

Christopher J. Wesley, CIH
Principal
Senior Industrial Hygienist

Summary of Qualifications

- 20+ years delivering industrial hygiene surveys, indoor environmental quality investigations, EHS program support, audits, and chemical management
- 10+ years principal of Colden Corporation
- Designed numerous corporate EHS programs targeting regulatory compliance, best practice, chemical handling, EHS management systems, safety, loss control, and emergency response
- Delivered dozens of industrial hygiene, safety, chemical awareness, and emergency preparedness training sessions
- Designed and managed many large-scale hazardous materials abatement projects

Professional Certifications/Associations

- American Board of Industrial Hygiene, Certification in the Comprehensive Practice of Industrial Hygiene (CIH)
- American Industrial Hygiene Association, National and Philadelphia local chapter
- Former executive committee member for American Industrial Hygiene Association, Philadelphia Local Chapter. Chairperson for the 2006 Northeast Regional Industrial Hygiene Conference
- American Conference of Governmental Industrial Hygienists
- National Fire Protection Association and Fire Service Section
- Mid-Atlantic Construction Safety Council

Professional Highlights

COLDEN CORPORATION

Working out of Colden's Philadelphia headquarters, Mr. Wesley provides client management and multidisciplinary consulting in a leadership capacity. Specializes in industrial hygiene consulting for industrial, commercial, institutional, and construction operations.

OSHA-VPP Support – Manages on-site industrial hygiene and chemical management services for a locomotive and heavy transportation equipment manufacturer (3,000+ workers) having OSHA Voluntary Protection Program Star Status. Evaluates exposures to stressors during welding, machining, painting, and assembly. Provided services at multiple locations for 10+

years. Supports exposure monitoring, hearing conservation, confined-space entry, risk assessment, and respiratory protection programs.

Nationwide Welding Exposure Study – Designed and managed quantitative IH study for exposure to hexavalent chromium during welding. Surveyed 30+ nationwide shops dedicated to manufacturing and repair of power generation and industrial equipment. Evaluated MIG welding, SMAW, TIG welding, metal spraying, air-arc cutting, torch cutting, brazing, grinding and submerged arc welding. Compiled and analyzed 200+ personal exposure monitoring records. Presented results to management, medical providers and employees.

Beryllium Exposure Assessment and Reduction – Conducted baseline IH surveys for beryllium specialty metals manufacturer, and downstream customers. Performed air and surface sampling; particle size characterization; statistical analysis to define similar exposure groups and assess risks; process emissions studies; ventilation system performance assessment; EHS program development. Participated in exposure reduction team involving employees, management, medical providers, and NIOSH. Supports ongoing product stewardship program.

Television Network EHS Consulting – Conducted hundreds of environmental and occupational health and safety reviews of studio and news broadcast tasks for major television network. Produced job hazard analyses, recommendations, and personal protective equipment assessments for over 1,000 engineers, camera operators and managers. Provides periodic training in confined-space entry, hazard communication, laser safety, respiratory protection, compressed gas safety, fall protection. Reviewed sports stadiums, auto racetracks, studios and remote news set-ups for issues such as fall protection, RF safety, chemical use, laser safety, electrical exposures, lightning protection.

Special Effects Exposure Assessment – Characterized exposures to chemicals used or potentially emitted during special effects in entertainment production studios. Addressed pyrotechnics, flame effects, smoke generating machines, fire extinguisher use, special effect dust.

Fire Recovery – Provided rapid indoor environmental quality evaluation and remediation support following a major fire in a New York City news desk and studio building. Began air monitoring within hours of fire control. Recommended actions to limit water damage, prevent mold growth, control odors, provide adequate ventilation, and assure occupant health and safety upon re-occupancy. Communicated with employees and their union representatives, managers, emergency responders, corporate and insurance loss control representatives, and recovery contractors. Provided seminars to explain monitoring results and corrective actions to employees.

Laboratory EHS Support – Provided comprehensive health, safety and environmental services for a major science and technology research center consisting of approximately 300 laboratories. Serviced chemistry, physics, biology research laboratories. Assisted site with OSHA VPP approval process, facilitated process safety and environmental management reviews, performed

routine environmental health and safety audits for laboratories. Prepared written guidelines, hazard-specific programs, and training materials.

Steel Structures Lead Abatement – Served as project industrial hygienist for the removal of lead-based paint from the Ben Franklin Bridge in Philadelphia, Pennsylvania. Provided technical expertise associated with lead containment, confined-space entry, environmental monitoring, fall protection, worker exposure assessments, and biological monitoring. Also addressed arsenic, chromium, and replacement coating ingredients. Participated in biweekly project safety meetings over several years. Provided monthly reports summarizing worker exposures, environmental monitoring results, and blood lead levels for hundreds of painters, blasters, and rigging employees.

Emergency Preparedness – Prepared an emergency action plan for a fiber optic manufacturing facility using high-hazard materials including bulk oxygen and hydrogen (storage and distribution), hydride gases, fluorine, and hydrofluoric acid.

Disaster Recovery – Assisted a major television news network in response activities associated with the World Trade Center disaster and biological terrorism threats. Conducted air and surface sampling for structural fire emissions, dust, and biological contaminants. Provided chemical awareness and respiratory protection training for hundreds of news-gathering employees and talent.

Loss Control Services – Performed hundreds of workers' compensation and general liability risk assessment and loss-control surveys for the insurance industry. Evaluated construction, vehicle maintenance, hazardous materials remediation and manufacturing sites (plastics, activated carbon, crane attachments, building materials, chemicals, and refractories). Addressed employee exposures to chemicals and noise, fire safety, electrical safety, fall protection, chemical handling, and work practices.

Hazardous Waste Remediation – Managed on-site worker health exposure monitoring during excavation of soils containing hazardous wastes to support power generation equipment construction in Astoria, Queens.

Indoor Air Quality – Performed hundreds of indoor air quality, mold, and odor investigations for commercial and residential buildings. Worked on behalf of owners, tenants, attorneys, and insurers. Evaluated, designed and monitored remediation progress address mold growth and the deterioration of insulation inside ventilation systems for several large commercial buildings.

Litigation Support, Noise – Assisted counsel by monitoring noise and vibration exposures for employees in offices occupied by healthcare professionals. Assisted counsel by monitoring noise during dishwashing activities for a healthcare facility. Assisted counsel by establishing retrospective noise exposures for employees in the shipping department of a healthcare facility. Provided deposition.

Litigation Support, Chemical Exposure – Assisted counsel by determining exposures to paint ingredients at an auto-body repair shop. Reviewed case records and compared exposure monitoring results with applicable exposure limits. Provided deposition. Assisted counsel for tenant in office space adjacent to plastics manufacturing operation. Conducted air sampling and investigated factors such as ventilation systems potentially affecting chemical migration.

GALSON CORPORATION

Provided client management and multidisciplinary consulting on hundreds of IH and EHS projects. Specialized in industrial hygiene, indoor environmental quality and hazardous materials remediation.

Industrial Hygiene Surveys – Performed hundreds of industrial hygiene surveys over several years for a heavy transportation manufacturing business. Evaluated welding, painting, assembly, electronics, and machining operations. Conducted annual noise surveys supporting a hearing conservation program covering more than 1,000 employees.

EHS Auditing – Participated in a comprehensive health and safety audit for West Valley Nuclear Services, a Department of Defense radioactive waste processing facility in Western New York State. The audit included detailed analysis of facilities, chemicals, and equipment for each job task performed by the site's 800 employees. Exposure monitoring was performed based on audit findings.

Hazardous Materials Abatement – Prepared specifications for high-risk projects such as removal of lead-based paint from bridges, transmission towers, and water storage tanks. Provided oversight for extensive mold-remediation projects. Provided asbestos and lead-based paint inspections, abatement designs, and project monitoring. Provided health and safety oversight during renovation of several floors of the VA Medical Center in Albany, NY.

Construction and Demolition – Prepared a site-specific chemical health and safety plan to protect construction workers performing demolition of a major pharmaceutical manufacturing site. Evaluated the potential for residual pharmaceutical ingredients and products in concealed spaces such as above ceilings and in drain traps. Specified segregation of waste streams for characterization and disposal, with a preference for recycling where feasible.

Litigation Support – Assisted counsel by evaluating worker exposures to brazing materials during appliance manufacturing. Testified at hearing.

Education

- Rochester Institute of Technology
Bachelor of Science, Biotechnology (1988)

Lectures, Presentations, and Publications

- Presentation: “Local Exhaust Ventilation and other Exposure Variables during Welding,” Fifteenth CPWR/NIOSH Engineering and Work Practice Controls Work Group (March 2009)
- Presentation: “The Hazards Associated with Metals Dust,” New Jersey State Industrial Safety Committee Winter Training Session (January 2004)
- Presentation: “EHS Issues During the Painting of the Ben Franklin Bridge,” Philadelphia AIHA Local Chapter (September 2003). Also provided for the Central New Jersey local chapter ASSE
- Publication: “Heat Stress Basics,” Industrial Hygiene & Safety News electronic newsletter (September 2003)
- Publication: “Seven Steps to Planning and Industrial Hygiene Survey for Welding,” Industrial Hygiene & Safety News (February 2002)
- Provided instruction on the principles of industrial hygiene, noise and indoor air quality at New York Medical College. The course was provided as part of NYMC’s master’s program in public health (1996)
- Provided instruction on toxicology associated with chemicals in the healthcare setting at New York Medical College. The course was provided as part of NYMC’s Certified Healthcare Environmental Manager seminar (1996)
- Presentation: “Indoor Air Quality, Asbestos and Lead-Based Paint Risks Posed by Poor Indoor Air Quality in Office Buildings” at the Strategic Research Institute conference “Office Leasing from the Tenant’s Perspective for the Association of the Bar of the City of New York” (September 1996)
- Presentation: “1994 OSHA Asbestos Standards,” Federal Safety & Health Council of Central New York (1994)

Additional Experience**FIRE SERVICE VOLUNTEER**

- Chief Engineer, Rose Tree Fire Company, Upper Providence, Pennsylvania. Responsible for the overall readiness of the apparatus and equipment
- Firefighter, certified by the National Board on Fire Service Professional Qualifications (Pro Board) and Pennsylvania State Fire Academy in accordance with NFPA standards
- Vehicle Rescue Technician, certified by the Pennsylvania Department of Health
- Completed training in the National Incident Management System (NIMS) modules IS-100 and IS-700, flashover survival, HAZWOPER first responder awareness, CPR, First Aid, AED, bloodborne pathogens