

BRENT A. ALTEMOSE

Health and Safety Professional Industrial Hygienist

Expertise in industrial hygiene, local exhaust ventilation, indoor air quality, pharmaceutical and chemical control banding, industrial noise, cost/benefit analysis, and statistical analysis of industrial hygiene data

Unique blend of industrial hygiene, engineering, and safety expertise. Began career as a ventilation engineer, has worked for 20 years leading and developing programs in the utility, pharmaceutical, medical device, and consulting industries.

Has conducted numerous air and noise exposure assessments in a wide variety of industries. Has designed local exhaust ventilation systems for the control of chemical exposures in a variety of manufacturing industries. Has also conducted hundreds of indoor air quality investigations for mold and chemical exposure concerns, including inspections and testing of building ventilation systems and leading all industrial hygiene sampling for a research project on chemical emissions from spray polyurethane foams.

Industrial Hygiene Expertise
Local Exhaust Ventilation
Potent Compound Safety
Indoor Air Quality

Industrial Noise
Cost/Benefit Analysis
Risk Assessment and Communication
Statistical Analysis of Data

Doctor of Philosophy in Environmental and Occupational Health, Master of Science in Industrial Hygiene, Bachelor of Science in Mechanical Engineering, Certified Industrial Hygienist, and Certified Safety Professional

CAREER HIGHLIGHTS

SABRE HEALTH & SAFETY LLC, Easton, PA • 2007-Present

President & Principal Consultant

- Conduct risk assessments and exposure monitoring for occupational exposure to environmental agents such as laboratory and industrial chemicals, active pharmaceutical ingredients, noise, ionizing radiation, and non-ionizing radiation
- Conduct and manage industrial hygiene evaluations and related monitoring in a variety of industries including laboratories, construction sites, and manufacturing and industrial facilities (pharmaceuticals, medical device, utilities, printing, incinerators, and others)
- Provide technical expertise and solutions in the areas of safe chemical management, new processes/equipment/product development, identification of appropriate personal protective equipment, and safety/industrial hygiene standards interpretation
- Designed ventilation to control exposures in a variety of applications, including laboratory applications, chemical production, and medical device manufacturing
- Identified and controlled the source of numerous indoor air quality complaints from a variety of sources including mold, improperly balanced ventilation systems, improperly applied spray polyurethane foam insulation, vapor intrusion, and exhaust re-entrainment
- Wrote or contributed to best-in-class corporate design standards for laboratories, process safety, confined spaces, and other applications
- Led noise reduction efforts at a medical device manufacturing facility
- Oversaw all field sampling for large research project to evaluate emissions and exposure to chemicals from spray polyurethane foam insulations
- Conducted process safety management audits at a biodiesel refinery and a consumer products manufacturing plant
- Facilitated process hazard analyses for pharmaceutical operations and at a biodiesel refinery
- Reviewed and summarized peer-reviewed journal articles to support the Environmental Protection Agency's Integrated Science Assessment for particulate matter

ETHICON (JOHNSON & JOHNSON), SOMERVILLE NJ, 2003-2007

Lead Industrial Hygienist

- Mentored professionals from around the globe on industrial hygiene for a medical device company with 26 worldwide operating locations and over 5,000 employees
- Served as the site Chemical Hygiene, Radiation Safety, Biosafety, and Laser Safety Officer
- Established a protocol and criteria for testing of all local exhaust and laboratory ventilation
- Designed ventilation to control exposures to anesthetic gas used in veterinary practice

ALZA (JOHNSON & JOHNSON), VACAVILLE, CA, 2001-2003

Safety & Industrial Hygiene Engineer

- Managed the health & safety programs and emergency response team at a pharmaceutical plant
- Led process safety management compliance for a covered process at the plant
- Served as squad leader for a 60 person chemical spill and first aid response team

COLORADO SPRINGS UTILITIES, COLORADO SPRINGS, CO, 1998-2001

Safety Administrator

- Managed safety and health concerns for a department where worker's compensation costs were cut in half, saving \$200,000 per year

ENVIRONMENTAL HEALTH & ENGINEERING, NEWTON, MA, 1995-1998

Industrial Hygiene & Engineering Consultant

- Conducted and managed industrial hygiene evaluations and related monitoring in a variety of industries including laboratories, construction sites, hospitals, and manufacturing and industrial facilities (pharmaceuticals, textiles, microelectronics, incinerators, and others)
- Provided design and construction oversight for new office and laboratory buildings in order to minimize employee exposures and ensure good indoor air quality
- Designed ventilation to control exposures in a variety of applications, including laboratory applications and adhesives cured in an oven at a footwear manufacturing facility
- Identified and controlled the source of numerous indoor air quality complaints from a variety of sources including mold, broken sewer pipes, improperly balanced ventilation systems, vapor intrusion, and exhaust re-entrainment
- Conducted ambient air quality monitoring for particulate matter, volatile organic compounds, mold spores, and other parameters and agents at more than ten sites across the United States, as a part of the Environmental Protection Agency's Building Assessment Survey and Evaluation (BASE) Study
- Led a \$100,000 emergency asbestos abatement project for an elementary school

ROCKY FLATS, GOLDEN, CO, INDUSTRIAL HYGIENE INTERN, 1995

RHONE POULENC, RESEARCH TRIANGLE PARK, NC, INDUSTRIAL HYGIENE INTERN, 1994

EDUCATION / CERTIFICATION

Doctor of Philosophy in Environmental and Occupational Health

Rutgers University, School of Public Health

Master of Science in Industrial Hygiene (NIOSH and DOE Fellowships Recipient)

The University of North Carolina – Chapel Hill, School of Public Health

Bachelor of Science in Mechanical Engineering

The Pennsylvania State University, College of Engineering

Certified Industrial Hygienist #8766, Diplomate, American Board of Industrial Hygiene

Certified Safety Professional #15817, Diplomate, Board of Certified Safety

SELECTED PUBLICATIONS / PRESENTATIONS

Altemose, B.A. Air pollution source apportionment before, during, and after the 2008 Beijing Olympics and association of sources to aldehydes and biomarkers of blood coagulation, pulmonary and systemic inflammation, and oxidative stress in healthy young adults. (Doctoral dissertation). Rutgers University, New Brunswick, NJ, May 2014.

Altemose, B.A., M. Turina. Employee Driven Ergonomics. Presented at Nordic Ergonomics Society, Reykjavik, Iceland, August 2013.

Instructor, One-day Professional Development Course, Applying and Implementing Health Hazard and Control Banding Strategies in the Real World. American Industrial Hygiene Conference & Exposition (AIHCE), Portland, OR, May 2011; Indianapolis, IN, June 2012; Montreal, Canada, May 2013.

Altemose, B.A. Hazard banding and control banding – shortfalls and pitfalls. Presented at American Industrial Hygiene Conference & Exposition (AIHCE) in Portland, OR, May 2011.

Altemose, B.A. Evaluating chemical exposure risks in the workplace: Is there a better approach? Presented at Society for Risk Analysis Annual Meeting in Salt Lake City, UT, December 2010.

Altemose, B.A. Understanding industrial hygiene statistics. Presented at American Society of Safety Engineers (ASSE) Conference in Baltimore, MD, June 2010.

Altemose, B.A. Application of control banding to a chemical approval process. Presented at American Industrial Hygiene Conference & Exposition (AIHCE) in Denver, CO, May 2010.

Altemose, B.A. Evaluation of control banding through statistical analysis. Presented at AIHCE in Minneapolis, MN, May 2009.

Altemose, B.A. Chapter on Cost Benefit Analysis of Safety & Health Training published in the new ASSE Safety Handbook, June 2008.

Altemose, B.A., T. Grubb, and K. Duffer: Evaluation and control of hydrogen fluoride exposure from a plasma oven. Presented at AIHCE Conference in Philadelphia, PA, May 2007.

Altemose, B.A. Application of local exhaust ventilation to control occupational exposure to isoflurane gas used as anesthesia in veterinary practice. Presented at AIHCE/VENT 2006 Conference in Chicago, IL

Altemose, B.A., M.R. Flynn, and J. Sprinkle: Application of a tracer gas challenge with a human subject to investigate factors affecting the performance of laboratory fume hoods. *American Industrial Hygiene Association Journal*. 59:321-327 (1998).

PROFESSIONAL LEADERSHIP

Lehigh Valley Section President, American Industrial Hygiene Association, 2010-2011

Session Arranger and Member, AIHA Control Banding Working Group, 2009-present

Pikes Peak Section Treasurer, American Society of Safety Engineers, 1999-2001