

JEROME E. SPEAR, CSP, CIH

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PROFESSIONAL EXPERIENCE

Jerome E. Spear, CSP, CIH, is President of J.E. Spear Consulting, LP and has over 19 years of experience helping organizations prevent injuries and illnesses, control losses, and achieve regulatory compliance. He held the positions of Technical Services Manager with XL Specialty Risk Consulting (a division of XL Specialty Insurance Company) and Corporate Industrial Hygiene Manager for Chicago Bridge and Iron Company, a worldwide steel fabricator and construction company. Spear is also an adjunct instructor for Texas A&M TEEX and guest lecturer at Texas A&M University, School of Rural Public Health.

AREAS OF EXPERTISE

Incident investigations and root cause analysis, injury and illness prevention, safety inspections and audits, loss control surveys, construction safety, industrial hygiene, confined spaces, hazard analysis and control, industrial accidents, employee/workplace safety, occupational health and safety, occupational injury, OSHA compliance, air sampling and testing, chemical exposure and control, indoor air quality, mold investigations, industrial safety, noise exposure surveys, welding fume exposure, safety program development, and safety management.

EDUCATION, CERTIFICATIONS, AND LICENSES

- MBA (Specialization in Management), Sam Houston State University
- B.S. in Industrial Engineering (Specialization in System Safety Engineering), Texas A&M University
- Certified Safety Professional, Construction Specialty (# 13421)
- Certified Industrial Hygienist, Comprehensive Practice (# 7690)
- Diplomate, American Academy of Industrial Hygienists
- Professional Safety Source and Field Safety Representative, Arkansas and Texas Workers' Compensation Commissions
- Licensed Mold Assessment Consultant, Texas Department of State Health Services (License # MAC0259)

WORK HISTORY

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| 4/04 to Present | J.E. Spear Consulting, LP
President |
| 1/99 to 4/04 | XL Specialty Risk Consulting
Senior Consultant, Associate, Technical Services Manager |
| 5/90 to 1/99 | Chicago Bridge & Iron Company, Inc.
Project Safety Engineer, Regional Safety Manager, Corporate Industrial Hygiene Manager |

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REPRESENTATIVE PROJECTS

- Conducted a fatality investigation involving an 11-year old boy falling through a pit and into a refuse truck at a solid waste transfer station located in California.
- Performed an on-site evaluation to assist with the investigation of a fatality due to a fall that occurred during the construction of a water tower in Minnesota. Provided litigation support related to the incident.
- Conducted an investigation and root cause analysis of a fall incident that resulted in multiple fractures during the construction of pressure vessels at a petroleum refinery in California.
- Performed loss control surveys involving multiple lines of insurance coverage (including general liability, products liability, auto liability, workers' compensation, and pollution liability) for a wide variety of clients, including service companies, steel mills, manufacturing facilities, mining operations, and construction sites.
- Performed safety audits and inspections, personal protective equipment (PPE) hazard assessments, and task hazard assessments at various facilities.
- Conducted incident investigation and root cause training for various organizations. The training included using structured analytical techniques to determine root causes. Topics included events and causal factors charting, change analysis, hazard-barrier-target analysis, cause-and-effect diagram, tree diagramming, behavior analysis, sources of evidences, and mapping/diagramming techniques.
- Prepared an expert witness report based on a review of depositions and documents related to a litigated case involving a crane accident at a multi-employer worksite.
- Investigated an incident that resulted in serious head injuries to an operator of a front-end loader working at a compost site for a municipality in Texas. Provided expert witness testimony related to the incident.
- Conducted an investigation and root cause analysis of an incident involving burn injuries to an employee performing maintenance and repairs on an existing tank at a petroleum refinery.
- Conducted an accident analysis study involving rear-end collisions to parked police cars for a municipality in Texas.
- Conducted 10-hour OSHA outreach training covering various topics including the Occupational Safety and Health Act, occupational health and environmental controls/hazard communication, cranes and derricks, material handling, motor vehicles and construction equipment, excavations and trenching, concrete and masonry construction, electrical, welding and cutting, demolition, scaffold safety, and fall protection.
- Authored various safety and health standards and programs for various firms and work sites. Topics included, but are not limited to, fall protection, permit-required confined spaces, respiratory protection, scaffolding safety, excavation and trenching safety, ladder safety, first aid, portable fire extinguishers, air-sampling methods, lift truck safety, elevated work platforms, electrical safety, hydrogen sulfide, benzene, cadmium, hexavalent chromium, industrial hygiene exposure assessments, heat stress, and return-to-work.

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PUBLICATIONS

Spear, J. Assessing and Controlling Hexavalent Chromium Exposure from Welding. Proceedings Paper (Session No. 555) for the American Society of Safety Engineers Conference and Exposition (San Antonio, Texas), June 2009.

Spear, J. Mobile Crane Safety, Part 2: The Importance of Lift Planning. *The Synergist*, February 2009.

Spear, J. Mobile Crane Safety, Part 1: Factors Affecting Rated Capacity. *The Synergist*, January 2009.

Spear, J. Bonding and Grounding: Controlling Static Electricity. *The Synergist*, September 2008.

Spear, J. 10 Success Factors for Effective Safety Committees. *The Synergist*, March 2008.

Spear, J. Keeping Safe in Hazardous Cold Weather. *Oil & Gas Product News*, January/February 2008.

Spear, J. Keep Safety In Mind from the Start. *Construction Executive*, June 2007.

Spear, J. Staying Safe in Hazardous Cold Weather. *Water Well Journal*, December 2007.

Spear, J. A Fleet Safety Culture is Critical to Loss Prevention. *IRTA Report*, 4th Quarter 2007.

Brewer S, King E, Amick B, George G, Spear J, Irvin E, Mahood Q, Lee L, Lewis C, Tetrick L, Gimeno D, Williams R. A Systematic Review of Injury/Illness Prevention and Loss Control Programs (IPC). Toronto: Institute for Work & Health, 2007.

Brewer S, King E, Amick B, George G, Spear J, Irvin E, Mahood Q, Lee L, Lewis C, Tetrick L, Gimeno D, Williams R. Scoping Review – Injury/Illness and Loss Control Programs, Toronto: Institute for Work & Health, 2007.

Brewer S, King E, Amick B, George G, Spear J, Irvin E, Mahood Q, Lee L, Lewis C, Tetrick L, Gimeno D, Williams R. Scoping Review – The Sustainability of Safety Culture/Climate in the Workplace, Toronto: Institute for Work & Health, 2006.

Spear, J. Industrial Hygiene: 5 Steps to Successful Exposure Assessments. *Industrial Safety & Hygiene News*, January 2006.

Spear, J. Improving Contractor Performance. *The Synergist*, September 2005.

Spear, J. Industrial Hygiene Exposure Assessments: Worst-Case Versus Random Sampling. *Professional Safety*, August 2005.

Health and Safety Requirements in Construction Contract Documents. AIHA Guideline 4 – 2005, Fairfax: AIHA, 2005. (Contributing Author)

Spear, J. Elements of a Fleet Safety Program. *The Synergist*, May 2005.

Spear, J. Confined Space Entry: A Review of Confined Space Standards Applicable to Contractors. *The Synergist*, March 2005.

Spear, J. Mobile Crane Lift Planning. *Tools of the Trade*, Winter 2004.

Spear, J. Welding Fumes: Protect Your Employees and Your Company. *Tools of the Trade*, Fall 2004.

Mahoney, D. and Spear, J. Mold Risk Assessment and Remediation. *Professional Safety*, August 2003.

Spear, J. Incident Investigations: A Problem-Solving Process. *Professional Safety*, April 2002.

Spear, J. Working Safely Near Overhead Power Lines. *The Synergist*, March 2002.

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PRESENTATIONS

“Mobile Crane Safety: Factors Affecting Rated Capacities.” ASSE Southwest Chapter Meeting (Irving, Texas). November 9, 2009.

“Cr(VI) Update: Considerations for Feasible Engineering Controls.” Steel Tank Institute/Steel Plate Fabricator’s Association Fall Conference (Houston, Texas). September 24, 2009.

“Assessing and Controlling Hexavalent Chromium Exposures from Welding.” American Society of Safety Engineers Professional Development Conference and Exposition (San Antonio, Texas). June 29, 2009.

“Hexavalent Chromium Exposures During Construction of LNG Tanks.” American Industrial Hygiene Conference and Exposition (Toronto, Ontario/Canada). June 2, 2009.

“Case Studies: Hexavalent Chromium and Respiratory Protection.” Steel Tank Institute/Steel Plate Fabricator’s Association Annual Meeting (Scottsdale, Arizona). January 28, 2008.

“Use of Local Exhaust Ventilation to Control Welding Fume Exposure.” American Industrial Hygiene Conference and Exposition (Philadelphia, Pennsylvania). June 5, 2007.

“Hexavalent Chromium.” National Safety Council Construction Division Meeting (San Diego, California). November 5, 2006.

“Puzzled About Welding Fume and Gas Exposure? Putting the Pieces Together.” ASSE Region III Professional Development Conference (Austin, Texas). August 7, 2006.

“Hexavalent Chromium and Welding.” Steel Tank Institute/Steel Plate Fabricator’s Association Pressure Vessel Conference (Houston, Texas). June 22, 2006.

“Health Standards’ Resurgence: Are You In Compliance?” National Safety Council Congress and Exposition (Orlando, Florida). September 21, 2005.

“Recognizing and Assessing Industrial Hygiene Exposures in Construction.” ASSE Region III Professional Development Conference (Galveston, Texas). August 10, 2005.

PROFESSIONAL AFFILIATIONS

- The International Honor Society of Beta Gamma Sigma
- American Industrial Hygiene Association of (AIHA)
- AIHA Construction Committee (2009/2010 Chair, 2008/2009 Vice Chair, 2008 Secretary)
- American Society of Safety Engineers (ASSE)
- National Safety Council (Construction Division Member)
- Texas Engineering Extension Service