

LAWRENCE R. BIRKNER, CIH, CSP
McINTYRE, BIRKNER AND ASSOCIATES, INC.
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Industrial Hygienist with over two decades of field and management experience in the petroleum, chemical, manufacturing and construction industries. Extensive industrial hygiene and safety experience with asbestos, petroleum hydrocarbons, petro-chemicals, and hazardous waste operations.

EXPERIENCE, MAJOR PROJECTS, ACCOMPLISHMENTS

Management/Operational—Created and managed cutting-edge, team-focused programs and technical services in safety, industrial hygiene, product safety, and risk management. Managed staffs of up to nine safety, health and environmental professionals and budgets exceeding \$2 million with global EH&S responsibility. Provided direct guidance to company President/COO in developing and implementing an enhanced industrial hygiene and safety programs.

EH&S Auditing/Management Systems—Managed or participated in operational and compliance audits of: petroleum production, transportation, refining and retail marketing operations; chemical processing, environmental remediation, and underground coal mining. Managed major-risk operational audits. Developed EH&S audit procedures and protocols. Provided remedial recommendations. Reported to executive management and EH&S committee of the board of directors on audit findings and trends. Managed EH&S management systems design and ISO 14000 impact analysis. Led EH&S audits in Australia, France, Belgium and The Netherlands.

Construction EH&S/Environmental Remediation—Guided formulation of H&S strategy for offshore construction projects and environmental remediation (including Superfund sites) operations. Formulated and managed the asbestos abatement project strategy for a \$45 million high-rise renovation. Managed the EIS analysis for a \$200 million coal gas plant.

Process Safety/Incident Investigation—Led analysis of corporate-wide PSM systems and compliance costs. Guided root-cause investigations of major fires, explosions, operational upsets and fatalities in the US, the UK, and Indonesia. Trained operations personnel in incident investigation methods.

Regulatory Advocacy—Managed OSHA advocacy programs which effectively influenced high profile rulemakings including those on asbestos, benzene, hazard communications, permissible exposure limits, respiratory protection, methods of compliance, hazardous waste and emergency response, and process safety management. Former member, California OSHA Advisory Committee (1996-1998).

Research—Participated in occupational health research addressing asbestos, lead, organic dyes, and oil shale retorting exposures. Developed respirator sorbent for ethylene oxide, and sampling method for formaldehyde.

Global—Guided operational redesign projects to reduce EH&S exposures in The Netherlands and Spain. Conducted EH&S training in the UK, Indonesia and Taiwan. Consultant to government of Taiwan.

Business Analysis—Led successful industry projects to develop EH&S business and financial analytical tools for risk analysis, resource allocations and investment analysis. An application of one tool achieved a \$5.3 million saving in capital investment and improved project NPV by \$1.3 million. Guided analysis of workers' compensation data.



EMPLOYMENT HISTORY

- 1998 - Present** McIntyre Birkner and Associates, Inc., Thousand Oaks, CA, Vice President
- 1981 - 1997** ARCO, Los Angeles: Manager, EH&S Auditing; Manager, Safety and Industrial Hygiene (IH); Manager, Safety, IH and Product Safety; Manager, IH; and Senior Consultant
- 1977 - 1981** Celanese Corporation, New York City: Corporate Industrial Hygienist
- 1976 - 1977** American Can Company, Union, NJ: Safety and IH Engineer
- 1975 - 1976** Mount Sinai School of Medicine, Environmental Sciences Laboratory, NYC: S&H Research Specialist

EDUCATION, CERTIFICATIONS AND HONORS

- 1998** Elected one of ten most influential IHs in US (received same honor in 1993)
- 1997** MBA, Pepperdine University, Presidential/Key Executive Program
- 1994** Fellow, American Industrial Hygiene Association
- 1989** California Registered Environmental Assessor
- 1978** Certified Industrial Hygienist (Comprehensive Practice)
- 1976** Certified Safety Professional
- 1975** MA, Occupational Safety and Health, New York University
- 1974** NIOSH Fellowship for safety and industrial hygiene study
- 1973** BS, Science, Portland State University, Oregon

PROFESSIONAL AND TRADE ASSOCIATION (PARTIAL LISTING)

- 1994-1995** President, American Academy of Industrial Hygiene
- 1996-Present** Editorial Board, Occupational Hazards Magazine
- 1993-1994** President, Southern California AIHA
- 1988-1991** Board of Directors American Industrial Hygiene Association
- 1986-1991** Steering Committee, Organization Resources Counselors (ORC)
- 1986-1988** Editorial Board, American Industrial Hygiene Association Journal
- 1983-1984** Participant on CMA Benzene Panel
- 1987-1991** Board of Directors, International Society for Respiratory Protection
- Past Chair** ORC and API respirator task forces, API control strategy task force
- Member** Am. Soc. of Safety Engineers, Am. Chemical Society, British Occ. Hyg. Soc.

PRESENTATIONS

Lectures presented at the Conference Board, University of California Berkeley, Santa Barbara, and Los Angeles; New York University, University of Minnesota, Mount Sinai School of Medicine, Los Alamos National Laboratory, ARCO Executive Seminar, Defense Research Institute, and at numerous domestic and international professional and trade association meetings. Topics included: asbestos abatement, EH&S management, organizational learning, economic analysis of EH&S investments, engineering feasibility, respiratory protection, heat stress, accident investigations, criminal liability, management systems, EH&S auditing, state-of-the-art industrial hygiene issues, and emergency response.

PUBLICATIONS

Birkner, LR. and RK McIntyre. "Anticipating and Evaluating Trends Influencing Occupational Hygiene." Chapter in *The Occupational Environment—Its Evaluation and Control*, September 1997

Birkner, LR and RK McIntyre, "2020 Vision: The Future of the Occupational and Environmental Hygiene Profession." *AIHAJ* 58:370-374, 1997.

Birkner, LR and RK McIntyre. management columnist, *Occ. Hazards Magazine*. August, 1996-present

Rosenblum, GR. and LR. Birkner. *Environmental Emergency Response Procedures. Patty's Industrial Hygiene & Toxicology*. Fourth Revised Edition, 1991.

Birkner, LR Respiratory Protection-A Manual and Guideline. AIHA, May, 1980, editor 2nd edition 1991

Birkner, LR and LS.Saltzman,. Exposure Control Strategy Cost-Effectiveness Analysis. *AIHAJ*, Jan 1986

Birkner, LR An Industry Viewpoint on Respirator Research Needs. *AIHAJ*, December 1980.

Birkner, LR. Current Problems in Respiratory Protection, *Hazardous Materials Mgt. J.*, October 1980.