

Perspectives

CSA a leader in Standards for Alternative and Traditional energy sources

Shaping Solutions to Energy and Environmental Challenges

Canada faces challenges in the areas of energy and the environment that are both complex and exciting. Emerging energy sources ranging from wind power to fuel cells pose technological and regulatory challenges. And in more traditional areas such as oil and gas, forward thinking Canadians endeavor to conserve our non-renewable resources and help ensure that they are utilized safely.

The Canadian Standards Association has more than 60 standards dealing with energy efficiency and alternative energy products, plus many other standards dealing with traditional energy sources such as oil, gas and nuclear. CSA's standards development committees provide valuable forums, where interested parties can discuss energy and environmental issues and come up with viable solutions.

Fuel Cells: Innovative Thinking & Cooperation

Nowhere is this more apparent than in the emergence of fuel cells as a viable energy source. Fuel cells are a clean, environmentally friendly energy source that use hydrogen or natural gas to produce electricity, with usable heat and water the major byproducts. One of the most promising applications is for stationary fuel cell power plants, fueled by natural gas distribution plants or propane gas. Any emerging energy source poses challenges. For example, who takes the regulatory responsibility for fuel cells? Is it the electrical utility or the gas utility?

The Canadian Standards Association and its American counterpart, CSA America, have worked with technical committees made up of equal representation from gas and electrical regulators to publish one nationally recognized fuel cell standard for the U.S. and three additional sets of fuel cell requirements covering portable, stationary and residential fuel cells, as well as fuel cell modules. They are working towards binational harmonization of Canadian and American fuel cell standards.

"Addressing fuel cell issues requires innovative thinking on the part of regulators and manufacturers along with changes to traditional regulatory approaches," says **Glenn Tubrett**, Program Manager, Canadian Standards Association. "By using CSA's balanced, consensus-based approach to standards development, committees can work to rationalize regulatory responsibilities for fuel cells and build more efficient and productive relationships for the future."

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Wind Power in Canada

Interest in harnessing the wind as a promising source of clean, renewable energy is on

the rise in Canada. In the past decade alone, Canada has installed about 200 megawatts of wind energy capacity. Small turbines provide a reliable and economical source of electricity to supplement costly, polluting diesel generators in remote communities. Standards are essential to the future of such micro power sources, for all stakeholders—utilities, independent power producers, users and equipment manufacturers. By helping to meet needs for quality power, lower costs, uniform regulations and education, standards will ultimately contribute to use of these technologies.

"In Canada, we need a common guideline to facilitate the installation of small, privately-owned power suppliers on the main electrical grid," says Tony Flood, Chair of the MicroPower Connect (MPC) technical committee that is developing a Canadian interconnection guideline.

CSA is a member of the technical committee for MPC, a collaborative effort of Electro-Federation Canada, Natural Resources Canada and Industry Canada. MPC helps the alternative energy industry — which includes solar energy and micro-turbines as well as wind and fuel cells — deal with issues such as interconnection, and the need for consistent manufacturing and installation requirements across the country. MPC's guideline, *Canadian Guideline for Interconnection of Residential and Small Commercial Power Sources*, which will be published later this year, is designed to facilitate development of a national interconnection standard by CSA.

Just out ... the new edition of Z662-03, Oil and Gas Pipeline Systems

While renewable energy sources and energy efficiency have a role to play in Canada's future, other CSA standards deal with more traditional energy sources such as oil and gas.

Canadian transmission pipelines transport 95 percent of the crude oil and natural gas produced in Canada. They are the vital link that connect the producing wells in remote areas of the country to domestic and export markets in urban centers. The new edition of CSA Standard Z662-03, *Oil and Gas Pipeline Systems*, addresses both public safety and environmental concerns. The new Z662 is a "smart" standard, providing links to the Commentary on CSA Standard Z662, with tools to help users calculate formulae online. CSA's Biennial Pipeline Forum, which will be held from November 18-21, 2003 in Calgary, will provide training and an overview of the changes in the new edition, helping engineers address issues critical to the pipeline industry.

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CANADIAN STANDARDS
ASSOCIATION

TransCanada's Tom Slimmon receives CSA's highest honour

In a year when the theme for the Annual Conference is Energy and the Environment, it is only timely that this year's winner of the **John Jenkins Award for Excellence** has spent a lifetime working on oil and gas pipeline materials and performance standards that help protect the environment. Tom

Slimmon is a senior materials engineer with TransCanada PipeLines Limited in Calgary, a leading North American energy company with about 38,000 km of natural gas pipelines. He received CSA's most prestigious award, at the Annual Conference in St. Andrews-by-the-Sea, New Brunswick on June 15, 2003.

Mr. Slimmon's work on standards and pipeline projects spans 30 years. Most of his time has been spent on materials design and qualification of manufacturers for natural gas pipelines ranging in diameter from 60.3 mm to 1219 mm. Mr. Slimmon spent two years auditing major manufacturers of pipeline materials and conducting performance measurements and has worked on many overseas projects, the largest being the GasAndes pipeline from Argentina to Chile. Mr. Slimmon is currently a senior materials engineer with the technical support team in the pipeline engineering department at TransCanada.

Mr. Slimmon has been actively involved in the CSA standards process since 1979. He



Tom Slimmon

has been Chair of a number of subcommittees in the Oil & Gas Pipeline Systems program, the Technical Committee on Pipeline Materials, and the Canadian Advisory Committee to International

Organisation for Standardisation Technical Committee 67. The Oil & Gas Industry Pipeline Systems program underwent a major reorganization in 1994. Mr. Slimmon was appointed Chair of the new Subcommittee on Materials, which is responsible for 6 materials standards and parts of Z662. He is an associate member of the Technical Committee on Oil and Gas Industry Pipeline Systems and the Strategic Steering Committee on Oil and Gas Industry Systems and Materials. In 1992 Mr. Slimmon became a member of the Technical Committee on Boilers and Pressure Vessels where he will take over the position of Chair in August 2003. He was an active member of American Society for Testing and Materials for five years and a member of American Petroleum Institute for 15 years. Both of these memberships were on committees that developed material standards.

Mr. Slimmon is a member of the Alberta Professional Engineers, Geologists, and Geophysicists Association, ASM International, American Society of Mechanical Engineers, NACE International, and Standards Engineering Society. He is married with 3 children and 4 granddaughters.

Winners of CSA's 2003 Awards of Merit



J. (Jake) Abes, P.Eng.
Oil and Gas Pipelines



M. (Marcel) Chabot
Wire and Cable Standards



J.K. (John) Chan
Insulators and Canadian
Electrical Code Part III



Dr. Paul J. Dubord
Transplantation Standards



J.S. (James) Dunsmuir, P.Eng.
Standards for Older Persons and
Persons with Disabilities



R.M. (Richard) Grant
Offshore Structural
Standards



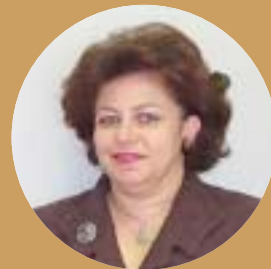
A. (Arvin) Hille
Chain Saw Standards



Michael J. Hopkins
Wire and Cable Standards



L. (Linda) Jakeman
Sterilization and Infection
Control Standards



Madiha El Mehelmy Kotb
Standards for Boilers, Pressure Vessels
and CANDU Nuclear Power Plants



D.S. (David) Lucas
Occupational Health and
Safety Standards



T.C. (Tom) McCavour
Structural and Construction
Product Standards



E.H. (Erni) Wiebe
Electrical Engineering and
Canadian Electrical Code Part III



P. (Paul) Young
Standards for Quality Assurance/
Management Systems for
Nuclear Power Plants

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F.A. (Gus) Goba
Electrical Insulation Standards

CSA Annual Awards celebrate our Volunteer Members

The **John Jenkins Award** is the most prestigious honour bestowed by the Canadian Standards Association. Winners are judged to have rendered distinguished service in the development, advancement, and application of voluntary standards. Since 1979, CSA has recognized accomplishments by Canadians who have made a difference both nationally and internationally towards the advancement of the arts and sciences related to standardization. Tom Slimmon is the 22nd recipient of the **John Jenkins Award**.

Since 1979, more than 250 Canadian Standards Association past or present voting members, or former CSA employees have been given an **Award of Merit**. This honour recognizes leadership in Canadian voluntary standards development, and furthering the purpose of CSA, which is to Make Standards Work for People and Business.

Congratulations to this year's
award winners!

The John Jenkins Award



CSA gets high marks for Member Services

The Canadian Standards Association's annual survey of members shows continuing improvement in the overall satisfaction of Committee Members with the member services provided by CSA.

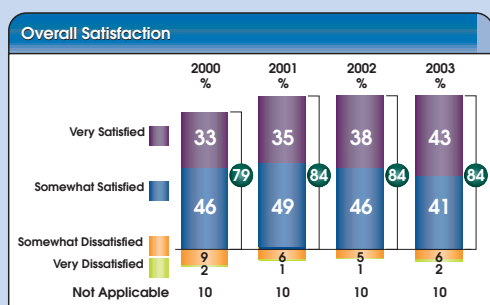
"While the total percentage of Committee Members reporting they are 'satisfied' or 'very satisfied' has remained strong at 84 per cent over the last three years, an increasing proportion of those members are shifting towards 'very satisfied'," says John Maheu, Director, Operations Quality Assurance. The percentage of very satisfied members rose from 35 per cent in 2001 to 43 per cent this year.

Sustaining Member satisfaction also rose from 90 per cent in 2001 to 93 per cent this year, with more Sustaining Members reporting that they were 'very satisfied' with CSA's services.

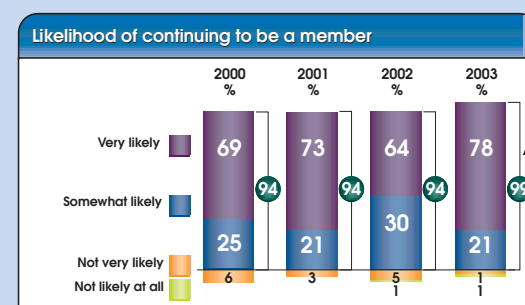
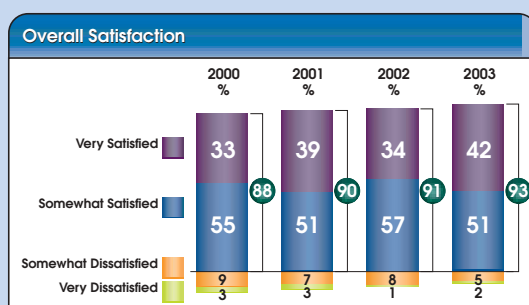
In addition to overall satisfaction, the survey measures satisfaction levels opposite a wide range of service attributes, identifying key areas where CSA will work to better meet member expectations.

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Committee Members



Sustaining Members



CSA Annual Report moves Online

In conjunction with CSA's innovative online services such as Web-based training, Keep Me Informed, and the Online Store, CSA Group has moved its 2002/03 Annual Report to the Web.

This year's report will be solely delivered via the Web and will offer an interactive navigational experience. This strategic step towards online reporting is a first for the group and follows two successful years of award winning annual reports.

"This initiative is part of a move to further showcase CSA's leading edge thinking towards service and is a prime example of how we are constantly driving innovation, while acting in an environmentally conscious manner", said Grant Carter, VP Marketing and Communication, CSA Group.

CSA welcomes you to visit their 2002/03 annual report at: www.csagroup-ar.org

For further information please contact: **Jeff Messinger**, (416) 747-4126, jeff.messinger@csagroup.org

New Edition of IT Equipment Standard

The new edition of CSA's IT equipment standard covers everything from personal computers and bank machines to telecommunications equipment. The updated standard, CAN/CSA-C22.2 No. 60950-1-03, *Safety of Information Technology Equipment*, contains well-defined requirements for equipment connected to telecommunication networks, used in telecommunication central office environments, or connected to CATV and outdoor antennas, etc.

Contact: **Michael Wilson**, (416) 747-2532, michael.wilson@csa.ca or purchase online at www.csa.ca

Ground-breaking standards on cell, tissue and organ transplantation in Canada

Canadian Standards Association has published leading edge management system standards for cells, tissues and organs for transplantation and assisted reproduction.

CAN/CSA-Z900.1 *Cells, Tissues, and Organs for Transplantation and Assisted Reproduction: General Requirements* was the first of six standards published by CSA. The new standards address topics such as record keeping, tracking, screening, retrieval, processing, preservation, and distribution.

"We are very excited to be the first standards development organization to publish standards in this field," says Pat Keindel, President, Standards, CSA. "By

standardizing donation and transplantation management systems that are intended for reference in law, we are taking the first steps to improve and coordinate a national organ and tissue transplantation system."

The CSA standards apply to establishments and individuals involved in transplantation, including tissue banks, transplant programs, laboratories, dental offices, and centres for assisted reproduction. Types of cells, tissues, or organs include: heart tissue (veins, valves), cornea, bone, sperm, embryos, skin, whole heart, lungs, kidneys, liver, intestine, bone marrow, and stem cells.

"These standards will help improve transplantation safety across the country. They are scientifically responsive and the result of a collaborative and

transparent process," says Dr. Paul Dubord, Technical Committee Chair.

In addition to the General Requirements, five specific standards were published in early 2003: *Tissues for Assisted Reproduction*; *Tissues for Transplantation*; *Perfusable Organs for Transplantation*; *Ocular Tissues for Transplantation*; and *Lymphohematopoietic Cells for Transplantation*. The standards are intended as general guidelines on sound management of cells, tissues, and organs being used for transplantation.

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Upcoming EVENTS 2003 FALL & WINTER



CSA LEARNING CENTRE

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

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 Operations
- 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 9002:2000; Implementing ISO 14001; Integrating ISO 9001:2000 with ISO 14001
- The Privacy Code
- Respiratory Protection Services
- Robotics
- Sustainable Forest Management

To register or obtain information about volume 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.

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 toll free at 1-800-463-6727 or, in the Toronto area, (416) 747-4007.

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Readers are welcome to reprint material if CSA is cited as the source. The Canadian Standards Association (CSA) is a membership association serving industry, government, consumers and other interested parties in Canada and the global marketplace. A leading developer of standards and codes, CSA enhances public safety, improves quality of life, preserves the environment and facilitates trade. To help people understand and apply standards, CSA offers information products and training. The Canadian Standards Association is a division of CSA Group which consists of CSA, CSA International for product testing and certification, and QMI for management systems registration.

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New CSA web site improves access to Construction Standards

With approximately 300 construction standards and 120 Technical Committees, the Canadian Standards Association is Canada's leading standards developer in the construction field. Now there's a new way for construction professionals to keep track of CSA's construction-related activities, by visiting the new CSA Construction web site, www.construction.csa.ca

When you visit the new web site, you'll find a description of each CSA Construction standards program area and a listing of CSA standards dealing with concrete, forest products, masonry, wood, offshore structures, building products and systems, plumbing, structural design and welding. Information on technical committee meetings and the status of publications under development, and contact details for CSA Staff are other convenient features of this site.

It also serves as a "portal", with valuable links to other construction organizations.

"Many people have been asking for a site like this," says Mike Mortimer, CSA Program Manager. "We're really pleased to be offering this new service both to CSA's members, and the industry at large."

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www.construction.csa.ca

Address Change FaxBack

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.**

Other readers: Send your changes to **Jeff Messinger, CSA Marketing and Communications, E-mail jeff.messinger@csagroup.org, Phone (416) 747-4126, Fax (416) 747-4292 or the Mississauga office at left.**

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