

Perspectives

CSA a World Leader in Oil and Gas Pipeline Standards

If you laid all the oil and gas pipelines in Canada end to end, they would wrap around the equator 17 times. And, the inter-provincial pipeline stretching from Edmonton to Toronto is the world's longest crude oil pipeline. With statistics like these, is it any wonder that the Canadian Standards Association is a world leader in standards development for Oil and Gas Pipelines?

CSA's standard, Z662 — *Oil & Gas Pipeline Systems*, is the only standard in the world that deals with transportation of both oil and gas. In the 90s, CSA merged its four existing oil and gas pipelines standards into one document creating this new standard which also includes oil and gas transportation systems, distribution systems, and offshore and aluminum pipelines. About 300 committee members work on nine sub-committees, each of which is responsible for developing and maintaining at least one or two sections in the standard.

One of the goals in setting standards for pipelines is to enhance public safety and environmental protection. Pipeline ruptures could potentially cause injury, death and significant environmental damage. In 1994, there were six pipeline ruptures, but in 1998, 1999 and 2000, there was only one rupture per year.

"Some of our standards in the Oil & Gas Industry Program, especially pipe coating standards,

are universally accepted," says Project Manager, Sudi Kalra. "We receive calls from the U.S., Europe, the Far East, India, South America, etc. The standards take into account of our unique environmental conditions including temperatures that dip to -50°C in winter."

The Z662 commentary, published in 2001, has been well received by the industry. It provides background information concerning some clauses and requirements, helping readers to implement the standard, and to research materials used in its formulation.

The next edition of Z662 Standard is scheduled for publication in June, 2003. It will be a "smart" standard providing links to other CSA standards and the Z662 Commentary, and tools to users to solve formulae on-line.

CSA also has a new promotional campaign to increase awareness of the benefits of oil and gas pipeline standards and to acknowledge the work of committee members. It includes an advertisement that appears in Canadian Business magazine, March 18, 2002 issue, featuring a testimonial from Art Meyer, VP

Technology, Enbridge Pipelines (shown at left).

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"There isn't an hour in a day Enbridge doesn't rely on CSA standards," says Art Meyer, VP Technology, with Enbridge, a company that operates the world's longest crude oil and liquids pipeline as well as Canada's largest natural gas distribution company. "National standards are critical to Enbridge to effectively, efficiently, and safely operate across the breadth of Canada - from the arctic to the maritimes, through major urban centers and across the prairies. Standards have helped make Enbridge a leader in long distance pipelines and the remote operations of our system."

— ART MEYER, VP Technology, Enbridge Pipelines

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We're listening!

Committee members have told us that they need tools to help use their time on Canadian Standards Association standards writing committees more efficiently.

At CSA we're listening.

Pat Keindel, President, Standards, Canadian Standards Association is pleased to announce the launch of the CSA Member Education CD-ROM and Member Orientation Packages.

"Now we can provide a standard set of information materials for Committee Members," says Ms. Keindel.

Addressing the issues of training and technology, this interactive learning vehicle complements the current in-person Member Training Sessions. It also provides a wealth of information on CSA, the National Standards System and the Standards Development Process.

The CD-ROM features video dramatization of committee meetings, optional interactive self-tests and quizzes, an easy-to-use search function, frequently asked questions, sample standards section and a glossary of terms



Pat Keindel, President, Standards, Canadian Standards Association, with the new Member Orientation CD-ROM.

and acronyms. This self-paced training format allows members the flexibility to learn about their roles and responsibilities in a way that is convenient for them.

The Member Orientation package, to be distributed to new members, will include a copy of the CSA Directives and Guidelines, a Member Handbook, the new Member Education CD-ROM and sections for committee materials and notes.

Contact: **Member Services**, 1-800-463-6727 or 416-747-4206, member@csa.ca



CANADIAN STANDARDS ASSOCIATION

CSA Standards Provide Protection from Head to Toe

Eye and foot protection are the focus of two new standards and accompanying user guides released by Canadian Standards Association this spring.

The consumer handbook, Protective Eyewear, a User's Guide, is now available. Based on the CSA Industrial Eye and Face Protectors standard, CAN/CSA -Z94.3-99, the guide is a valuable tool for employers, safety professionals and users, providing practical tips on the selection, maintenance and effective use of protective eyewear. An updated version of the Standard itself will be available in August.

Previous versions of both the standard and the user's guide were restricted to plano — or non-prescription — protective eyewear. The latest editions include information on extensive testing procedures and quality assurance programs for prescription eyewear used for eye and face protection.

"Dealing with prescription eyewear was challenging since there are a number of different parties involved in manufacturing and assembly," says Project Manager, Dave Shanahan.

New classes of footwear

Electrical conductive footwear and chainsaw protection are now included in the latest edition of CSA's Protective Footwear standard, Z195-02, broadening the workplace applications the standard addresses. This standard is recognized by provincial regulators and referenced in legislation in many provinces across Canada. It outlines testing requirements for toe impact, metatarsal (the part of the foot between the ankle and the toes) protection, electric shock resistance, static dissipation and sole flexing.

As a complement to the standard, a new user's guide on Protective Footwear is also available. A useful tool for employers, safety professionals and users of protective footwear, it includes practical tips on how to select the most appropriate footwear based on the job and the work environment, a list of different types of footwear available, and how to conduct a "foot hazard assessment" of the workplace.

Contact: **Dave Shanahan, (416) 747-2586, dave.shanahan@csa.ca**. To order the standard, contact CSA Standard Sales at sales@csa.ca.

1



2



3



4



1. Clear spectacles. 2. Protective eyewear for welders. 3. Head, eye and hearing protection. 4. Tinted plano eyewear.

What's new from the



The CSA Learning Centre offers convenient access to the combined training resources of the entire CSA Group including the Canadian Standards Association, QMI and CSA International.

CE Code Handbook and Smart Standard

Everyone who installs or maintains electrical equipment in Canada refers to the Canadian Electrical (CE) Code, Part I. Soon there will be two new products to help them navigate the 2002 version of the Code and explain the information contained in this essential document.

- The CE Code Handbook is an easy-to-read guide to the Code, with new and revised diagrams to further explain various rules, plus information on the history, rationale and intent behind the rules.
- The CE Code Smart Standard is an interactive CD-ROM that contains the Code, the Handbook, a calculator and additional tables.

Web-based Accident Investigation

Knowing exactly how and why an accident or injury occurred gives your health and safety team the vital information it needs to reduce risks through effective planning. The CSA Learning Centre has a new product aimed at organizations that want to train employees in accident investigation techniques — on their own time in their own workspaces. CSA's Accident Information Web-based learning takes employees on a step-by-step course through the principles of accident investigation. It features a fully-searchable PDF version of CSA's Accident Investigation Standard, CAN/CSA - Z796-98. It also includes industry-wide, province by province guidelines with links to relevant provincial Web sites.

Privacy Code Interactive CD-ROM

All Canadian organizations that collect, use or disclose personal information in their commercial activities will be required to comply with the federal privacy law or similar provincial laws by January 1, 2004. This legislation will have a huge impact on human resources, marketing and information departments across the country. CSA's Privacy Code interactive CD-ROM, *available soon*, is based on the CSA Model Code for the Protection of Personal Information, which provides the framework for the Canadian and provincial legislation. It includes searchable PDF files for the Model Code and two "plus" products, *Making the Privacy Code Work for You* and *Implementing Privacy Codes of Practice — Commentary*. It also includes the Personal Information Protection and Electronic Documents (PIPED) Act, Part I. This fully-integrated, customizable package guides users in understanding and applying all aspects of the Privacy Code within their organizations.

Contact **CSA Standard Sales** at sales@csa.ca or by calling toll free 1-800-463-6727.

Standards Health Care Web Site

Coming soon to a computer near you! CSA's new Standards Health Care Technology Web site will provide information on current and planned activities in 19 health care technology areas on topics ranging from child resistant packaging to engineering and physical plant standards for health care facilities. Starting in April 2002, you will be able to access this site through the CSA Web site at www.csa.ca or <http://hct.csa.ca>. Initially, the health care section will provide information on CSA pro-

grams only. It will become a portal that will link users to health care standards information from other organizations and stakeholders.

The Health Care Technology Web site is the first of its kind to be developed by CSA. Next on the agenda is a Web site dealing with Occupational Health and Safety.

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Restructuring to serve you better...

The Canadian Standards Association has announced a new organization structure to help optimize its new strategic business design, build a team with knowledge of all facets of the organization, and position CSA for success in an increasingly competitive environment. **Pat Keindel**, President, Standards, Canadian Standards Association is pleased to announce the following changes.

John Walter has been appointed Senior Director, Standards Development. In this new role, John will cultivate a consistent culture and process in Standards Development and prioritize consensus development projects.

Three Development Directors report to John Walter. **Husam Mansour** is Director, Life Sciences and Business Management, **Bill Burr** is Director,

Electrical and Gas and **Paul Bates** is Director, Built Environment.

John Maheu has been appointed Director, Operations Quality Assurance. In this new position he is accountable for accreditations, audits, and risk management, and will oversee Editorial and Production Services, Membership, the Project Management Centre, and Policies and Procedures.

Lynne Dunbar continues as Director, Systems and Administration, with added responsibilities for the new building in addition to Finance, Information Technology and Office Administration for CSA.

Lance Novak will continue as Director, Information Products with responsibilities for sales and product development. Lance's role will expand to include all training programs related to standards and management systems registration.



Paul Bates



Lance Novak



Lynne Dunbar



Bill Burr



John Walter



John Maheu



Husam Mansour

First online public review for CSA standards

For the first time, the public will have a chance to review draft CSA standards online. CSA standards on cells, tissues, and organs for transplantation are being reviewed online during a pilot project underway from December 3 until April 14.

The public can access draft CSA Standard Z900.2.5, *Safety of Therapeutic Cells of Lymphohematopoietic Origin for Transplantation*, and provide their comments online. The process is simple — interested parties just click on the CSA Web site, www.csa.ca, go to the Standards section, then select Information Update, and click on the Standard they wish to view (Direct link is: http://www.csa-intl.org/english/infoupdate/main_en.asp)

The results have been promising," says Nancy Bestic, Project Manager for the Transplantation Standards. "People find it easy to access. Many people use the Web to download other types of documents so it's a natural step to have public review comments on the Web."

Ms. Bestic has found that there are many advantages to online review. These include:

- Easy access for both Members and public stakeholders.
- The potential for greater exposure of the standard for public comment.
- The ability for Members and stakeholders to review and comment on the drafts in a one-step process.
- Cost and time savings compared to printing and mailing of the standards.
- More actual review time for the public.
- The ability for International stakeholders to access the draft standards quickly and easily.
- The ability for those reviewing the comments to sort them by clause.

Doug Geralde takes on new roles in NACLA, IAEI

Doug Geralde, CSA Group's Director, Corporate Audits and Investigations, has been re-elected as Secretary, Executive Committee, of the National Cooperation for Laboratory Association (NACLA) on January 1, 2002. NACLA is a not-for-profit organization that was incorporated in 1998 to evaluate U.S. laboratory accreditation bodies (ABs) and grant recognition to those ABs that are found to be in compliance with NACLA procedures and the international standard for AB competence (ISO-IEC Guide 58).

Mr. Geralde has also been named to the newly-created position of International Vice President of the International Association of Electrical Inspectors (IAEI). He recently completed his one-year term as International President, IAEI.



Doug Geralde (seated) with other Canadian Section representatives to the International Board of IAEI, **l to r, Steve Douglas, Electrical Safety Authority (Ontario), Rick Gilmour, CSA, and David Clements, Nova Scotia Power.**

PROFILE



Jean-Louis Robert

Quebec Volunteer Works for Electrical Safety

Work on the CE Code Part I, which establishes safety requirements for installation and maintenance of electrical equipment, is one of Jean-Louis Robert's proudest accomplishments as a CSA volunteer. With its coverage of many types of electrical installations, Mr. Robert thinks of it as a comprehensive, authoritative resource, outlining the rules for electrical safety and electrical design across the country.

With degrees in electrical engineering and law, Jean-Louis is Manager, Electrical Sector at the Régie du bâtiment du Québec, Standards Division. He is responsible for the interpretation of the Electrical Installation Act, the regulations that govern electrical installations, and the Quebec Electrical Code which relates directly with his work as a CSA volunteer.

As a member of many CSA technical committees, Jean-Louis has spent about four hours a day on CSA activities for more than 14 years, in addition to chair-

ing the Canadian Advisory Council on Electrical Safety. He is also chairman of the Regulatory Authority Committee (RAC), which consists of all Chief Electrical Inspectors from across Canada.

Mr. Robert is one of 7,000 CSA volunteers spanning many industries. Top scientists, engineers, managers, academics, technicians and consumers dedicate their time and resources in order to make a difference in their industry.

Mr. Robert finds CSA's consensus-based approach particularly important. "A consensus is not necessarily one hundred percent, but it's sometimes quite close" he says. "Committee members feel confident when an amendment is passed that it will be a solid addition to the standards."

He notes that since so many accomplished people are involved in CSA committees, a committee member can often find a solution to a problem in a few weeks or months — or sometimes even hours — much faster than they would in normal circumstances.

Upcoming EVENTS 2002 SPRING & SUMMER

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

The CSA Learning Centre offers convenient access to the combined training resources of the entire CSA Group including the Canadian Standards Association, QMI and CSA International.

- 2002 CE Code Essentials
- Bonding and Grounding of Electrical Equipment
- Electrical Disturbances — A Study of Harmonics
- B44 Elevator Safety Code
- The Privacy Code
- Guideline on Office Ergonomics
- The Fundamentals of Fall Protection
- Design, Installation and Maintenance of Electrical Equipment in Hazardous Locations
- Implementing ISO 14001; Integrating ISO 9001:2000 with ISO 14001
- ISO 14000 Environmental Management System (EMS) Essentials
- ISO 9001:2000 Transition
- OH & S Management Systems (BS18000)

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.

April

16-18

Visit CSA at Booth 135 at the **Western Manufacturing Technology Show** (formerly the Vancouver Industrial Exhibition), Abbotsford, British Columbia.

22-24

Visit the CSA Booth at the **IAPA "Growing our Future" Health and Safety 2002 Conference and Tradeshow**, Toronto, Ontario.

May

18-21

Visit CSA at Booth 5053 at the **National Restaurant Association's NRA 2002 show**, Chicago, Illinois.

June

4-6

Visit CSA at Booth 11819 at **Supercomm**, Atlanta, Georgia

16-20

Visit CSA at Booth 2057 at the **American Water Works Association (AWWA)**, New Orleans, Louisiana

August

19-23

Visit CSA's Booth at the **2002 IEEE International Symposium on Electromagnetic Compatibility**, Minneapolis, Minnesota

September

29-30

Visit CSA's Booth at **ICBO/BOCA**, Fort Worth, Texas

October

1-3

Visit CSA at Booth 132 at the **World of Elevators**, Las Vegas, Nevada



The CSA Learning Centre's one-day Fall Protection workshops provide "hands on" instruction on the proper use of harnesses, shock absorbers and lanyards.

Perspectives

The Canadian Standards Association publishes *Perspectives* for its membership. To obtain more information about the services described, contact the person(s) listed at the end of the articles or call Customer Service at 1-800-463-6727 or, in the Toronto area, (416) 747-4007.

For more information about *Perspectives*, contact:

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Address Change FaxBack

CSA and Interim CSA (formerly Canadian Gas Association) members; Send your changes to **Canadian Standards Association, Member Services, 178 Rexdale Boulevard, Toronto, ON Canada M9W 1R3, 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.**

Other readers: Send your changes to **Colleen Isherwood, CSA Marketing and Communications, E-mail colleen.isherwood@csagroup.org, Phone (416) 747-4126, Fax (416) 747-4292** or the Toronto address above.

I would like to receive an electronic PDF version of the newsletter rather than a printed copy.

IMPORTANT!

Please attach the address label from your *Perspectives* envelope here so we can match it with your record and have changes made efficiently.

Change my address as follows:

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Canadian Standards Association

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