I want to thank you for the invitation and the opportunity to talk about CHES and the Canadian Healthcare Industry.
FCIA - Fire-Stop Contractors International Association Conference and Trade Show

J.J. Knott
CHES – Past President

Canadian Healthcare Engineering Society
Canadian Healthcare Engineering Society

Mission
To - Build Member Expertise

Vision
To - Promote Excellence through Partnerships, Innovation, Accountability and Education

Values
Respect - Teamwork - Knowledge - Accountability
Who Is CHES

- National Professional Organization.
- Founded in 1980.
- Over 1000 members from coast to coast.
  - With 7* Provincial Chapters.
- Membership is comprised of:
  - Hospital Maintenance and Operations Leaders.
  - Healthcare Administration Leaders.
  - Planners, Builders & Designers.
Existing CHES Chapters

B.C. Alta. Sask Man. Ont.

Potential Future Chapters

Newfoundland & Labrador.

Not Quebec.

Maritimes.
CHES Committee Structure

- Governance Committee.  *Executive Liaison – President.*
- Professional Development Committee. ***
  - Healthcare Standards Sub-Committee.
  - MedGas Technical Support Sub-Committee.  *Exe. – Vice-P.*
- Partnership and Advocacy Committee.  *Executive Liaison – Past - P.*
- Communications Committee.  *Executive Liaison – Secretary.*
Benefits of CHES - Membership

• Canadian Healthcare Facilities Journal.

• Website Access.

• Educational Opportunities.

• Participation in Standards Development and Advocacy. (CSA, Building Codes, NFPA) ****

• Partnerships with Affiliated Organizations. ASHE, IFMA, BOMA, CCHL, IPAC, CCGHC, etc. ****
Canadian Healthcare Facilities Journal - Quarterly CHES Official Publication

• Chapter Reports.

• CSA Corner.

• Themed Editions.

• Quarterly Issues.

• Announcements, Updates and member input.
Website Offerings

• Free Access to Top 10 CSA Standards.

• Member Forum.

• Career Opportunities. (Nation wide job postings)

• Resource Links.

• Online Membership Directory.

• Back Issues of Journal.
Education and Professional Development Opportunities.

- Online Med-Gas Course.
- Canadian Healthcare Construction Course. (CanHCC)***
- Webinars.
- Resource Links. (CSA Standards and Courses)***
- National & Chapter Conferences.
- CCHFM Certification Process. ****
Future Conferences

• 2015 – Edmonton, Alberta.

• 2016 – Vancouver/Whistler, British Columbia.

• 2017 – tentative – St. John’s, Newfoundland.

• 2018 – tentative - Saskatchewan.
one dot represents the location of one enumeration area
What to Expect When Working in the Canadian Healthcare Industry!

- I am here to help you understand the condition of our existing facilities and to prepare you for work in the Canadian Healthcare Industry and to support the Canadian Firestop Contractors.

- I’m not a Fire Code and Standards expert but I have worked in Health Care for a long time and I hope to pass along a feel for what you will come up against.

- Has anyone got experiences they would like to share?
What’s important to our Healthcare - Facility Managers

•  Infection Control.
•  Patient Privacy and Confidentiality.
•  Smoke Control and the Maintenance of the Integrity of Fire Separations, Fire Dampers, and Life Safety Systems.
•  Health and Safety of Patients, Staff, and Public
•  Value for Money.
Healthcare Facilities at a Glance

Hospitals

• Older Construction – Wings dating back to 1925-35 & 1955-65, and some of even older vintage.
• Not unusual to see mechanical systems still in place from the mid fifties and sixties.
• Smoke Control Systems (if they exist), Fire Separations, and Fire Dampers require constant maintenance.
• Fire Sprinkler Systems often lacking!
Healthcare Facilities at a Glance (Cont’d)

Long Term Care

• Some Older Construction – Updating underway with Class A,B,C,D funding system in place.
• Mechanical systems are newer but sometimes lack controls.
• Smoke Control Systems (if they exist), Fire Separations, and Fire Dampers require constant maintenance.
• Renewed emphasis on Fire Suppression/Sprinkler Systems.
• Less Internal Technical Knowledge and Support……..Head Office Model
Healthcare Facilities at a Glance (Cont’d)

Clinics

- Mostly Newer Construction.
- Mechanical systems are newer but sometimes lack controls.
- Smoke Control Systems (if they exist), Fire Separations, and Fire Dampers require constant maintenance.
- Rely a lot on local trades and custodian style maintenance.
Healthcare Facilities at a Glance - Purchasing

Hospitals
- Comprehensive RFP processes
- Group purchasing – preferred vendor opportunities

Long Term Care
- Head Office opportunities
- Associations - OLTCA and ONPHASS

Clinics
- Some Head Office opportunities but mostly small scale
Healthcare Facilities at a Glance - Compliance

Hospitals

• Higher level of authority (Fire Marshal) now moving to local level of authority (Fire Departments)
• Catching up – fire damper inspections
• Fire separation integrity? (Have seen Swiss cheese)
• Years of renovation, re-wiring, med-gas, and mechanical work
• Just getting caught up in some areas then along came the ‘cable guys’
• Interstitial space is still a nightmare
• Sprinkler Systems Lacking and not enforced (Old life safety system reports ignored)
Healthcare Facilities at a Glance – Compliance (Cont’d)

Long Term Care
• Compliance officers and local authority focus
• Push to upgrade facilities
• Some CMHC (financer) influence to upgrade

Clinics
• Scattered approach to compliance
Who, What is CSA
The Canadian Standards Association

- CSA is a Standards Development Organization (SDO) accredited both in Canada and the U.S.

- This accreditation acknowledges they comply with a specific set of accreditation criteria.

- As a result, CSA standards are recognized around the world for their balance, technical superiority, and ability to meet the needs of industry, regulators, manufacturers and consumers.

- Accreditation - Standards Development “Is what they do”.
CSA in Canada

• CSA - has the largest subject area recognition of all the SDOs (Standards Development Organizations).

• Accredited by the Standards Council of Canada (SCC), as an organization that co-ordinates Canada’s National Standards System.

• CSA maintains their accreditation by developing consensus standards that adhere to the requirements established by the SCC.
Standards to Familiarize Yourself With


- CSA – Z 317.2  Special Requirements for Heating Ventilation and Air Conditioning (HVAC) systems in Healthcare Facilities.
Getting Started

• Mobilization to site needs to be very coordinated.

• Space is at a premium so plan site storage/containerization of materials.

• Supply insurance and safety information, details on materials and methods to be used.
Planning & Coordination of Project

• Meet with the Multi-Disciplinary Team to coordinate work of project—especially important in clinical areas.

• Meet with different authorities to achieve pre-approval of project details.

• Consider best possible work schedules. Noise and interruption of services are big considerations. Shift work?
Planning & Coordination of Project (Cont’d)

• Key players will be Project Manager, Clinical Directors, Occupational Health, and Infection Control.

• Outside authorities will be Building Department, Ministry of Labour, Fire Authorities, Engineers and/or Life Safety Consultants, Environmental Authority, host of others.
Health and Safety Concerns

• Health and Safety issues to consider:
  • Fall arrest
  • Confined Space
  • Public Safety and Routing of Traffic
  • Infection Control ***
  • Asbestos Abatement
  • Hazardous Materials
  • Mold Abatement ***
Healthcare Privacy and Confidentiality Compliance

The Challenge

• With the introduction of the Health Insurance Portability and Accountability Act (HIPAA) Omnibus Rule, the days of voluntary information security compliance have passed for both covered entities and business associates.

• For the first time, Business Associates and their Subcontractors are directly liable for HIPAA compliance.
Healthcare Smoke Control, and the Maintenance of Fire Integrity Ratings

• National Fire Code of Canada.

• National Fire Protection Association (NFPA) Codes & Standards

• National Building Code (NBC)

• Authority having Jurisdiction (AHJ).

• Healthcare Facility Priorities.
Preparing for the Canadian Healthcare System

Canadian Healthcare Construction Certificate (CanHCC) will

• Help you - Identify needs and expectations of the Canadian Healthcare facility construction and maintenance process.
• Describe - Methods to integrate “quality control” program into your Canadian Healthcare Construction process.
• Describe - How to Identify and address our healthcare risk management issues to reduce liability.
• Identify - best practice and communication strategies necessary to demonstrate competencies and the understandings of issues.
Preparing for the Canadian Healthcare System

CanHCC Brochure
Preparing for the Canadian Healthcare System

- Infection Control course through CSA
- CCHFM designation (CHES)
- Consultation prior to start of project
Preparing for the Canadian Healthcare System

What you should do to position yourself to Provide Services.

Provide a Suite of Services

- Like - Barrier/Penetration labeling Services.
- Like - Barrier Integrity Assessment Services.
- Like - Barrier Management Program Services.
- Like - Firestop Services.
- Like - Fire Extinguisher Inspection Services.
- Like - Mechanical Insulation Services.
- Like - Fire Damper drop testing Services.
- Like - Fire rated access door installation Services.
- Like - Asbestos Abatement Services.
Value for Money.

“Definition”

The satisfaction derived from every purchase of goods or services in relation to the sum of money spent. Value for money is not solely based on the minimum purchase price but also on the maximum efficiency and effectiveness of the purchase.

• Understand your customers needs.

• Build Relationships with your customers.

• Provide value.
Healthcare Smoke Control, Fire Integrity Ratings

Where do Onion Sacks fit in Fire Barrier Classification Scheme

• Fire Barrier Device.
• Fire Barrier Sealant
• Fire Barrier Packing.
• Fire Barrier Composite.
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Albuquerque, NM.

Thank You
Canadian Healthcare Engineering Society
www.ches.org