

ERIC J. RASMUSON, M.S., C.I.H.
Certified Industrial Hygienist

EDUCATION

M.S. Information Systems, Graduate School of Business, University of Colorado, 2001
Colorado School of Mines and Metropolitan State College of Denver, 1994-1998, pre-requisite course work in core sciences/math for industrial hygiene certification
B.A. Political Science, Colorado State University, 1992

Continuing Education

Creation, Measurement and Communication of EHS Business Value, Professional Conference of Industrial Hygiene, Denver, 2005

Risk Management, Insurance, and Business Continuity Primer for Industrial Hygienists, Professional Conference of Industrial Hygiene, Denver, 2005

New Miner Health and Safety Training Course, Colorado School of Mines – Mine Safety and Health Program, 2005

Industrial Hygiene Management Symposium, American Industrial Hygiene Conference and Exposition, 2005

QMI Occupational Health and Safety Assessment Series (OHSAS) 18001:1999 Lead Auditor Training Course, Canadian Standards Association, 2005

Principles of Machine Guarding, American Society of Safety Engineers, 2005

QMI OHSAS 18001 – Essentials, Canadian Standards Association, 2005

Practical Examples of Dermal Exposure Assessment, American Industrial Hygiene Association – Rocky Mountain Section, 2004

Certificate in Management for Industrial Hygiene and Occupational and Environmental Health & Safety Professionals: General Management and Leadership, American Industrial Hygiene Association, 2003

Comprehensive Review of Industrial Hygiene, Rocky Mountain Center for Occupational and Environmental Health, 2003

Decommissioning – Biological Risk, American Industrial Hygiene Conference and Exposition, 2002

Noise Control, American Industrial Hygiene Association – Rocky Mountain Section, 2002

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Aerosol Sampling: Principles and Practice, American Industrial Hygiene Association – Rocky Mountain Section, 1998

State of Colorado Certified Asbestos Inspector/Management Planner, AHERA Asbestos Course for Asbestos Inspector/Management Planner and Annual Refresher Training, Environmental Training and Consulting, January 1998–March 2000

EPA-Approved AHERA Asbestos Course for Asbestos Abatement Supervision and Annual Refresher Training Courses, The Environmental Training Center and Gobbell Hays Partners, Inc, June 1991–September 1998

40-Hour Hazardous Waste Site Safety (OSHA) Training in Compliance with 29 CFR 1910.120, Red Rocks Community College, July 1992

EXPERIENCE

Mr. Rasmuson is a Certified Industrial Hygienist (CIH) with over thirteen years experience in general health and safety and classical industrial hygiene consulting as well as management systems analysis, design, and development..

Mr. Rasmuson became certified in the Comprehensive Practice of Industrial Hygiene by the American Board of Industrial Hygiene (ABIH) in 2004 and is an active member in each of the American Industrial Hygiene Association (AIHA) Management and Computer Applications Committees. He was a contributing author of the Joint American Society of Safety Engineers (ASSE), AIHA, ABIH, and Board of Certified Safety Professionals (BCSP) position paper outlining minimum qualifications for auditors performing third-party Occupational Health & Safety Management Systems audits. He developed a technical roundtable for the 2006 American Industrial Hygiene Conference and Exposition regarding information technology used to implement environmental health and safety management systems, and is currently a contributing author for the upcoming revision of AIHA's *Industrial Hygiene Auditing, A Manual for Practice*.

He has developed and managed environmental health and safety management systems consulting and industrial hygiene profit-centers, including budgeting, marketing and sales, contracting, project management, personnel, and scheduling.

Mr. Rasmuson manages corporate health and safety liabilities through the development and oversight of corporate environmental health and safety programs, including confined space entry, respiratory protection, hazard communication, and hearing conservation programs.

He performs classic industrial hygiene services, including anticipation, recognition, evaluation, prevention, and control of workplace and environmental health hazards, industrial hygiene

exposure assessments, environmental health and safety management system audits, regulatory compliance audits, and health and safety program organization and development.

PROJECT EXAMPLES

Provided mediation support for a property-liability case involving the purchase of a large shopping mall that contained substantial quantities of undocumented asbestos-containing materials. Supported case settlement/mediation efforts through third-party technical review of asbestos-containing material inspection and abatement activity reports. Evaluated due diligence conducted prior to sale of the property and reviewed the associated inspection activities and cost effectiveness of the abatement approaches. Actively participated in mediation sessions that resulted in settlement.

Performed third-party technical observation and on-site review of suspect asbestos-containing material inspection activities for an asbestos related personal injury case, in which the plaintiff claimed exposure to asbestos during office renovation activities.

Researched, evaluated, and documented numerous occupational and non-occupational work histories for exposure to physical and chemical antagonists in support of expert witness testimony, and performed preliminary exposure and apportionment assessments.

Directed, managed and audited asbestos and lead paint consulting activities for national property developers and multifamily housing investment firms, including program management, review and critique of asbestos and lead-based paint surveys, the development of abatement specifications and abatement designs, and the development and implementation of operations and maintenance programs. Performed such asbestos-consulting activities throughout the United States (including Massachusetts, Arizona, California, Florida, Georgia, Indiana, Missouri, Montana, Nevada, Oklahoma, Pennsylvania, South Dakota, Tennessee, Texas, Utah, and Virginia) for a large national investor.

Designed and specified technical requirements to characterize and abate building contamination resulting from uncontrolled asbestos releases in a multi-family housing property according to local, state, and federal regulations, including use of state-of-the-art ASTM standards for the analysis of asbestos in dust by Transmission Electron Microscopy.

Over a ten-year period, performed suspect asbestos-containing material inspections, developed abatement specifications, oversaw asbestos abatement activities, evaluated occupant and contractor exposures to asbestos and verified that abatement activities complied with local, state, and federal regulations for government clients, including, but not limited to, General Services Administration, Federal Corrections Institution, Health and Human Services-Indian Health

Services (HHS-IHS), National Institute of Standards and Technology (NIST), the University Center for Atmospheric Research (UCAR), as well as, parochial schools, industrial, commercial and residential clients.

Conducted industrial hygiene audits of a large metropolitan area waste water treatment facility, including laboratory health and safety evaluations.

Managed and conducted exposure assessments for various analytes, including respirable and inhalable coal dust, respirable and inhalable silica, welding fumes, nuisance dust and benzene in mining and industrial settings.

Performed targeted hearing conservation noise monitoring and evaluated heavy equipment operator exposures to hand, arm and whole body vibration in comparison to national and international standards in mining and industrial settings.

Conducted exposure assessments in an industrial setting for lead and metal fumes during fabrication of lead-lined steel-cased building components (lead sheet cutting activities and gas metal arc welding on steel) in comparison to Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELs) and the American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Values (TLVs).

Performed laboratory fume hood evaluations to assess the effectiveness of fume capture as related to fume hood user position, fume hood contents, and fume hood design for pharmaceutical companies, universities and industrial clients.

Collected personal air samples and performed employee exposure assessments for respirable crystalline silica, including quartz, cristobalite, and trydimite during glass furnace rebuilding operations at a bottling company.

Performed extensive gasoline vapor monitoring projects for benzene in neighborhoods with leaking underground storage tanks in support of exposure and health risk assessments.

Collected personal air samples and performed employee exposure evaluation of lead, cadmium and other metal fumes during acetylene torch cutting operations of recycled industrial metal components at a metal recycling facility and during the decommissioning of metal laboratory fume hood ductworks at a United States Geological Survey (USGS) Research Laboratory.

Conducted industrial hygiene regulatory compliance audits, including air monitoring for acetonitrile, ammonia, and nuisance dust, performed hearing conservation targeted noise monitoring, assessed efficacy of ventilation engineering controls, and evaluated work flow processes to evaluate toxic substance hazards present during the manufacture of dental prosthetics.

Performed various indoor environmental quality investigations (IEQ) in residential, commercial, industrial, and government office settings, including site investigation with general observations and occupant interviews. Utilized field measurements with direct-reading IEQ instruments to study the indoor environment, and evaluated standard IEQ parameters, such as ventilation rates, and the concentration levels of carbon monoxide, carbon dioxide, relative humidity, ultrafine particles, and volatile organic compounds (VOCs). Evaluated numerous buildings for microbial contaminants, including fungi, bacteria, and endotoxins.

Developed Polychlorinated Biphenyl (PCB) spill response requirements, including United States Environmental Protection Agency (USEPA) clean-up, disposal, and reporting requirements, and performed final clearance wipe sampling in accordance with USEPA clearance standards for industrial clients.

Performed lead exposure assessments during lead-based paint cutting, sawing, sanding, and abrading operations for general contractors during renovation activities.

Conducted technical and managerial supervision and review of industrial hygiene technical reports, including but not limited to material safety data sheets and other hazard communication products and technical summary reports of onsite consultant activities for commercial and industrial clients.

PAPERS AND PRESENTATIONS

Session Arranger, “Case Studies: EH&S Management Systems and Information Technology – Return on Investment: Dreams or Prolonged Nightmares?” American Industrial Hygiene Conference and Exhibition Round Table, Chicago, Illinois, May 2006.

“Multi-Family Housing: Environmental Considerations During Renovation Activities – Asbestos, Lead-Based Paint, and Water Intrusion and Microbial Growth,” Invited Speaker, National Lending Institution, Construction Design Group, Dallas, Texas, November 2005.

Contributing Author of Joint Task Force Paper of the American Society of Safety Engineers, American Industrial Hygiene Association, American Board of Industrial Hygiene, and Board of Certified Safety Professionals Joint, “Auditor Competency for Assessing Occupational Health & Safety Management Systems,” August 2005.

“Survey and Risk of the Presence and Use of Lead-based Paint Across Kazakhstan,” American Industrial Hygiene Conference and Exhibition: Invited Speaker, “Industrial and Community Lead Exposures in Kazakhstan and Neighboring Countries: Current Status, Programs and Industrial Hygiene Trends,” American Industrial Hygiene Conference and Exhibition Round Table 218, Atlanta, Georgia, May 2004.

“Bloodborne Pathogens Standard, Occupational Safety and Health Administration Requirements in the Prevention and Transmission Bloodborne Pathogens,” Kazakhstan Government and Private Consulting Enterprise in Support of Award-Winning Civilian Research and Development (CRDF) Funded Project, Kazakhstan, 1998.

Occupational Safety and Health Administration Hazardous Waste Operations and Emergency Response, Eight Hour Refresher Training, “Management Aspects: Communication, Teamwork, and Productivity,” Rocky Mountain Arsenal, Denver, Colorado, June 1996.

AFFILIATIONS AND CERTIFICATIONS

Certified Industrial Hygienist, Comprehensive Practice, American Board of Industrial Hygiene, Certification Number 8855, 2004

American Academy of Industrial Hygiene

American Industrial Hygiene Association, National

American Industrial Hygiene Association – Rocky Mountain Section

Member of the American Industrial Hygiene Association Management Committee

Member of the American Industrial Hygiene Association Computer Applications Committee

Member of the Colorado Mining Association