



Curriculum Vitae

Colin J. Brigham, CIH, CSP, CPE, CPEA, CSPHP
Vice President
1Source Safety and Health, Inc.
140 South Village Avenue, Suite 130
Exton, PA 19341

EDUCATION

- M.S., Civil Engineering, Marquette University, 1986
- B.S., Environmental Studies, Springfield College, 1972

CERTIFICATIONS

- Certified Professional Ergonomist (CPE), 1995
- Certified Industrial Hygienist (CIH), 1990
- Certified Safety Professional (CSP), 1980
- Certified Professional Environmental Auditor (CPEA), 2000
- Certified Safe Patient Handling Professional (CSPHP), 2011

PROFESSIONAL ORGANIZATIONS

- American Industrial Hygiene Association (AIHA) since 1977. Fellow 2008
- Human Factors and Ergonomics Society (HF&ES)
- American Society of Safety Engineers (ASSE)
- Board Member of Council for Accreditation in Occupational Hearing Conservation (CAOHC), 1981-1986, Representative for the National Safety Council
- Member of AIHA Ergonomics Committee 1988-1991, 1994-1996, 2001-Current, Chair 2010
- Contributing Member of AIHA Noise Committee, 1980-1982
- National Safety Council (NSC) Power Press and Forging Section, 1975-1979; Newsletter Editor, 1978-1979; Member 1975-1982 and 2000-2012
- President- Philadelphia Section of AIHA, 1999-2000
- President – Association of Safe Patient Handling Professionals (ASPHP), 2012-2013, current Board Member

TECHNICAL SPECIALITIES

- Ergonomics (including Safe Patient Handling and Mobility)
- Workers' Compensation Cost Control
- Health and Safety Audits/OHSMS Review and Implementation
- Hearing Conservation (including Noise Control)
- Industrial Hygiene
- Machinery Safeguarding
- Health and Safety Program, Policy, and Procedure Development
- Contractor Safety

EMPLOYMENT HISTORY

Period	Employer	Last Position
1/00 – Current	1 Source Safety and Health, Inc.	VP, Safety Management and Ergonomics
2/94 – 12/99	ENSR/Galson Consulting	Director, Ergonomics and Safety Mgt.
9/93 - 1/94	BCM Engineers	Section Manager
5/82 - 4/93	EBI Companies	Loss Control Manager
5/73 – 4/82	Rexnord, Inc.	Corporate Industrial Hygienist

REPRESENTATIVE EXPERIENCE

Key Projects by Specialty

Ergonomics

Ergonomics (Including Safe Patient Transfer) with Hospitals and Nursing Homes

Mr. Brigham has helped develop, implement, and sustain programs at a number of healthcare facilities that have reduced the frequency and severity of injuries to healthcare workers and patients during patient transfer activities. He was President of the Association of Safe Patient Handling Professionals (ASPHP) for 2012-2013. His first seminar on patient transfer techniques was held in 1991 for all healthcare clients of the workers' compensation insurance company employer, a pioneering approach at that time. Mr. Brigham discussed exposures of concern and controls to reduce injuries and illnesses arising from them. Vendors were also invited to display their new devices, with hands-on use of their devices encouraged. He also developed and presented at a healthcare ergonomics seminar which was co-sponsored by his employer, the American Hospital Association (AHA), and the Pennsylvania Healthcare Association (PHCA). In 2002 and 2010 Mr. Brigham conducted full day professional development conferences at the American Industrial Hygiene Association (AIHA).

Ergonomics with a Worldwide Pharmaceuticals Manufacturer

Mr. Brigham has helped the subject firm to develop and implement a global ergonomics program. This included the development of an ergonomics section on their website, basic risk evaluation tools, brochures and other education materials, training and hazard prevention and control tools. Training was performed for ergonomics teams at several sites worldwide. Detailed facility-wide ergonomic assessments were also completed at several sites. These assessments included suggested controls.

Office Workstation Ergonomics, Confidential Chemical Manufacturer, NJ

Mr. Brigham helped develop an office workstation ergonomics assessment tool and database that was used to assess over 1,200 workstations in a several month period. The assessments were performed by analysts using tablets, eliminating the need to transfer data and reducing the potential for error. The database that was established allowed for the on-going tracking of ergonomic risk and the efforts to abate it.

Ergonomics with the Department of Defense, Norfolk, VA

Mr. Brigham was a project manager involved in the development of ergonomic risk assessment methodologies that were then applied by teams under his technical direction at 21 Air Force bases. In the completion of the base visits by a field staff of 8 individuals, over 2000 processes

and 5000 tasks were analyzed. Risk ranking was performed, quick fixes and control approaches were also provided to these bases. Some of the products from this project now appear on the Air Force Ergonomics Web Site.

Essential Job Function (EJF) Evaluations for a Large Defense Contractor, Confidential Client
Mr. Brigham performed a number of essential job function evaluations to help the subject contractor in the placement of individuals with disabilities. This helped to satisfy Americans with Disabilities Act (ADA) compliance concerns and reduce workers' compensation costs, in part by assuring effective return-to-work.

Ergonomics with a Self-Insured Pool of 80 School Districts
Mr. Brigham helped to develop a DVD entitled *Special Education Ergonomics: Saving Your Back* for this group of school districts, assisting in writing the script and obtaining footage at the school districts. He has also helped these districts address their other ergonomic needs.

Ergonomics with a Fortune 300 Manufacturing Company, Milwaukee, WI
As Corporate Industrial Hygienist for Rexnord, Inc., Colin developed a company-wide overexertion injury control program. It was implemented at production facilities resulting in significant frequency, severity, and cost reduction. Some of the components of the program were: quantitative physical demand evaluation, training for all of the parties involved (management, supervisors, employees, and design engineers), identifying and assisting with the implementation of engineering changes, monitoring, responding to overexertion injury occurrence, and developing written programs.

Workers' Compensation Cost Control

Providing the V.A.S.T. Difference, EBI Companies, Philadelphia Area, PA
As Loss Control Manager for an insurance company, achieved a 75 percent reduction in indemnity claim frequency over a five-year period for companies whose policies were written by the office. Also achieved a significant improvement in the workers' compensation experience modification for these companies. Played an active role in developing and managing effective return-to-work programs. Through the use of programs such as *The True Cost of Workplace Injuries and Illnesses* and he helped companies to save millions in workers' compensation costs.

Injury and Illness Frequency Reduction, Confidential Hospital, Allentown, PA
In providing program review, ergonomic evaluation, training, control recommendations and other support, helped this 750-bed hospital to reduce their lost workday incidence rate from 5.9 in 1993 to 3.5 in 1996.

Health and Safety Audits/OHSMS Review and Implementation

Healthcare System OHSMS Audit Tool Development and Support
Helped a healthcare system with 80 locations develop and apply an OHSMS self-audit tool. We hosted the tool during the completion of these self-audits. The tool included an empowerment guide with the following 4 resources for each program/exposure: a guidance document, a written program template, an action item register, and a self-audit checklist.

Annual Corporate-wide Audits, Rexnord Inc., Milwaukee, WI

As part of a corporate team with four members, Mr. Brigham had the responsibility for conducting annual health and safety audits at the 52 manufacturing plants of a Fortune 300 company. These were performed during a 9-year period at 52 manufacturing plants in 14 states and Canada.

OSHA Voluntary Protection Program (VPP) Gap Analyses, Numerous

These analyses were performed for a group of hospitals, a Fortune 300 Aerospace Manufacturer, two locations of a Fortune 300 Printing Company, and a large Lighting Products Manufacturing company, helping to benchmark their performance and processes against the VPP participation guidelines. They resulted in service provision to address the gaps that were found, helping the clients to qualify for participation.

Health & Safety Audits – RR Donnelley and Sons Company

Mr. Brigham was involved in the design and conducting of detailed safety, health, and environmental audits. The process began with a comprehensive review of historical performance data, policies and procedures, and management structure review. Systems for tracking follow-up were provided. A total of 8 facilities were audited in 1998, a similar number in 1999.

OSHA Injury and Illness Reporting & Recordkeeping, Confidential Client

Audits of these practices were made at three locations for this client, seeking to determine if practices were proper and the process operating effectively. This client received major DOD criticism and sanction for failing to have an effective process. The audits identified deficiencies and suggested methods of improvement.

Audit of Safety and Health Management Program, Confidential Hospital Client, Michigan.

Designed and conducted a detailed assessment regarding the effectiveness of the safety and health management program as it existed. Review of historical performance data, policies and procedures, and management structure were the first step. Interviews were conducted with 15 managers who had responsibility for a portion of the programs. A detailed cost study was done that considered workers' compensation costs, claims management, medical treatment, near-misses, training, program development, and JCAHO audit preparation. A comprehensive report was developed which detailed the findings, provided a management action plan, and a prioritized list of actions which will increase the effectiveness of the safety and health management program while decreasing operational costs. The estimated annual pay back is \$350,000 to \$400,000.

Hearing Conservation (Including Noise Control)

Hearing Conservation Program Administration, Rexnord, Inc, Milwaukee, WI

As Corporate Industrial Hygienist, helped develop all aspects of this Fortune 300 company's hearing conservation program including: noise surveying, identifying and directing audiometric testing needs, hearing protection, training, and noise control. This included involvement in OSHA citations, worker's compensation claims, and mitigation design. Detailed design was performed, from identification of noise sources through specification of treatment methodologies, selecting desired materials and approaches, specifying performance criteria, obtaining proposals, and following through to completion.

Industrial Hygiene

North American Manufacturer of Roofing Materials

Manage the provision of industrial hygiene sampling for chemical exposures and noise at up to 18 plants per year around the United States. These services have been provided over a several year period.

Petroleum Products Refineries and Terminals

Manage the provision of industrial hygiene sampling for chemical exposures, noise, and ergonomics at up to 12 sites per year. These services have been provided over a several year period.

Regional Industrial Hygienist for a Workers' Compensation Insurance Carrier

Served in this capacity for an 11-year period, performing industrial hygiene sampling, addressing prevention and control activities, and performed training. These services were provided to a wide range of industries including chemical, healthcare, public sector, and others.

Corporate Industrial Hygienist for a Fortune 300 Firm

Served in this capacity for over a 4-year period. This involved providing services to 52 manufacturing plants in North America and overseas. The services included chemical, noise, and ergonomic exposure evaluation and control. The facilities included chemical manufacturing, metal stamping, foundries and many other types. Written programs were developed, implemented, and sustained.

Machinery Safeguarding

Worldwide Medical Device Manufacturer

Colin performed 4-hour training for safety and health staff from around the world for this firm regarding the ANSI B11.0/B11.19/B11 TR3 Risk Assessment and Machinery Safeguarding Standards Package. This training included hands-on use of the risk assessment tool. There were representatives from over a dozen locations in attendance.

Fortune 300 Printing Firm, Multiple Locations

Served as one of two outside consultants on a corporate safeguarding team, with each individual becoming team leaders in performing assessments at company locations. Mr. Brigham lead over 6 assessments, ranging from 3-5 days each onsite. The assessments included all machinery, required referencing of specific standards, and providing of basic control recommendations. They resulted in the reduction of amputations by 50% in the first year.

Machinery Safeguarding, Rexnord, Inc, Milwaukee, WI

While on the corporate staff for over 3 years, led the efforts to help all facilities to develop and implement a program to keep hands out of the point of operation whenever the equipment was energized. This involved meetings at sites, membership on the National Safety Council Power Press and Forging Executive Committee, performing assessments, providing control approaches, and tracking hazard abatement.

Health and Safety Program, Procedure, and Policy Development

Pharmaceutical Industry Health and Safety, SmithKline Beecham, Philadelphia, PA Served as

the project manager assisting a major pharmaceutical company in the development of their Occupational Hygiene Manual for worldwide use. This involved review of national and international standards and guidelines to develop a universally applicable product. Mr. Brigham also served as a team member in the development of training manuals for hearing conservation and hazardous energy control.

Carpal Tunnel Syndrome within a Variety of Industries

Helped a flag manufacturing company, clothing manufacturer, chemical product packaging company, laundries, research laboratories, and others to control, anticipate, recognize, and evaluate this exposure. The assistance included the use of "Five Fingers, Five Facets" and other tools to assist in data analysis, workplace and work practice review, training, selecting and implementing exercise programs, and suggesting engineering controls. Symptoms surveys and employee questionnaires and discussions were used for information gathering. Workers' compensation costs were reduced.

Fall Protection Code Standards Review and Checklist

Performed an analysis of the ANSI/ASSE Z359-2007 Fall Protection Code and related OSHA standards for a worldwide petrochemical company, developing a document that they could provide to their EHS staff. This document included a synopsis of these standards and a checklist that they could use as a self-audit tool that would enable them to benchmark against the major requirements of these standards.

Infection Control within the Healthcare Industry

As Loss Control Manager, before and after the issuance of OSHA's Bloodborne Pathogens Standard, provided assistance to hospitals and nursing homes to identify the steps necessary to prevent illness due to this exposure. Work included: the development of confidentiality standards and protocol to satisfy OSHA concerns regarding confidentiality, the identification of work practice and design changes to reduce significant exposures, assistance in developing written programs, and monitoring and responding to incidents.

Contractor Safety

Construction Safety and Health Management

Provided and managed 1-3 people for construction safety and health support, being primarily industrial hygiene, for a refinery project involving over 1000 contractors during a 15-month period. This site achieved over 1 million hours worked without a day away injury or illness.

Workers' Compensation Insured Contractor Loss Control

As Loss Control Manager at EBI Companies, worked with their insured contractors to prevent workplace injuries and illnesses. This included program evaluation and development, job site visits/reviews, toolbox training sessions, program training, and accident investigations.

Contractor Safety Program Evaluations at 13 Locations

Performed contractor safety program evaluations, as part of overall health and safety audits, at 13 locations of a Fortune 200 manufacturing firm. This included observation of practices, interviews with workers, and review of written programs.

Pharmaceutical Company Contractor Safety

Assisted in developing the written contractor safety program. Managed the conducting of contractor safety training and monitored their activities during the construction of this facility. Interacted with the Safety Director and contractor representatives.

10 and 30-Hour Construction Safety and Health Training

Provided both the 10 and 30-hour training to clients, including mixes of individuals at all knowledge and experience levels. Was an OSHA Outreach Trainer for Construction.

Job Hazard Analysis

Rexnord, Inc., Milwaukee, WI (previously a Fortune 300 manufacturing firm)

While Group Safety Director, assisted several locations in developing and implementing programs for Job Safety Analysis/ Job Hazard Analysis.

Aerospace Client, Pennsylvania

Performed Job Hazard Analysis (JHA) training for this client's staff responsible for conducting these analyses, reviewed their draft JHAs, and helped in developing final products. Some of these JHA were eventually folded into their existing Job Instruction Training, reducing the need to reference multiple forms when performing training or review.

Foamex International, Linwood, PA

Helped this client to develop a Preoperational Process Review training program for their project managers from around the United States. This training included several company-specific exercises to improve attendee learning.

Correctional Facilities, Pennsylvania

Performed Job Hazard Analyses (JHAs) for this client for all of the jobs normally performed by their inmates in meeting the needs of the correction facility. This included clothing and footwear manufacturing, food services, and other activities.

Expert Witness – Deposition and/or Testimony Experience

Patient Transfer Systems, Inc. v. Patient Handling Systems, Inc.

Patent Law Case Regarding an Ergonomic Device

U.S. District Court for the Eastern District of Pennsylvania

Civil Action No. 97-C-1568

Deposition: November 1999

Testimony at Trial: January 23, 2001

Role: Colin was brought in as an expert witness to give a deposition and testimony at trial regarding the ergonomic evaluation of air transfer mattresses, reports of evaluations of said equipment signed by him, presentations on these devices, and knowledge regarding changes in these devices.

Donna Johnson et ux. v. Hafner & Son

Airborne Chemical Exposure Liability Case

Testimony at Trial: September 23, 2009

The Court of Common Pleas of Luzerne County, Wilkes-Barre, PA, No. 5934-2005

Role: Colin served as the industrial hygiene expert for the defendant. The defendant was a

subcontractor performing work inside a Sealy, Inc. manufacturing facility during operational hours. The claimant was a Sealey, Inc. employee alleging serious and permanent health effects arising from the activities of the defendant. It was a jury trial.

**City of Philadelphia – Fire Department
Occupational Noise/Workers’ Compensation
Francis Hanson and Thomas Jackson, et al. v. City of Philadelphia
Noise Surveys followed by a Deposition: October 29, 2004**

Role: Colin had performed extensive noise surveys of the Philadelphia Fire Department fire fighters in March 2003. This surveying involved full shift sampling where he rode with the fire fighters and medics during their calls, ate with them, and slept in their firehouses. The deposition was in response to claims that the fire fighters sustained occupational hearing loss as a result of their duties.

**Brandon Crocker et al. v. National Starch Chemical Company
Workers’ Compensation Occupational Disease Case
Documents Review and Report, Attended Trial March 20-21, 2011**

Role: This case involved hand painting that was being performed on doors and other surfaces adjacent to the office area of a manufacturing plant. The plaintiff alleged that the exposures caused reproductive effects during her pregnancy that led to fetal abnormalities. Colin was retained by the defendant.

Expert Witness – Other Legal Experience

**Rexnord Inc. v. U.S. Department of Labor/OSHA
OSHA Contest of Citation, Inspection #010678548
Open: 5/23/1977
Close: 1/12/1984**

Role: Colin served as the lead company individual in contesting of this OSHA citation. He managed the response to the citation including the retention of a noise control expert witness, coordination between internal staff, outside counsel, and inside counsel. OSHA was requiring total noise enclosure of approximately 17 large mechanical power presses while Rexnord Inc. wanted to pursue, and was actively pursuing, other methods to reduce employee noise exposures. The case was settled with one enclosure tried, no additional ones installed.

**The Dial Corporation
Hearing Loss Case
Dates: Between 1994-1995**

Role: Colin was brought in as an expert witness regarding hearing conservation and noise control. He evaluated the adequacy of a hearing conservation program at the subject company, reviewing noise surveys, audiometric testing results, hearing protection provision, and other factors to render an opinion. (Due to a fire at the 1Source place of employment in May 2000, additional detail regarding this case is not currently available).

**USDOL – OSHA v. Hanover Foods Corporation
OSHA Compliance/Hazard Abatement Verification
Dates: August – September 1997**

Role: The subject firm had OSHA inspections at one of its facilities that resulted in initial penalties of approximately \$350,000. Colin was brought in to perform hazard abatement verification and an OSHA gap analysis to assist both in compliance and safety and health performance improvement.

Birch v. The Pepsi Bottling Company
Americans with Disabilities Act (ADA) Title I
Deposition: Scheduled for November 2002

Role: Colin was brought in to serve as an expert witness identifying whether the functions not currently able to be performed by the plaintiff are essential functions and whether accommodation would be reasonable. The effort began with a tour of the defendant's facilities, review of job descriptions and other documents, and discussions. The defendant's expert report was reviewed and critiqued.

EP Henry Corporation
Community Noise Level
Planning Board Meetings: June 12 and 24, 2003

Role: Colin was retained to serve as a noise expert in determining the community noise impact for a planned manufacturing site in New Jersey for the subject company. Measurements were made at a similar existing facility in Pennsylvania, modeling done to project noise levels at the New Jersey location, and recommendations made to assure that the noise levels at the new facility would meet the applicable codes. Testimony was given at two hearings. The Planning Board approved moving forward the proposed construction.

Tropicana Resort and Casino Noise Survey
Community Noise Level
Noise Surveys to Assist in Cessation of Strike Disturbances: October 2004

Role: 1Source Safety and Health, Inc. was retained, with Colin as the project manager and noise expert, to assist in determining if activities performed by employees striking against the subject employer were resulting in noise levels that violated community noise standards.

Stuart Plante v. Herr Industrial, et al.
Accident Investigation/OSHA Compliance/Workers' Compensation
Document Review and Report Provision: 2005 – Current

Role: The plaintiff was a contractor who sustained injuries felt to be as the result of a fall at one of the defendants work sites. Another of the defendants was involved in work site modifications that were felt to contribute to the injury occurrence. Colin was retained by the plaintiff's attorney to review the facts of the case to determine if there were violations of OSHA or other standards or negligence on the part of other parties leading to the injury occurrence.

Adam Helsley and Laura June Growden v. Jefferson Asphalt Products Company
Shiftwork/Drug and Alcohol Policies/CDL Requirements
Document Review and Preparation for Deposition: October 2007

Role: The plaintiffs were alleging that the defendant required one of their employees to work excessive hours and did not have the required drug and alcohol abuse prevention program, thereby leading to an automobile accident that killed the employee, the driver of another car, and severely injured an occupant of the car. Colin was retained by the defendant's attorney to review the facts of the case to determine if the defendant was in violation of DOT or other standards or otherwise negligent.

Maria Fortuna v. Corning, Inc., et al. v. Thermo Fisher Scientific
Accident Investigation/Equipment Defect Liability Case
Document Review and Presentation before Joint Lawyers and Experts: 2007-2009

Role: As the provider of safety and health services for the School Districts Insurance Consortium (SDIC), a workers' compensation pool for 80 school districts, Colin was brought in to determine accident

causation and correction for a case where a teacher sustained electrical shock and head injury as a result of using a hotplate. A \$2 million product liability award was made.

Francis Gross et ux. v. Wessner Trucking et al.

Explosion at an Industrial Site (Granary)

Document Review and Report

The Court of Common Pleas of Bucks County, No. 06-2102

Role: The plaintiffs brought suit against the defendants for injuries from a June 2005 gas explosion at Albright's Mill. The mill used the services of Wessner Trucking to deliver grain. Colin served as a safety and industrial hygiene expert for the defendant.

ING Furman Selz Investors III LP Matrix Metals LLC Claims

Company Sale with OSHA Liabilities and Related Claims

Facility Visits, Documents Review, and Report in 2009-2010

Role: The sellers retained Colin to evaluate the cost of OSHA-related and TCEQ activities required to conditions present during the period of sale.

Marcelino Ruiz et al. v. Nissin Foods (U.S.A.) Company, Inc.

Fall from Elevation

Facility Visit, Documents Review, and Report in 2010-2011

Role: The plaintiff's attorney retained Colin to review the facts regarding the case involving a 12 foot fall from a work platform to a lower level. The plaintiff fell onto a forklift on the lower level and then the floor below it.

Albert I. Lancellotti v. Massimino Properties, LLC

Crushing Injury from Falling Drywall

Facility Visit, Documents Review, and Report in 2011

Role: The defendant's attorney retained Colin to review the facts regarding the case involving the stacking of drywall and an injury occurring to the plaintiff when the drywall fell.

Jeffrey Sims v. Fluidics, Inc.

Occupational Hearing Loss

Facility Visit, Documents Review, and Report

Role: The defendant's attorney retained Colin to review the facts regarding the case involving hearing loss that was alleged to arise from occupational exposure.

USDOL – OSHA v. Extencare Health Services, Inc.

Safe Patient Handling and Mobility

Documents Review in 2013

Role: The defendant's attorney retained Colin to review the facts regarding the case and serve as a potential testifying expert.

Presentations and Publications

Brigham, Colin J., "Safe Patient Handling and Mobility (SPHM): Protecting Care Providers, Recipients, Family & Friends," Pennsylvania 2014 Governor's Occupational Safety & Health Conference, Hershey, PA, October 27, 2014

Brigham, Colin J., Barbara Braun, Jaime Dawson, and Bob Williamson, "SPHM Legislation and

Regulatory Enforcement Update,” 14th Annual Safe Patient Handling and Mobility Conference, Orlando, FL, March 27, 2014

Brigham, Colin J. (Principal Author and Facilitator), “*Quick Tips on Safe Patient Handling and Mobility*,” AIHA/OSHA Alliance, March 26, 2014

American Nurses Association, “**Safe Patient Handling and Mobility: Interprofessional National Standards**,” Silver Spring, MD, Nursebook.org, June 2013

Brigham, Colin J. and Suzy Harrington “Navigating the New Safe Patient Handling and Mobility Interprofessional National Standards,” A Webinar hosted by the American Nurses Association (ANA), June 19, 2013

Brigham, Colin J. “Safe Patient Handling: A Value Strategy® Case Study”, ASPHP Regional Networking Event, Wilmington, DE, June 3, 2013

Brigham, Colin J., Michael Fray, Tamara James, Neil Wiggerman, and Kent Wilson “Future of Patient Handling: Stepping Outside the Box to Address the Epidemic Issue”, HFES 2013 International Symposium on Human Factors and Ergonomics in Health Care, Baltimore, MD, March 11-13, 2013

Brigham, Colin J. “Safe Patient Handling: A Value Strategy® Case Study”, Philadelphia Section American Industrial Hygiene Association Half-Day Ergonomics Forum PDC, November 13, 2012

Brigham, Colin J. “Existing and Emerging Safe Patient Handling Standards: Changing the Environment of Care”, Association of Safe Patient Handling Professionals (ASPHP) Webinar, November 14, 2012

Brigham, Colin J., Kent Wilson, and Catherine Gouvin “Implementing and Sustaining a Safe Patient Handling Program,” Association of Occupational Health Professional in Healthcare (AOHP) Conference, Las Vegas, NV, October 2, 2012

Brigham, Colin J. “A Bill of Rights (and Responsibilities!) for Workplace Safety and Health,” Risk Management Roundtable on Workers’ Compensation Law and Best Practice Safety Programs, Willis, Radnor, Pennsylvania, March 8, 2012

Brigham, Colin J., Marjorie Werrell and George Gruetzmacher “The Ergonomics Reference Document: Its Development and Application,” NASA Webinar, March 7, 2012

Brigham, Colin J. (Principal Author and Facilitator), “*Ergonomics Reference Document*,” Developed by the Ergonomics Committee of the American Industrial Hygiene Association (AIHA) and approved by the Board on November 6, 2011

Brigham, Colin J., “Preventing Catastrophic Losses: Eliminating Gaps in your Lockout/Tagout Program,” Electric Expo 2011, King of Prussia, Pennsylvania, October 13, 2011

Brigham, Colin J., “Safe Patient Handling Regulatory Update,” AOHP Conference, Boston, Massachusetts, September 17, 2010

Brigham, Colin J. et al., “Roundtable (RT) 218- Health Care Ergonomics: Safe Patient and Resident Handling,” American Industrial Hygiene Conference and Exposition, Denver, Colorado, May 25, 2010

Brigham, Colin J. et al., "Professional Development Conference (PDC) 414 - Healthcare Ergonomics: Safe Patient Handling," American Industrial Hygiene Conference and Exposition, Denver, Colorado, May 23, 2010

Brigham, Colin J., "*Safe Handling of Residents in Home Health Care*," **Ergonomics in Design**, Winter 2010, Volume 18, Number 1

Brigham, Colin J. and Raymond Boucher, "A Practitioner's Viewpoint: Helping Employers with Ergonomic Tool Selection and Use." American Industrial Hygiene and Conference and Exposition, Toronto, Canada, June 2, 2009

Brigham, Colin J., "Standards Requiring the Integration of Ergonomics into Workplace Design." American Industrial Hygiene and Conference and Exposition, Toronto, Canada, June 4, 2009

Brigham, Colin J., "*HELP: (Hazard Elimination Limits Problems) in Confined Spaces*." **Workplace HR & Safety**, Vol. 9, No. 5, September 2007

Brigham, Colin J., "Special Education Ergonomics – Addressing the Needs Within 80 School Districts." American Industrial Hygiene Conference and Exposition, Philadelphia, PA, June 2-7, 2007

Brigham, Colin J., "*Integrating Ergonomics into the Design of Work Systems & Environments*." **The Monitor**, American Society of Safety Engineers, Vol. 6, No. 3, 2007

Brigham, Colin J., "Understanding Ergonomics: Creating Positive EMOTIONS." Pennsylvania Chamber of Business and Industry "Ask OSHA" Roundtable, Grantville, Pennsylvania, March 22, 2007

Brigham, Colin J., "Integrating Health and Safety Into Project Management," 12th Annual General Philadelphia Area Plant Engineering and Facilities Management Show and Conference, November 14, 2004

Brigham, Colin J., "Ergonomics: A Science that Saves," 2004 Governor's Occupational Safety and Health Conference, Hershey, Pennsylvania, October 18-19, 2004

Brigham, Colin J., "Improving Patient Transfer (Through Effective Ergonomics) Improves Patient Safety," American Industrial Hygiene Conference and Exposition, Dallas, Texas, May 10-15, 2003

Brigham, Colin J., "Healthcare Ergonomics: Including the Kitchen Sink," PDC 419, American Industrial Hygiene Conference and Exposition, San Diego, California, June 3, 2002.

Brigham, Colin J., "*Workers' Compensation Cost Reduction Through Effective Medical Management: An Ergonomist's Perspective*," **Proceedings from the AIHCE Symposium: From Concept to Practice – Making Ergonomics Work**, New Orleans, Louisiana, June 2001.

Brigham, Colin J., "Ergonomic Equipment Needs for a Multi-Facility Healthcare System," American Industrial Hygiene Conference and Exposition, Orlando, Florida, May 2000.

Brigham, Colin J., "*Ergonomics: A Science That Can Save*," **Compliance Magazine**, April 1999, HIS Publishing Group, Libertyville, IL, 60048

Brigham, Colin J., "*Healthcare Ergonomics: Three Case Studies in Economic Health*," **Applied Ergonomics Case Studies, Volume 2**, Institute of Industrial Engineers, Norcross, GA, 1999, ISBN: 0-89806-214-4.

Brigham, Colin J., "*Confined Space Entry: Hazard Identification, Evaluation, and Elimination*," **Compliance Magazine**, October 1998, IHS Publishing Group, Libertyville, IL, 60048

Brigham, Colin J., "Reduction of Physical Demand and Health Care Worker Injury in Patient Transfer," American Industrial Hygiene Conference and Exposition, Atlanta, Georgia, May 1998

Brigham, Colin J., "Workers' Compensation Cost Control: Examples of Effective Ergonomics Programs," Lehigh Valley American Industrial Hygiene Association Professional Development Course, April 16, 1997 and 17th Annual Northeastern Regional Industrial Hygiene Conference, December 12, 1997

P. Legendre, D. Goddard, E. Bishop, and C. Brigham, "Implementation of a Comprehensive Ergonomics Program for Industrial Workplaces at the United States Air Force Air Combat Command (ACC)," American Industrial Hygiene Conference and Exhibition, Dallas, Texas, May 1997.

Brigham, Colin J., "*What Makes Ergonomics Programs Effective and Why Would A Manufacturing Plant Need One?*" **The Business Journal of Central New York**, December 25, 1995.

Brigham, Colin J. and Emma P. Hooks, "Proactive Ergonomics = Profitable Economics: A Healthcare Formula For Success." Proceedings from the 1995 American Society for Hospital Engineering of the American Hospital Association Annual Conference, June 1995.

Brigham, Colin J., Kathleen M. Kehan, and Dr. David Spratt, "Ergonomics and Workers' Compensation Cost Control." One-day Seminars Held On May 3, 10 and 17, 1995 in Harrisburg, Valley Forge, and Pittsburgh, Pennsylvania, Respectively. Sponsored by the Pennsylvania Chamber of Business and Industry Educational Foundation.

Brigham, Colin J. et. al., "Healthcare Ergonomics: Establishing Proactive Programs for OSHA Compliance & Workers Compensation Cost Control." A one-day seminar held on August 30, 1994 in King of Prussia, Pennsylvania. Co-sponsored by the American Hospital Association, the Pennsylvania Health Care Association, and Galson Corporation.

Brigham, Colin J., "*Five-Step Plan Helps Reduce the Risks of Patient Transfer Injuries*." **Health Facilities Management**, May 1994, Vol. 7, No. 5 pp. 54-58.

Brigham, Colin J., 1994. "*Surviving an OSHA Inspection: A Proactive Approach for OSHA Compliance in Hospitals*." Proceedings from the American Hospital Association's Fourth National Symposium on Health Care and the Environment, February 1994.

Brigham, Colin J., "An Ergonomic Evaluation of Patient Transfer Techniques - Bed to Stretcher," American Industrial Hygiene Conference, Salt Lake City, Utah, May 1991.

Brigham, Colin J., "Workers Compensation for Hearing Loss," American Occupational Health Conference, Kansas City, Missouri, April 1985.

Brigham, Colin J., "The Role of Biomechanical Job Evaluation in the Reduction of Overexertion Injuries: A Case Study," American Industrial Hygiene Conference, Philadelphia, Pennsylvania, May 1983.

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