



**RONALD D. SCHAIBLE, P.E.**  
**Occupational Safety & Health Expert**  
**Human Factors Expert**

**PROFESSIONAL EXPERIENCE**

- 1999 to present **Robson Forensic, Inc.**  
*Manager of Safety & Human Factors/Forensic Engineer*  
Provide technical services to attorneys, insurance companies, manufacturers, distributors, scientific and service organizations in the areas of: product and process design and development; manufacturing practices; safety engineering; health exposures from chemical, biological, and physical agents; human factors; ergonomics; commercial claims; and industrial safety.
- 1999 to present **Fournier, Robson & Associates, LLC**  
*Principal, Consulting Engineer*  
Provide safety engineering analysis and design, risk evaluations and safety auditing, training and workshops, and environmental contaminant monitoring for industry.
- 1982 to 2004 **Schaible Associates**  
*Principal, Consultant*  
Sole proprietorship providing environmental and occupational health and safety services to industry. Conducted consulting services until 2004.
- 1989 to 1998 **AMP Incorporated**  
*Director, Global Health and Safety*  
Responsible for worldwide occupational health and safety policy, strategy, and services for a Fortune 500 company with more than 250 locations in 50 countries.
- Provided technical support on occupational health, safety, indoor environmental quality, ergonomics/human factors, and training issues.
  - Developed and deployed a global health and safety management system.
  - Managed the global chemical product stewardship program.
  - Developed an electronically deployable safety and health assessment (audit) tool.
  - Coordinated government agency compliance activities.
  - Developed a corporate ergonomics program and behavior based safety program.
- 1984 to 1989 **AMP Incorporated**  
*Manager, Environmental Training and Risk Assessment*
- Continued responsibility for the domestic chemical product stewardship program.
  - Conducted due diligence hydrogeologic surveys for property and leasehold transfers.
  - Developed and conducted environmental awareness training programs.
  - Developed comprehensive environmental policy, procedure, and audit protocols.
  - Conducted environmental and hazardous waste audits.

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1977 to **AMP Incorporated**

1984 *Corporate Safety Engineer*

- Investigated process hazards and reports of worker exposures to chemical and physical agents, and indoor environmental quality agents.
- Conducted safety engineering reviews with design staff.
- Developed, implemented and managed the corporate product stewardship program (Material Safety Data Sheets and product labeling) for chemicals.

1976 to **NL Industries, Metals Division**

1977 *Eastern Region Safety Director*

- Responsible for OSHA and EPA compliance activities for three secondary lead (Pb) smelters in Georgia, New Jersey and Pennsylvania.
- Investigated equipment guarding compliance
- Performed industrial hygiene sampling and provided oversight for occupational health monitoring.
- Evaluated industrial ventilation and air pollution control systems.
- Monitored disposal of waste acid, plastic and slag.

1975 to **The Cooper Group**

1976 *Supervisor, Safety & Security*

- Responsible for OSHA compliance in an 800 employee hand tool file manufacturing facility, including equipment guarding and industrial hygiene activities.
- Developed and conducted supervisory safety training programs.

1972 to **The Hartford Insurance Group**

1975 *Loss Prevention Representative*

- Conducted risk evaluation and risk improvement assessments of casualty, general liability, crime, fire and inland marine loss prevention programs, with emphasis on heavy industries.
- Provided regional industrial hygiene services to policyholders.

1971 to **Liberty Mutual Insurance Company**

1972 *Loss Prevention Representative*

- Conducted risk evaluation and risk improvement assessments of casualty, general liability, crime, fire and inland marine loss prevention programs.



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**TEACHING EXPERIENCE**

- 1997 to **St. Francis University**  
present *Adjunct Instructor, Graduate School of Human Resources and Industrial Relations*  
Graduate course in "Health and Safety."
- 1983 to **Millersville University**  
1996 *Adjunct Instructor in Occupational Safety & Hygiene Management.*  
Undergraduate courses "Fundamentals of Industrial Hygiene I" and "Fundamentals of Industrial Hygiene II."
- 1979 to **Harrisburg Area Community College**  
1982 *Adjunct Instructor in Industrial Hygiene*

**EDUCATION**

- M.S. Environmental Health, West Chester University, 1990  
B.S. Commerce & Engineering Sciences, Drexel University, 1971  
Numerous Continuing Education programs and Professional Development Conferences

**PROFESSIONAL REGISTRATIONS and CERTIFICATIONS**

- Registered Professional Safety Engineer (Massachusetts)  
Certified Industrial Hygienist in Comprehensive Practice  
Certified Safety Professional  
Certified Human Factors Professional  
Certified Hazardous Materials Manager  
Registered Environmental Professional  
Certified Hazard Control Manager  
Certified Product Safety Manager

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**PROFESSIONAL MEMBERSHIPS and AFFILIATIONS**

**Diplomate**, American Academy of Industrial Hygiene.

**Full/Regular Member**, American Industrial Hygiene Association; American Conference of Governmental Industrial Hygienists.

**Professional Member**, American Society of Safety Engineers, and Member of the Standards Development Council of ASSE (2002-2004).

**Member**, American Indoor Air Quality Council; Central Pennsylvania Chapter, ASSE; Academy of Certified Hazardous Materials Managers; Indoor Environmental Standards Organization; Society for Chemical Hazard Communication; Human Factors and Ergonomics Society; ANSI Safety and Health Standards Board (1997-1998); OSHA Task Force of the Labor Policy Association (1997-1998); Lancaster Industrial Safety Council.

**Representative** for ASSE on: ASTM F13.30 (old ANSI Z41) “Footwear” Committee (2001-2005); and Board of Directors for the Council for Accreditation in Occupational Hearing Conservation (CAOHC)(2004 – 2009).

**Alternate Representative** for ASSE on ASTM E50 Committee, “Environmental Assessment, Risk Management and Corrective Action” (2003-2005).

**Affiliate Member**, International Occupational Hygiene Association.

**Past Member**, Industrial Arts Advisory Council, Pennsylvania Department of Education.

**Chair**, Occupational Safety and Health Policy Subcommittee of the National Association of Manufacturers (1997-1999).

**Administrator**, International Division, American Society of Safety Engineers (1998-1999).

**Co-Founder/President** Central Pennsylvania Section, American Industrial Hygiene Association (1988-1989, and thereafter).

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**SELECTED INVITED PRESENTATIONS**

- “The Role of the Indoor Environmental Professional in Mold Remediation,” ASSE 2005 Professional Development Conference, New Orleans, LA June 13, 2005.
- “Conducting Bioaerosol Investigations,” Ohio State Bar Association, Continuing Legal Education Institute, Columbus, OH, December 6, 2002.
- “Agricultural Machinery Operator Safety,” National Institute for Farm Safety, Co-author/Co-presenter, Ocean City, MD. June 1999.
- Testimony on behalf of The National Association of Manufacturers regarding OSHA's Reinvention Efforts before the Workforce Protections Subcommittee of the Education and the Workforce Committee of the U.S. House of Representatives on July, 23 1997. Washington, DC.
- “Safety Management Essentials,” Tri-State Safety Council, Hagerstown, MD, April 11, 1996.
- “Industrial Hygiene Sampling Strategies,” Conestoga Foundryman's Society, Lancaster, PA. April 19, 1995.
- “Environmental Audits,” Government Institutes on October 21, 1988 and March 31, 1989.

**PUBLICATIONS**

- “The Role of the Indoor Environmental Professional in Mold Remediation,” *Proceedings of the 2005 ASSE Professional Development Conference*, New Orleans, LA, June 13, 2005.
- “The Growing Problem of Mold,” *Ohio Lawyers Weekly*: March 17, 2003.
- Masters' Thesis: *An Evaluation of the Effectiveness of Ventilation Controls in Selected Senior High School Industrial Arts/Technology Education Programs in Lancaster County, Pennsylvania.*
- Hygienic Guide: *1,1-Dichloroethane, 3rd Revision*, AIHA.
- Peer Reviewer: *CSP Refresher Guide*, ASSE, and *PA Industrial Arts Safety Guide*, Pennsylvania Department of Education.

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**OCCUPATIONAL SAFETY and HEALTH EXPERIENCE**

Over 28 years performing occupational safety and health investigations in industrial settings, including: ferrous and non-ferrous foundries and steel mills, chemical processing plants, construction and demolition, food processing plants, electroplating shops, metal working plants (forging, stamping, molding, grinding, cutting, punching, heat treating, quenching operations), municipal incinerators, electronic assembly, printing plants.

**Occupational health experience:**

- Sampling and exposure monitoring for toxic substances (including asbestos and lead), thermal stress, and ionizing/non-ionizing radiation.
- Indoor air quality, and biological contamination exposure assessments.
- Occupational noise surveys.
- Community noise surveys to evaluate impact of manufacturing operations.
- Ventilation system evaluation and testing.
- Engineering, and biological and medical monitoring interventions.

**Occupational safety experience:**

- Machine and equipment guarding (woodworking, metalworking, cold and hot forming of metals, welding and cutting, hand and portable power tools, robotics, lasers).
- Material handling methods (manual handling, and cranes, hoists, slings, ropes, chains), and ergonomic task evaluations.
- Material storage (flammable and combustible liquids).
- Electrical hazards.
- Confined spaces.
- Energy control (lockout/tagout).
- Chemical safety (handling, labeling, use, storage, disposal).
- Personal protective equipment (limitations, proper selection, and use).

**Chemical product safety experience:**

- Authored or reviewed in excess of 200 Material Safety Data Sheets and product labels in conformance with ANSI, OSHA, Canadian WHMIS, California Proposition 65, U.S. EPA TSCA and European Union requirements. Products included hydrocarbon-based lubricants, anti-fretting and anti-corrosion compounds, gel- and grease-based sealants, optical gels and couplants, cleaners, adhesives, electroplating, solutions, etc.
- Submitted an EPA Pre-Manufacture Notification for a new chemical.

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**HUMAN FACTORS and ERGONOMICS EXPERIENCE**

Over 28 years performing occupational safety and health investigations in industrial settings, including: ferrous and non-ferrous foundries and steel mills, chemical processing plants, construction and demolition, food processing plants, electroplating shops, metal working plants (forging, stamping, molding, grinding, cutting punching, heat treating, quenching operations), municipal incinerators, electronic assembly, printing plants.

**Workplace task design:** Task analyses and evaluations of duty exposure. Workplace layouts. Acceptable dimensions for visual work, clearances and adjustability of design. Force, posture and repetition of motion.

**Equipment design:** Displays and controls. Hand tool and product designs.

**Information transfer:** Comprehensibility, legibility (size, placement, color, contrast, use of validated pictographs or symbols) and readability (time, motion, attention) of labels, signs and warnings on products, Material Safety Data Sheets, and operating, maintenance and technical manuals.

**Environmental factors:** Noise, vibration, illumination, color, temperature and humidity, extremes.

**Anthropometry:** Physical characteristics for product design.

**Human capacity:** Work tasks, job demands and performance. Mental, physical, age and behavioral issues. Non-traditional work shifts.

**Other Experience:**

- Human Factors & Ergonomics Society, Technical Group memberships: Aging; Consumer Products; Environmental Design; Forensics Professional; Individual Differences in Performance; Industrial Ergonomics; Safety; Test and Evaluation; Training; Visual Performance.
- Developed “Introduction to Ergonomics” course at AMP Inc. and served as principal instructor. Designed for engineers and supervisors, it covered principles of ergonomic design; ergonomic task analysis; and use of anthropometric data for machines, hand tools, and manual materials handling.
- Developed “Advanced Human Factors Workshop” at AMP Inc. and served as principal instructor. Designed for engineers and supervisors, this 16-hour workshop explored human factors principles of task design and analysis, using computer analysis, case studies, and biofeedback devices.
- Developed and served as instructor for Ergonomic Task Team training program for factory workers and supervisors.
- GAO assessed AMP Inc. as one of only five “benchmark” companies serving as models for other companies aiming to improve their ergonomics programs. [*Worker Protection: Private Sector Ergonomics Programs Yield Positive Results*. (GAO/HEHE-97-163). U.S. Government Accounting Office, Washington, D.C. 27 August 1997].
- Deployed behavior based safety program.

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**OCCUPATIONAL SAFETY/HEALTH PROGRAMMING and TRAINING EXPERIENCE**

Over 28 years performing occupational safety and health investigations in industrial settings, including: ferrous and non-ferrous foundries and steel mills, chemical processing plants, construction and demolition, food processing plants, electroplating shops, metal working plants (forging, stamping, molding, grinding, cutting punching, heat treating, quenching operations), municipal incinerators, electronic assembly, printing plants.

**Safety and health standards and procedures:**

- Knowledgeable about Federal & State OSHA regulations and industry standards.
- Developed plant, division and corporate policies and procedures.
- Familiar with OSHA reports, recordkeeping and posting requirements.
- Knowledgeable about OSHA inspection, citation, and variance processes.

**Training programs conducted:**

- Machine guarding, energy control (lockout/tagout), confined spaces.
- Forklift safety, lifting and ergonomics.
- Hearing conservation and personal protective equipment.
- Fire extinguishers.
- Supervisory safety training and accident investigation, analysis and costs.
- Chemical safety, Hazard Communication and Right to Know.
- General safety and health hazard awareness.

**Safety and health audits:**

- Developed compliance audit and management system assessment protocols.
- Participated in numerous compliance assessments.
- Conducted numerous risk evaluation and risk improvement insurance audits.

**Academic teaching experience:**

- “Fundamentals of Industrial Hygiene I”(Millersville University, OSHM 222). The course presented concepts and skills in the recognition, evaluation and control of occupational health exposures in trades and occupations. Chemical and biological stresses were examined. Fundamentals of toxicology, environmental sampling strategies and techniques, and analytical methodologies were explored. Laboratory experiences with sampling and ventilation instrumentation provided familiarity with selected industrial hygiene equipment. Environmental control measures were studied with special emphasis on ventilation and personal protective equipment.
- “Fundamentals of Industrial Hygiene II” (Millersville University, OSHM 223). Continuation of OSHM 222. Physical and ergonomic stresses were examined. Principles of occupational and community noise, thermal stresses, ionizing and nonionizing radiation, and human factors were explored. Laboratory experiences with instrumentation provided “hands-on” familiarity with selected equipment and environmental control measures.
- “Health and Safety” (St. Francis University, HRIR 527 & 544). The courses emphasize the nature and extent of health and safety hazards posed by environmental conditions and employee behavior at work. The courses review pertinent legislation and applicable management responsibilities.