

Perspectives



CSA



SHAPING



SOLUTIONS



THROUGH



STANDARDS

Collaboration and Consensus-Building

Creating solutions for health care and public safety

The work can be long and hard, but the results of CSA committees speak for themselves: solutions that are the envy of the world.

That's the message members will hear from an illustrious line-up of keynote speakers at the CSA 2004 Annual Conference in Charlevoix, Québec, June 14th to 16th. With a focus on health care and public safety, the conference draws on numerous examples of collaboration and consensus which have yielded landmark standards. It will also explore new territory where the CSA model of doing business and providing timely solutions may be successfully applied to address emerging challenges.

On the health agenda

Four years ago, Health Canada contracted CSA to develop Canada's first management system standards specifying general requirements related to the use of human cells, tissue and organs for transplantation and assisted reproduction purposes. (See related story, *In the Company of Experts*, page 3). The CSA voluntary standards, published last fall, include aspects of safety for potential and actual donors and recipients, personnel, and others who may be exposed to or affected by the transplantation of cells, tissues, and organs. They will enhance the current system in Canada by providing a consistent national framework and will serve as a benchmark for other countries interested in adopting these world-class standards.

Dr. Paul Dubord, MD, FRCS (C), Clinical Professor of Ophthalmology, University of British Columbia and Chair, CSA Technical Committee, says, "These unique standards are scientifically responsive, leading edge, and the result of a collaborative and transparent process." The standards are being promoted to an international audience through the World Health Organization's forum.

The value of CSA solutions to emerging issues was also clearly evident when contaminated medical instruments in certain hospitals highlighted the need for infection control. To complement the CSA Z314 series of national standards, which set out requirements for medical device cleaning, decontamination, and sterilization in health care facilities, CSA published a handbook for infection prevention and control in office-based health care and allied services.

The handbook answers general questions, such as: How do I process an instrument after I have used it on a patient or client? How do I dispose of a contaminated article? How do I store soiled instruments safely until they can be cleaned and sterilized? And what precautions should I take to prevent the spread of infection?

Another new CSA standard covers infection control during construction or renovation of health care facilities, and two related seminars are available through the CSA Learning Centre.

Workplace safety

With more than 100 standards relating to occupational health & safety, CSA has earned a reputation as a premiere OH&S standards organization in North America. Complementing standards that are rigorously reviewed by industry experts, user representatives and regulators, are practical seminars for frontline workers, managers and safety professionals.

Some standards (for example, industrial eye and face protectors) are referenced in federal or provincial legislation and are mandatory in certain jurisdictions; others are voluntary. Standards may also be referenced in labour contracts for the protection of workers and to limit the liability of employers.

Community safety and well-being

CSA's recently released *Guidelines for Spectator Safety in Indoor Arenas* (see related story, page 3) is the latest in a long and distinguished list of standards which enhance community safety and well-being.

From helmets for cycling and ice hockey to children's playspaces and barrier-free design, CSA has been at the forefront of identifying and responding to pressing needs in everyday life. Its model of stakeholder involvement, consensus-building and continuous review and improvement provides a useful model to tackle society's thorniest challenges in health care and public safety.

In this issue

Honour Bestowed
Winners of CSA's
Award of Merit

2
2

In the Company
of Experts
The Puck Stops Here

3
3

Hog Operators
Standards
Harmonization

3
4

Upcoming Events
PM# 40064058

4



CANADIAN STANDARDS
ASSOCIATION

Honour Bestowed

CSA awards the Prestigious John Jenkins Award of Excellence to Ark Tsisserev

Mr. Tsisserev receives this prestigious award for over 20 years of distinguished contributions to CSA, for his extraordinary leadership, sharing his expertise and his passionate support and promotion of the CSA consensus process in the development of electrical codes and standards in national, regional and international forums.

Ark Tsisserev is something of a legend in CSA circles. He's known for many things – for his birth inside a T34 Russian tank during WWII, his penchant for early morning e-mails, and his work on more than 60 CSA standards committees and subcommittees. “Passionate”, “tireless”, “enthusiastic”, “mentorship” and “pursuit of excellence” are some of the words used by his colleagues to describe Mr. Tsisserev's approach to standards development.

Born in the former USSR, Mr. Tsisserev achieved his Doctorate in Electrical Engineering. He emigrated to Winnipeg in the late 1970s, obtained a Masters degree in Engineering and registration as a P. Eng. He worked for the city of



Ark Tsisserev

Winnipeg Water Works Department, and later the Building Inspections Department.

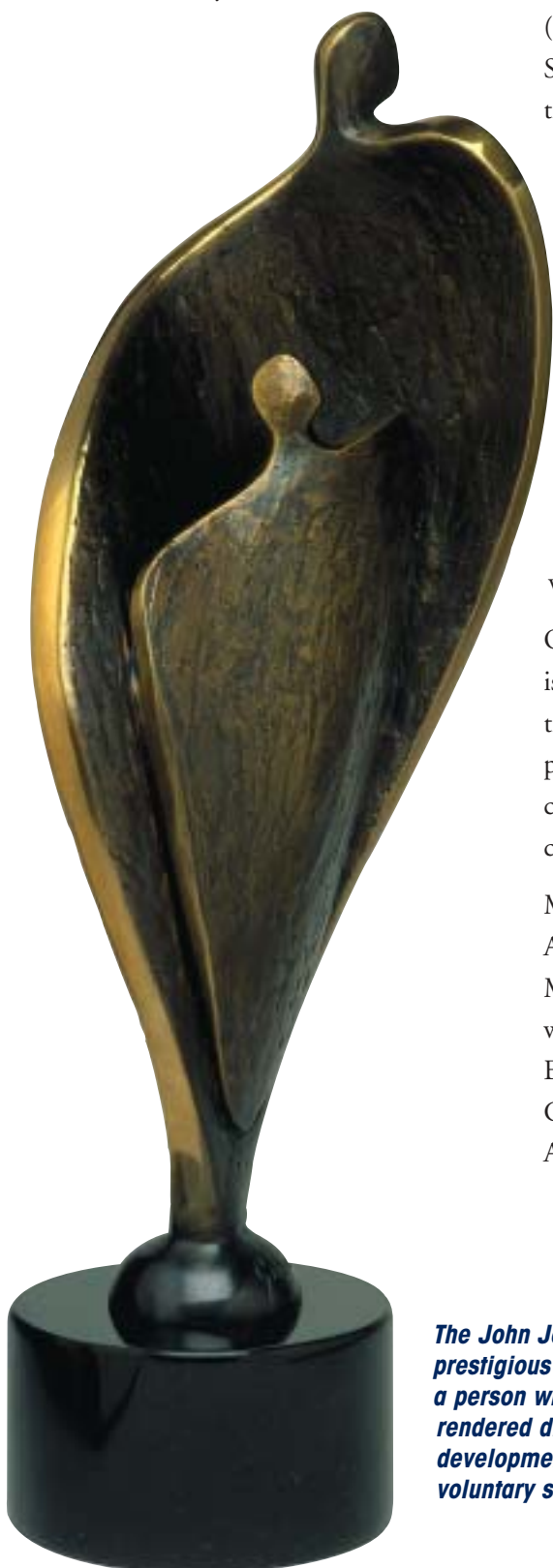
As an avid promoter of harmonization and uniformity, Mr. Tsisserev's international activities include work with the Canadian National Committee of the International Electrotechnical Commission, Electrical Installation Codes of North America, Harmonization of Ampacities for North America, and NFPA 70 for the *National Electrical Code*. He also participates in safety and professional engineering organizations such as the Canadian Advisory Council on Electrical Safety (CACES), the ULC Advisory Council, the Society of Fire Protection Engineers, and the International Association of Electrical Inspectors.

Mr. Tsisserev handles all this, plus his “day job” of Chief Electrical Inspector of the City of Vancouver, with ease, commanding the respect and admiration of his colleagues. He works vigilantly to prevent the standards development process from being tainted by conflicts of interest, giving members ample opportunity to express their viewpoints.

One of his most challenging leadership roles is as Chair of the Technical Committee on the *Canadian Electrical Code, Part I*. His proactive approach and diligence leaves this committee, like all the other committees he chairs, running like a well-oiled machine.

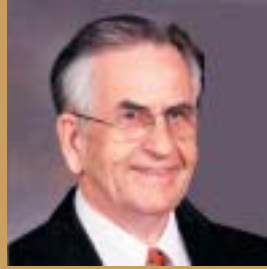
Mr. Tsisserev received a CSA Certificate of Appreciation in 1993 and an Award of Merit in 1994. He has also been honoured with the Association of Professional Engineers and Geoscientists of British Columbia (APEGBC) President's Awards/Professional Service Award in 2000.

The John Jenkins Award is the most prestigious honour bestowed by CSA to a person who is judged to have rendered distinguished service in the development and application of voluntary standards.



Winners of CSA's Award of Merit

The Award of Merit is an honour bestowed by CSA to an individual who is judged to have demonstrated leadership in developing Canadian voluntary standards and who, through technical, administrative, or special standards activities, has advanced the purpose of CSA. This years recipients are:



Mr. G. L. (Gerry) Cornish
Electrical
Ontario



Mr. E. (Elias) Ghannoum
Electrical
Quebec



Ms. S. (Susan) Hadfield
Life Sciences
Manitoba



Mrs. S. (Susana) Katz
Electrical & Gas
British Columbia



Dr. K.T. (Ken) Lau
Built Environment,
Life Sciences & Gas, Alberta



Mr. R. (René) Leduc
Electrical
Alberta



Mr. K. (Keith) Powell
Electrical
Ontario



Mr. J.L. (Jean-Louis) Robert
Electrical
Quebec



Mrs. R. (Ruth) Robinson
Life Sciences
Saskatchewan



Mr. D. (Doug) Scarth
Built Environment
Ontario



Dr. R.E. (Ralph) Southward
Built Environment
Ontario



Ms. S. (Susan) Springthorpe
Life Sciences
Ontario



Mr. G.R. (Gary) Sturgeon
Built Environment
Alberta

In The Company of Experts

Injecting consistency into blood management

In this first of a series of committee profiles, we explore how a landmark standard moved from the identification of a public health and safety need through to collaboration and consensus.

Where does the idea for a standard originate? Almost anywhere: in a product innovation, injury data, a fatal accident, a need to improve efficiency or promote trade. Or, in one case, the 1,250 Canadians who contracted HIV from blood transfusions and tainted blood products during the 1980s.

The formation of the CSA Technical Committee on Blood and Blood Components came about following the Commission of Inquiry on the Blood System in Canada (Krever Commission) and was aided by the Standards and Regulatory Reform Program (SAARP) of Health Canada, which explored how the National Standards System could complement or be used in

place of regulation – a notion that is taking hold in a variety of areas.

Chaired by Dr. Gilles Delage, Vice-President of Medical Affairs at Héma-Québec, the committee had a running start. Health Canada had already initiated an expert working group under his leadership to prepare draft requirements. However, the working group's membership of mainly health care professionals and blood agency representatives had to be broadened to include other major stakeholders in accordance with CSA's balanced matrix policy. Members were added to represent the federal and provincial/territorial governments and a wider range of user and professional associations. Several of the new members were among those who had commented on an earlier draft from Health Canada; the expansion of the committee brought them directly into the development process.

With the Health Canada draft as a seed document, the

committee began to develop a management system standard - one that outlines the structures, policies and procedures that would apply to any organization that collects, processes, stores or administers blood and blood components. The committee met about three times a year, with teleconferences supporting its work. As with all committees, members went through a process of assessing pertinent information and concerns and reaching a consensus of opinion.

Within eight months the committee had a draft ready for public review, and this draft was posted for 60 days on the CSA web site. The public review process generated more than 700 comments. By December 2003 the draft was ready for final ballot.

After two years of hard work, the committee had created a landmark standard – a document that brings together requirements for the collection, storage, transport and transfusion of blood and blood components.

The Puck Stops Here

CSA puts another one in the net! To help reduce the risk of injuries to spectators and non-participants at indoor sporting events, CSA has published a new voluntary standard, CAN/CSA-Z262.7-04, *Guidelines for Spectator Safety in Indoor Arenas*. The new standard includes recommendations for indoor arenas such as board and glass system, safety netting systems, and highly visible warnings throughout facilities.

“With the rapidly evolving speed and intensity of sporting events, there is an increasing risk of serious injury or even death to spectators. This new standard is supported by the Canada Safety Council, endorsed by the Canadian Recreation Facilities Council, and is designed to help prevent injuries at indoor arenas so that spectators can better enjoy Canada's national pastime and other indoor sports,” says Pat Keindel, President, Standards, Canadian Standards Association.



Hog Operators Get First-Ever Environment Management System Standard

Hogs are big business in Canada. According to Statistics Canada, there were 14.6 million of them comprising a \$3.32-billion industry in 2002, one of the country's biggest agricultural sectors.

Many hog operators invest in environmental improvements, but until now, there was no national standard that could help them focus their environmental spending on areas that would achieve significant results.

That has changed with the release of CAN/CSA Z771, *Environmental Management Systems for Hog Operations: Requirements*. A practical tool for continual environmental improvement of hog operations, it's the first national voluntary management system standard of its kind in Canada.

“This standard provides stringent guidelines to plan complete environmental improvements and measure their success,” says Dr. John Ogilvie, Professor Emeritus of Engineering, University of Guelph and Chair of the CSA technical committee. The committee was comprised of 33 experts representing the pork industry, federal and provincial governments, environmental groups and consumers. “Meeting these guidelines should help establish a sense of trust and responsibility between hog operators and other stakeholders,” he adds.

“Responsible environmental management is of critical importance to all Canadians,” says Pat Keindel, President, Standards, CSA. “We're committed to the preservation of the environment and natural resources.” CSA's environmental portfolio now includes over 85 standards and products.

Consistent with the principles of ISO 14001, CAN/CSA Z771 is sector specific. “Hog operators will benefit because considerable legwork has gone into CAN/CSA Z771,” says Kelly Deeton, Project Manager, Environment. “It prescribes significant environmental aspects and objectives relevant to hog operations.”

CSA conducted a pilot study of the standard in draft stage to determine operational feasibility, affordability and “auditability.” Twelve hog operations from across Canada participated. The Standards Council of Canada (SCC) is currently working on a conformity assessment program associated with the new standard. Registrations by third-party auditing organizations, such as QMI, are expected shortly.

Contact: **Kelly Deeton**, (416) 747-4118, kelly.deeton@csa.ca.

Upcoming EVENTS 2004 SUMMER



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

The CSA Learning Centre offers seminars on the following topics:

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- Safeguarding of Machinery (in collaboration with IAPA)
- Respiratory Protection Series *
- Fall Protection Series
- 2002 CE Code Essentials *
- Bonding and Grounding of Electrical Equipment
- CEC/NEC — A Comparison of Requirements *
- Code for Power Press Operation
- Design, Installation and Maintenance of Electrical Equipment in Hazardous Locations
- EMI — Electrical Disturbances
- Infection Control During Construction & Renovation in Healthcare Facilities
- QMI — The ISO 9001:2000 Training Series *
- QMI — The OHSAS 18001 Training Series *
- QMI — The ISO 14001 Training Series *
- QMI — Medical Devices - ISO 13485:2003 - Essentials Course
- QMI — ISO 9001:2000 - Process Auditing Course *
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* available in French and English

To register or obtain information about dates and locations, volume discounts, content, in-house training or other details please call 416 747-4017 in the Toronto area or 1 800 463-6727 outside Toronto, email seminars@csa.ca or visit our Web site at <http://learningcentre.csa.ca>

Standards Harmonization

Learning from CANENA

With the growth of free trade areas around the world, the task of harmonizing standards is both complex and urgent. Yet the experience of CANENA (Council for Harmonization of Electrotechnical Standards of the Nations of the Americas) may well provide a useful model, with lessons that can be applied almost anywhere.

CANENA's members, who represent the electrical industry, provide essential technical expertise into the harmonization process. Also participating are national standards development organizations (SDOs) and trade associations.

Today, more than 30 harmonized standards developed within CANENA have been published; 50 more are under development covering products such as luminaires, flexible cords and cables, residential air conditioning equipment, motors and enclosures to name a few. And while the work to date has involved North America only, CANENA intends to expand and involve nations of Central and South America in the future.

"Achieving the benefits of harmonization requires effective collaboration and communication," says CSA Program Manager Suzanne Alfano, "and this is where the CANENA model is particularly instructive." Its bylaws embrace a process, agreed to by the SDOs, which includes key stakeholders and is highly participatory. CANENA also accommodates legitimate national differences, both in the content of harmonized standards and in the way they are published.

For example, CANENA does not publish standards itself.

Seed documents emanating from CANENA are submitted to the participating SDOs within each country for review and approval in accordance with their nation's accredited standards development process. And, to provide for stability in harmonization work, SDOs agree to jointly process any needed revisions to the harmonized standard.

"We've had to consider carefully the meaning of identical versus equivalent standards," says Suzanne, "and when to use an international standard as a base document for regional harmonization, and when to develop a regional standard based on existing North American standards.

To reduce the number of national differences in harmonized standards, we limit them to those that relate to climate or technical infrastructure."

Other questions arise with a constantly changing landscape. For instance, how does one maintain or revise national standards while a CANENA harmonization project is underway? Under CANENA, SDOs have agreed to limit revisions to urgent safety issues while harmonization proceeds.

How does one resolve negative ballots in a timely fashion? Right now, CSA requests its committees to review harmonized drafts during development. They can help to then identify potentially contentious issues early on and seek resolution, expediting CANENA's work.

"Even after 12 years since CANENA's formation, we continue to encounter challenges," adds Suzanne. "But we're also creating solutions that will serve the needs of people and businesses within the global marketplace."

Perspectives

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