, L.W. (2010). invited expert panelist, and planning group member, "Seminario Taller: Liderando la cultura hacia el compromiso con la vida." (Seminar and workshop: Leading

the culture toward the commitment with life; (safety culture).) 16, 17 y 18 de junio de 2010, Hotel La Fonda, Bogotá, Colombia. Pontificia Universidad Javeriana, Bogotá, for Ecopetrol, S.A.

43. *Oluyomi, A., M. Bondy, L.W. Whitehead, K. Burau, E.Symanski (2010). "Using Geographical Information Systems (GIS) to create objective measures of the built environment: toward assessing built environment correlates of physical activity and obesity.", The 9th Int'l. Conf. on Urban Health (ICUH 2010), New York, Oct. 2010.

44. Stock, T.H., L.W. Whitehead, L. Pompeii, D. *Beasley and C.M. *Maypole (2011) Characterization of Indoor-Outdoor Air Quality at a Coast Guard Facility Near the Houston Ship Channel, Amer.Indust.Hyg.Conf. & Expo.,Portland, OR, May 15-19, 2011.

45. Whitehead, L.W., L. Pompeii, T. Stock, C.M. *Maypole, D. *Beasley (2011) U.S. Coast Guard Sector Houston-Galveston Air Quality Risk Analysis Study- Community Air Quality, Amer. Indust. Hygiene Conf. & Expo., Portland, OR, May 15-19, 2011.

46. *Wills RA, Amick BC, Gimeno D, Whitehead LW. (2012) A Comparison of Worker Risk of Injury While Working on Fully-Automated Side Loaders and Other Residential Collection Trucks at a Large Solid Waste Collection Company. 2012 Global Waste Management Symposium, 30 September-3 October 2012. Phoenix, AZ.

47. Stock TH, Whitehead LW, Pompeii L, *Beasley D, *Maypole C. (2012) Characterization of Indoor-Outdoor Air Quality at a Coast Guard Facility near the Houston Ship Channel. American Industrial Hygiene Assoc. Fall 2012 Conf., Bringing IH Expertise to the Community, 29-30 October 2012, San Antonio, TX.

48. Alamgir H, K Whitworth, S Cooper, D Tucker, N Gorrell, D Gimeno, LW Whitehead, J Betancourt, J Cornell, D Douphrate, G Delclos, D. Marko, H Sagiraju, T Hammill, A Senchak, M Packer. (2014). The Department of Defense Epidemiologic and Economic Burden of Hearing Loss Study: Preliminary Results. Amer.Indust.Hygiene Conf.&Expo.,San Antonio,TX, May 31-June 5, 2014.

49. Lim H*, Agopian AJ, Whitehead LW, Beasley C, Langlois PH, Emery RJ, Waller DK. Parental occupational exposure to ionizing radiation and selected birth defects in the US. 24th Int'l. Epid. Conf. Occup. Health (EPICOH). June 24-27, 2014 Chicago, IL.

50. Patlovich, S*, R Emery, LW Whitehead, E Brown. Assessing the Biological Safety Profession's Evaluation & Control of Risks Associated with the Field Collection of Potentially Infectious Specimens. ABSA Ann. Biol. Safety Conf., San Diego, Oct. 2014.

51. *Hardos, JE, LW Whitehead, I Han, D.K. Ott, K Waller (2016) Depression Prevalence and Exposure to Organophosphate Esters in Aircraft Maintainers. Aerospace Medicine Association annual conference. April 24-28, 2016, Atlantic City.

52. Whitehead, L.W., D. Tucker, D. Gimeno, K. Whitworth, J. Betancourt, S. Leonard, A. Zhang, A. Senchak (2016) Descriptive Evaluation of Noise Dosimetry Values in the Defense Occupational and Environmental Health Readiness System— Industrial Hygiene Component (DOEHRS-IH). Amer. Ind. Hyg. Conf. & Expo., Baltimore, MD, May 22-26, 2016. Baltimore, MD.

53. *Hardos, JE, LW Whitehead, I Han, D.K. Ott, K Waller (2016) Depression Prevalence and Exposure to Organophosphate Esters in Aircraft Maintainers. Amer. Ind. Hyg. Conf. & Expo., Baltimore, MD, May 22-26, 2016. Baltimore, MD.

54. Lewis, R., and LW Whitehead. Current and Future pressures on academic IH programs. Amer. Ind. Hyg. Conf. & Expo., Philadelphia PA, May, 2018.

* = students, recent graduates, or postdocs/fellows at time of publication or submission

TECHNICAL REPORTS & PUBLICATIONS other than peer-reviewed journals or chapters.

1. Whitehead, L.W. (1969). "Advocacy Planning" in Urban Futures U.S.A.. Proc. of a National Student Conference at Rice Univ., March, 1969, ed. by C.L.Horstman.

2. Whitehead, L.W., Severs, R.K., Davis, E.M., *Ooi, W., & 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.

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., Dept. of Epid. & Environ. Health, Univ. of VT, 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 Behav.Eval. of Workers Exposed to Solvents Used in Spray Painting – Contr. #210-80-0003. Ann Arbor, MI: Schl. Pub. Health, Univ. MI.

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. PI 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. Cooper, S.P., L.Whitehead, D.Labarthe, T.Downs, et al. (1994) Crit. Rev. of Cancer in Texas, with Emphasis on Environ. & Occupational Cancer. A contract report for the Texas Instit.for Advanc. Chem. Tech.,Texas A&M Univ., College Station TX, 112 p.
14. Whitehead, L.W., L. Pompeii, T. Stock, D. *Beasley, C. *Maypole (2008) U.S. Coast Guard Sector Houston-Galveston Air Quality Risk Analysis Study. Contract Rpt.,240 p.
15. Whitehead, L.W., and N. Agra-Mallo (2008) SWCOEH Metaglosario de Terminos de Salud Ocupacional en Inglés y Español/SWCOEH Metaglossary of Occupational Health Terms in English and Spanish. Version 1.02. Southwest Center for Occupational and Environmental Health, The University of Texas School of Public Health. Division of Environmental and Occupational Health Sciences, Houston TX. (2010) Version 2, Nov. 15, 2010; 30,396 term pairs. (2012) Version 3.0 posted, approx. 60,000 term pairs.

OTHER PRESENTATIONS

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

"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.

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

"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, & Building Materials." 1st National Congress on Sick Building Syndrome, Madrid, Spain, Disinfecciones Alcora, Sep. 1997.

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

- noise measurements in occupational audiometry, several times annually;
- 2007-2008 Fundamentals of Industrial Hygiene, and Sampling for Industrial Hygiene.
- certificate courses in industrial hygiene. Co-taught with Jimmy Perkins.
- Same courses, 2014-present, taught with Inkyu Han.

Also taught translated into Spanish, and with translated presentations, Pontificia Universidad Javeriana, Bogota Colombia, 2008-2010.

PROFESSIONAL SOCIETY AND BOARD MEMBERSHIPS

ABET (Accred. Board for Engineering & Technology)- **Member, Board of Delegates**, representing AIHA, 2015-present.

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

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

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

AIHA Yuma Pacific section, invited member, life member status.

American Academy of Industrial Hygiene, 1982 - present. (elected a Councilor of AAIH for 1983-1986; and again in 2006 to 2009; the AAIH Council is the Board of Directors).

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

NATIONAL COMMITTEE AND REVIEW APPOINTMENTS.

2002-2012 – member, **Occupational Health Advisory Board to the National Joint Committee for Health and Safety, United Auto Workers & General Motors.**

1987 - present: **Academic Accreditation Committee**, Amer. Industrial Hygiene Association/**ABET site reviewer: 19 site visits, 1989-2014.**

1988 - 2009: **Training Grant Reviewer, NIOSH: 12 site visits, 1988-2009**

2005 – 2008, Chair, **Academic Special Interest Group, Amer. Industrial Hyg. Assoc.**

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

2005 – 2006. member, Nominating Committee, Amer. Conf. Gov. Industrial Hygienists.

2005-2006. Invited reviewer, degree programs, Eastern TN State Univ., Univ. of MN – Duluth.

2000-2002 - member, **Scientific Advisory Comm., Semiconductor Industry Assoc.**

1993 - 2002: **Exposure Assessment Strategies Committee**, AIHA. Chair, 2000.

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

1987: Invited Reviewer - Ford Motor Co. – UAW Occupational Health Res. Program.

COMMITTEES - DEPARTMENT OR SCHOOL LEVEL (Univ. Of Texas), current.

2009 – present: Admissions Coordinator, Program in Environmental and Occupational Health Sciences; member, Admissions Committee, UT School of Public Health.

2013-2014, and 2016-present: EOHS Curriculum Committee. CEPH accreditation planning.