

Perspectives

2003 Annual Conference

Shaping solutions for energy and the environment

Energy. The environment. No matter who you are or what you do, it's hard to imagine two issues that affect you more.

Whether it's heating your home, transporting your goods, powering your equipment, or lighting your office, energy is central to how we live and work. With the Kyoto Protocol and other climate change initiatives, traditional technologies used to power our society must change. In fact, distributed generation and advances in alternative fuel technologies are poised to dramatically alter the energy landscape.

Will you be ready for this revolution? How will the energy and environment agenda affect your business and your life? How can standards provide solutions to some of the toughest issues in these fields?

These and other questions will be debated at *Shaping Solutions Through Standards*, CSA's 2003 Annual Conference, June 15 to 17 at The Fairmont Algonquin in St. Andrews-by-the-Sea, New Brunswick, Canada.

The program is stacked with provocative

speakers, interactive sessions and opportunities for one-on-one dialogue. Join roundtables of industry thought leaders as they explore the complex issues surrounding energy and the environment. Then engage in real-world solutions as you share your knowledge, ideas, experience and insights with fellow delegates in practical workshops.

Champion of innovation takes centre stage



The Hon. Brian Tobin

The Hon. Brian Tobin, one of Canada's most colourful public figures, will inform and inspire delegates as this year's keynote speaker. Recognizing the realities of the new, global economy, Mr. Tobin has long promoted the idea that research and innovation are the keys to long-term success for business, and prosperity for Canadians.

For two days in June, St. Andrews-by-the-Sea will become the place to meet, mingle and collaborate with people who understand the importance of standards in our world. On the edge of Atlantic Canada, encircled by natural beauty, what better place to shape solutions for energy and the environment!

For more information and to register for CSA's 2003 Annual Conference, visit www.csa.ca or call **Jacqui Sullivan** at (416) 595-1414.

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New Developments in Sustainable Forest Management

Public participation, performance, and management system components are three crucial elements for moving towards sustainable forest management. The new edition, CSA Z809-02, *Sustainable Forest Management: Requirements and Guidance*, (SFM) incorporates

these elements while including requirements for the protection of biodiversity, soil and water quality, and sites of special biological significance.

The revised standard requires a rigorous local public participation process designed to incorporate local concerns while providing organizations with a system for continually improving their forest management

performance. A further goal of the new standard is to give Canadians an on-going voice in the management of their forests.

In response to feedback from users, CSA's new Sustainable Forest

Management Standard combines CSA's guidance and requirement standards – Z809-96 and Z808-96 – into a single comprehensive document. CSA Z809-02 outlines the requirements that forest managers must follow to demonstrate to customers and the public that forests are managed in an inclusive, responsible and sustainable manner.

The Canadian Sustainable Forestry Certification Coalition predicts that by 2006, 72 million hectares of Canada's forests will be certified to CSA's SFM Standard – an area larger than the entire province of Alberta.

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CANADIAN STANDARDS ASSOCIATION

Hydrocarbons Storage Standard provides industry benchmark

Hydrocarbons have been stored underground in Canada for almost 90 years. In Ontario alone, there are at least 73 caverns storing approximately 24 million barrels of petrochemicals and natural gas, worth an estimated value of over one billion dollars.

Storage of high-volume and volatile hydrocarbons in underground caverns provides cost savings and environmental advantages compared to storage in structures above the ground. Marketers can buy hydrocarbons at lower prices during off-peak periods, and store them in these underground caverns for use during the peak winter season.

The recently published third edition of CSA Standard Z341 Series-02, *Storage of Hydrocarbons in Underground Formations*, outlines requirements for the storage of natural gas, diesel, methane, ethane, propane, butane and other hydrocarbons alone or in

mixtures. Although underground storage has an excellent safety record, there are still some risks associated with handling both large volumes of hydrocarbons at high pressures and velocities, and other volatile materials in geological formations.

“Standards such as the Z341 Series are critical for safe operations within the hydrocarbons storage industry,” said Rudy Rybansky, Technical Committee Chair and Chief Engineer with the Ontario Ministry of Natural Resources, Petroleum Resources Centre. “Using CSA’s consensus-based approach to standards development, we were able to bring together all stakeholders to devise a comprehensive standard to address the changing nature of hydrocarbons storage in North America and around the world.”

To make the standard user friendly, Z341 Series-02 has been redesigned so that the requirements for each type of storage facility – reservoir, salt cavern and

mined cavern – have been classified in separate sections of the document.

The standard sets out the minimum requirements for the design, construction, maintenance and the abandonment of hydrocarbon storage in underground formations and associated equipment.

“With the publication of Z341 Series-02, Canada is maintaining its leadership role in addressing and responding to the challenges faced by industry regulators, operators and the public at-large,” says Onorio Cicchini, CSA Technical Committee Member and Wells Associate with Dow Chemical. “This standard will serve as the benchmark for the global oil and gas industry into the future.”

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Pat Keindel Addresses Robot Safety Conference

Pat Keindel, President, Standards, Canadian Standards Association, discussed the most significant features of the new edition of CSA Standard Z434, *Industrial Robots and Robot Systems – General Safety Requirements*, as a guest speaker at the North American 2003 Robot Safety Conference held March 27-29, 2003 in Mississauga.

“The new industrial robot standard is the result of the tremendous effort of members of the Technical Committee, the Robotics Industries Association, manufacturers, government, and users to reach consensus and produce a standard that will enhance the application of this exciting technology,” Ms. Keindel told the audience. “The new edition, which is now harmonized for North America, exemplifies CSA’s



purpose of making standards work for people and business. It readily illustrates the balance between the need for worker safety and the requirement for efficiency in today’s very competitive manufacturing environment.”

The main objective of this standard is to assist in preventing injuries and accidents and enhance the safety features of industrial robot systems. Some of the most important changes from the previous edition include a section on retrofitting existing installations and a number of revised requirements for safety features.

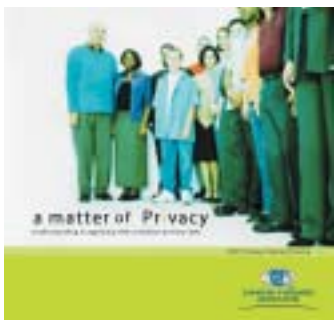
“Robotics technology represents an excellent opportunity for manufacturing in Canada,” added Ms. Keindel. “The fact that this new edition of the Robotics standard is harmonized with U.S. requirements will encourage cross-border trade and ensure that companies on both sides of the border address safety issues in a like manner.

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What’s New at CSA

PRIVACY CODE NOW AVAILABLE ON CD ROM

Privacy and the protection of Personal Information is a critical issue facing commerce and industry today. As of January 1, 2004, all Canadian organizations that collect, use or disclose personal information in the course of a commercial activity will be required to comply with the federal Personal Information Protection and Electronic Documents Act (PIPEDA), or similar provincial



legislation. The PIPEDA now establishes a framework of privacy rules that is built on the **CSA Q830**, known as the **Privacy Code**.

The Canadian Standards Association has just released a Privacy Code CD-ROM. Titled *The Privacy Code CD-ROM – A matter of Privacy – Understanding and applying new Canadian Privacy Laws*, the new CD-ROM provides everything an organization needs to

become privacy compliant – a step-by-step approach on how to apply the Privacy Law. It features PDFs, codes, laws, exercises and tutorials based on the user’s roles and responsibilities, in a searchable, easy-to-navigate format.

The CSA Learning Centre also offers a one-day workshop led by Murray Long, privacy expert and CSA Privacy Committee member. In the new round of seminars, a copy of the *Privacy Code CD-ROM* will be included with this course.

For information on the new CD-ROM, CSA’s privacy documents and seminars, visit the CSA online store at www.csa.ca

NEW EDITION OF Z142 POWER PRESS STANDARD

Canadian Standards Association has published a new edition of its standard Z142: *Code For Power Press Operations*. The standard outlines requirements for the design, manufacture, installation, maintenance, operation, safeguarding methods and safety and guarding considerations for all classes of power presses. Z142-02 is

a National Standard of Canada, and is mandated in legislation in most provinces across Canada.

The new edition of the standard has been significantly expanded, now covering additional requirements for mechanical, hydraulic and pneumatic power presses. Z142, *Power Press Operation: Health, Safety and Guarding Requirements*, is available by visiting CSA online at www.csa.ca.

PLANS TO DEVELOP A SPECTATOR SAFETY STANDARD FOR INDOOR ARENAS

Concern for spectator safety has risen recently, following high profile incidents of spectator injury in indoor arenas in both Canada and the U.S. The Canada Safety Council and the Canadian Recreation Facilities Council are working with CSA to develop a voluntary standard targeted to owners, operators and designers of indoor arenas and will provide guidelines for enhancing the safety of all arena users.

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Propane Gas Association honoured as CSA Sustaining Member

The Propane Gas Association of Canada (PGAC) is an organization that provides a forum and focal point for industry communications, government advocacy and safety, regulations and compliance. It represents 160 propane producers, wholesalers, retailers, and transporters as well as manufacturers of appliances, cylinders and equipment.

The PGAC is a Sustaining Member of the Canadian Standards Association, and works closely with CSA on a number of issues. PGAC's interest is in the B149 series of Gas Standards, dealing with installation codes and standards for equipment such as dispensers, propane

lights, gas fireplaces, hoses, and outdoor gas grills.

PGAC participates on code and standard technical committees, as well as technical committees at the federal and provincial level, to provide input on regulations.

"The PGAC believes strongly in the work carried on by CSA and the positives our industry receives from quality and safety standards jointly created by all the players involved," says Bob Cunningham, Managing Director of the PGAC. "Our sustaining member status is maintained because we believe not only in the process, but also in the quality of the resulting standards and the positive outcomes for industry and the public."



Pat Keindel, President, Standards, Canadian Standards Association (right) presents Bob Cunningham of the Propane Gas Association of Canada with a plaque honouring PGAC as a Sustaining Member of CSA.

Grant Carter receives Golden Jubilee Medal

Grant Carter, Vice President, Marketing & Communications, CSA Group, has been honoured by the Governor General of Canada with the Golden Jubilee Medal.

The Commemorative Medal was created to mark the 50th anniversary of Her Majesty Queen Elizabeth II's accession to the throne on February 6, 1952. The Golden Jubilee Medal is awarded to Canadians who have made a significant contribution to Canada, to their community or to their fellow Canadians. Grant was nominated by the Canada Safety Council (CSC) in recognition of his leadership as Chair of the CSC Board of Directors.



TransCanada PipeLines Limited – Pipe, Power, People, Performance

Whether it's maintaining one of the world's most sophisticated natural gas pipeline systems or growing its power business, safety and reliability are always a priority for TransCanada PipeLines. "CSA Standards have helped pave the way to the company's success in the past and they will continue to shape its future," says **Brian Rothwell**, Senior Engineer, Pipe Engineering.



Sudi Kalra of Canadian Standards Association (centre), presents Brian Rothwell (left) and Tom Slimmon (right) of TransCanada PipeLines with a sustaining membership plaque.

Standards - Then and Now

TransCanada uses a wide range of materials and construction technologies in its 38,000 kilometre (24,000 mile) natural gas transmission system.

The company installed the first commercially produced Grade 690 (X100) line pipe in the world last year in Alberta, but at the same time, it continues to safely operate and maintain pipelines installed more than forty years ago.

CSA Z662 Oil and Gas Pipeline Systems and the related Z245 material standards underpin the company's specifications, standards and practices, as well as provincial and national regulations under which it operates. Other standards, such as the B51 Boiler, Pressure Vessel and Pressure Piping Code, the C22 series Canadian Electrical Code, and the Z731 Emergency Planning Code are also fundamental to its operations.

"Canada is well served by a strong standards system that's based on a genuine and effective consensus process. It's important for industry stakeholders not only to help develop their own standards, but also to be visible in supporting a strong and healthy national system overall," says Mr. Rothwell.

Proven track record

TransCanada and its precursor companies have served on technical committees in the Oil and Gas Industry program since the first Canadian Gas Pipeline Standard, CSA Z184-68. Employees **Tom Slimmon** and **Brian Rothwell** each have about twenty years of involvement in these committees and have received the CSA Award of Merit. Several other TransCanada employees have received Certificates of Achievement for their work in the pipeline sector.

Upcoming EVENTS 2003 SUMMER & FALL



CSA LEARNING CENTRE

CSA Learning Centre offers seminars on the following topics this summer and fall.

The CSA Learning Centre offers convenient access to the combined training resources of the entire CSA Group.

- Accident Investigation
- 2002 CE Code Essentials
- Bonding and Grounding of Electrical Equipment
- Code for Power Press Operation
- Electrical Disturbances – A Study of Harmonics
- B44 Elevator Safety Code
- Guideline on Office Ergonomics
- The Fundamentals of Fall Protection
- A User's Guide to Fall Protection
- Design, Installation and Maintenance of Electrical Equipment in Hazardous Locations
- Implementing ISO 9001:2000; Implementing ISO 14001; Integrating ISO 9001:2000 with ISO 14001
- The Privacy Code
- Respiratory Protection Series
- Sustainable Forest Management

To register or obtain information about discounts, content, in-house training or other details call (416) 747-4017 in the Toronto area or 1-800-463-6727, e-mail seminars@csa.ca or visit the Web site at www.csa.ca.

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First-Ever Canadian Standard on High-Visibility Work Clothing

"HiVis" apparel provides bright fluorescent colours to increase the visibility of workers by day, and reflective stripes to allow them to be visible by night.

Typically this type of clothing is associated with traffic vests worn by road construction workers, police officers, and utility maintenance people. However it is now being worn by couriers, airport ground crews, railway workers, truckers, ambulance personnel, miners, shipping crews and dock workers.

Canadian Standards Association recently published a new Standard on High-Visibility Safety Apparel.

The CSA Z96 Standard is based on a similar American Standard (ANSI 107) and a European Standard (EN 471). Many of the performance and testing requirements are based

on research done for these standards. However, the CSA Standard is oriented toward the particular needs of Canadian workplaces and past Canadian practices in identification of workers on job sites.

The Z96 Technical Committee is excited to promote this first-ever Canadian standard on high-visibility work clothing.

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CSA members: Send your changes to **Canadian Standards Association, Member Services, 5060 Spectrum Way, Mississauga, ON Canada L4W 5N6, E-mail member@csa.ca, Fax (416) 747-2473.**

ANSI members: Send your changes to **CSA International, Lynn Smoke, 8501 E. Pleasant Valley Road, Cleveland, OH U.S.A. 44131-5575, E-mail lynn.smoke@csa-america.org, Fax (216) 520-8979.**

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