

2009 Machine Safety Conference



June 2-3, 2009

Centre for Health & Safety Innovation

5110 Creekbank Road, Mississauga

REGISTER BY MAY 15 AND SAVE \$100!

BONUS!

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CAN/CSA Z1000 STANDARD

Occupational Health &
Safety Management

A \$90 VALUE!

You'd be hard pressed to name a business sector exempt from machine and equipment related safety hazards: from manufacturing and construction, to restaurants, farms and many more. Businesses rely on machinery and equipment, both large and small, on a daily basis.

The range of hazards they present, however, are daunting: contact with moving parts, electrical hazards, occupational noise and ergonomic issues are just a sampling. The good news is an effective machine safety program can:

- Control these hazards before they turn into injuries
- Ensure you are in compliance with your legislative requirements
- Maintain profitability by protecting against the impact of costly lost time injuries

CSA and IAPA's 2009 Machine Safety Conference provides you with working knowledge of standards, regulations and generally accepted principles associated with a machine safety program. Share in case studies and best practices with organizations that have implemented programs designed to reduce the risk of worker injury. Learn how effective training and safety procedures can help you demonstrate due diligence and minimize the likelihood of injuries and fatalities.

WHO SHOULD ATTEND

Professionals in all sectors where machinery or equipment is used including:

Occupational Health & Safety Professionals, JHSC Members, Plant & Production Managers & Supervisors, Plant Maintenance Managers & Supervisors, Machinery Maintenance & Installation Personnel, Machine Operators.

FOR FULL PROGRAM INFORMATION OR TO REGISTER



CALL: 1-800-463-6727



EMAIL: seminars@csa.ca

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OPENING KEYNOTE — JUNE 2: Amber Hiuser

Amber Hiuser is a young injured worker. She was injured on the job on the grave yard shift of a manufacturing company. With high-energy and fast pace, hear Amber recount her traumatic experience.



LUNCHEON KEYNOTE — JUNE 2: Dennis Hull

Dennis Hull is a fourteen-year veteran of the National Hockey League. He played in over 1,000 games and was selected to the All-Star Game six times. Dennis brings to the speaker's podium a wealth of anecdotes and stories from his many experiences. He has quickly become one of the most sought-after head table guests in the business.



AGENDA AT-A-GLANCE

DAY ONE – JUNE 2ND

8:00 - 8:30	REGISTRATION/BREAKFAST		
8:30 - 9:00	OPENING KEYNOTE PRESENTATION: Amber Hiuser, <i>Injured Worker</i>		
9:00 - 10:00	Interlock Devices: Experiment and Learn Mike Wilson – IAPA	Pre-Start Health & Safety Reviews – Understanding Section 7 Franco Tomei – P.Eng	The Business Case for Health & Safety Tom Doyle – <i>Industrial Safety Integration</i>
10:00 - 10:15	BREAK		
10:15 - 12:00	Low Cost Ergonomic Interventions – Case Study Karen Hoodless – <i>Taylor'd Ergonomics Inc.</i>	PANEL DISCUSSION: Legislation v Standards – Navigating the Differences Elizabeth Rankin – CSA; Tom Eastwood – IAPA TBA – Ministry of Labour	
12:00 - 1:00	LUNCHEON		
1:00 - 1:45	LUNCHEON KEYNOTE: Humour & Hockey Dennis Hull – <i>Dennis will share a wealth of anecdotes and stories from his many experiences throughout his prolific career.</i>		
1:45 - 2:45	Upcoming Changes in the New Z142 Power Press Standard Corey Newton – <i>Tekpress Solutions Ltd.</i>	Honda Case Study: Safety By Design Dave Smith – <i>Honda Canada</i>	
2:45 - 3:00	BREAK		
3:00 - 3:45	Industrial Robots and Systems, Introduction to the ISO-10218 Jim Van Kessel – <i>JVK & Associates</i>	Safety PLC's with An Innovative Approach Roberta Nelson Shea – <i>Pilz Automation Safety LP</i>	
3:45 - 4:30	Risk Assessment & Control Reliability Tom Doyle – <i>Industrial Safety Integration</i>		
4:30 - 5:30	RECEPTION		

DAY TWO – JUNE 3RD

7:45 - 8:00	BREAKFAST		
8:00 - 9:15	FEATURED PRESENTATION: Journey to Zero Lisa Williamson – <i>ArcelorMittal Dofasco</i>		
9:15 - 10:15	Electrical Schematics – Safety Control Systems Basic Design Criteria Gil Domenguez – <i>Pilz Automation</i>	Electrical Safety in the Workplace Mike Doherty – <i>E&USA</i>	
10:15 - 11:00	BREAK/INTERACTIVE EXHIBITORS		
11:00 - 12:00	Safeguarding of Machinery Mike Wilson – IAPA	Case Studies - Proven Results Paul Brzustowski – <i>Stantec Consulting Ltd.</i>	
12:00 - 1:15	LUNCHEON/INTERACTIVE EXHIBITORS		
1:15 - 3:00	Speaker Panel Discussion <i>An interactive session with an opportunity to address questions directly to many of the conference speakers</i>		
3:00 - 4:00	Selection and Use of Safeguarding Devices Ian Brough – <i>SICK Inc.</i>	Interlock Devices: Experiment and Learn Mike Wilson – IAPA	
4:00	CONFERENCE ENDS		

TO REGISTER



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CHOOSE FROM OVER 20 INFORMATIVE SESSIONS

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FEATURED PRESENTATION: June 3 | *Journey to Zero*

You'll receive an overview of ArcelorMittal Dofasco's "Journey to Zero" project which engaged people cross-organizationally to gather current-state information on health and safety beliefs. These beliefs were compared to world-class performance benchmarks to identify opportunities for health and safety performance improvements. Strategies to close gaps were identified and integrated into business plans. Since 2003 there has been a steady reduction in all KPI's. In particular, Lost Time Injury frequency went from 2.11 (200,000 man hours) to .19 – a 91% improvement.

PRE-START HEALTH & SAFETY REVIEWS - UNDERSTANDING SECTION 7

The requirements dealing with pre-start health and safety reviews (PSRs) are numerous and complex. Gain clarity on these requirements through an interactive clause by clause review of Section 7 (Pre-start Review) of the *Regulations for Industrial Establishments*.

LOW COST ERGO INTERVENTIONS - CASE STUDY

Machine operators can be at significant risk for musculoskeletal disorders. This case study will present various examples where low cost solutions have been used to address ergonomic issues.

UPCOMING CHANGES IN THE NEW Z142 POWER PRESS STANDARD

Get up to speed on the new criteria in the upcoming CSA Z142 Power Press Standard including: large press requirements, servo press/direct drive press requirements, addition of slide locking criteria, harmonizing safety performance criteria, maintenance safety and recognition of AOPD's for use as press brake safeguarding devices.

HONDA CASE STUDY: SAFETY BY DESIGN

A demonstration – using equipment from Honda Canada's Engine Plant – of how to apply CSA Z432, Z460 and Z432 standard requirements. The discussion will highlight the entire process from initial concept meeting, through to risk assessment, installation and commissioning.

INDUSTRIAL ROBOTS AND SYSTEMS: INTRODUCTION TO THE ISO-10218

Receive an introduction to changes to requirements for Robots as defined in ISO 10218 Part 1 as well as proposed changes to 10218 - Part 2. The focus will be on "collaborative" robots covering soft access and control requirements. This session will be of great value to those responsible for installation of robots and robotic integrated systems.

ELECTRICAL SCHEMATICS - SAFETY CONTROL SYSTEMS BASIC DESIGN CRITERIA

Learn the hierarchy of design practices integral to ensuring worker safety in an industrial setting including the four safety control systems: simple, single channel, single channel with monitoring and "control reliable". These systems are found within Safeguarding of Machinery Standard Z432 and CSA 434-03 for Industrial Robots.

SELECTION AND USE OF SAFEGUARDING DEVICES

Gain an understanding of the myriad of safeguarding devices available today with highlights of their benefits as well as their shortcomings. Essential guidance to help you make the best possible guarding choice for your robot application.

INTERLOCK DEVICES: EXPERIMENT AND LEARN

Experiment with four different machine guarding interlock devices in this practical, hands-on session. You will gain selected knowledge such as identifying common gaps with the installation of interlock devices. Pre-registration required as a maximum of 16 participants can be accommodated in this session. Session repeated on Day 2.

CASE STUDIES - PROVEN RESULTS

Understand the hazards posed by machine elements through case studies that demonstrate the advantages of generating Output Device-Specific risk assessments. CSA Z432-04 and ISO 13849-1 will be used to evaluate different methods for compliance. In addition, Fault Exclusion Analyses, Mean Time to Dangerous Failure (MTTfD) and Diagnostic Coverage (DCavg) calculations will demonstrate that well-tried industry devices and safety principles are encouraged by today's standards.

THE BUSINESS CASE FOR HEALTH & SAFETY

Learn the cost aspects associated with accidents, the effect they can have on profitability and the return on investment that can be achieved from an effective health and safety program.

SAFETY PLC'S WITH AN INNOVATIVE APPROACH

Presenting Safety PLCs and their requirements as defined by ISO, ANSI, and Canadian standards, and introducing a new "safe vision" system which includes the functionality of a safety PLC. Understand the benefits of implementation into an integrated manufacturing system. As well, receive a copy of a Lean and Safety assessment technique paper of an actual robot.

SUPPORTED BY:



CANADIAN STANDARDS ASSOCIATION

ABOUT CSA

CSA's reputation as a leading standards development organization dates back almost 90 years. As an independent, not-for-profit membership association, we publish over 3,000 standards and standards-related products in a wide range of subject areas. We also offer a full suite of services and solutions that help you understand, interpret and apply standards so you can achieve the most value from employing standards. Please visit us at www.csa.ca

Canadian Standards Association is a division of CSA Group, which also consists of CSA International for product testing and certification and OnSpeX for consumer product evaluation services.

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ABOUT IAPA

IAPA is a not-for-profit, member driven organization operating in Ontario since 1917. Representing approximately 50,000 member firms and more than 1.5 million Ontario workers, IAPA is Canada's leader in workplace health, safety and employee well-being.

IAPA is focused on providing industry-leading training, consulting, educational products and informational services that meet our members' needs and the needs of those in their communities. For more information, visit our website at www.iapa.ca.

Centre for Health & Safety Innovation, 5110 Creebank Road, Suite 300, Mississauga, Ontario L4W 0A1

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REGISTRATION FEE

Includes continental breakfast, lunch and course materials.

- Canadian residents add 5% GST
- Quebec residents add 7.5% TVQ
- Maritime residents (NB, NS, NL) are subject to a 13% HST in lieu of the 5% GST

CSA Sustaining Members receive an additional 10% discount

CANCELLATION/SUBSTITUTION AND TRANSFER POLICIES

Cancellation requests received more than 14 calendar days before the start date of the conference will receive a full refund minus a \$100 administration fee. Cancellation requests received within the 14 calendar days prior to the conference start date will be non-refundable.

Substitutions will be permitted at any time prior to the start of the conference. Please ensure that the substitute has met the prerequisite requirements, if any.

Payments must be received before the conference. CSA reserves the right to cancel any conference and will, in such event, fully refund all registration fees. No liability is assumed by the organizers for changes in conference dates, content, speakers or venue.

PRIVACY STATEMENT: CSA

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SFXA1420903

CSA and IAPA Present 2009 Machine Safety Conference

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Conference Name: 2009 Machine Safety Conference

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TOTAL	\$		