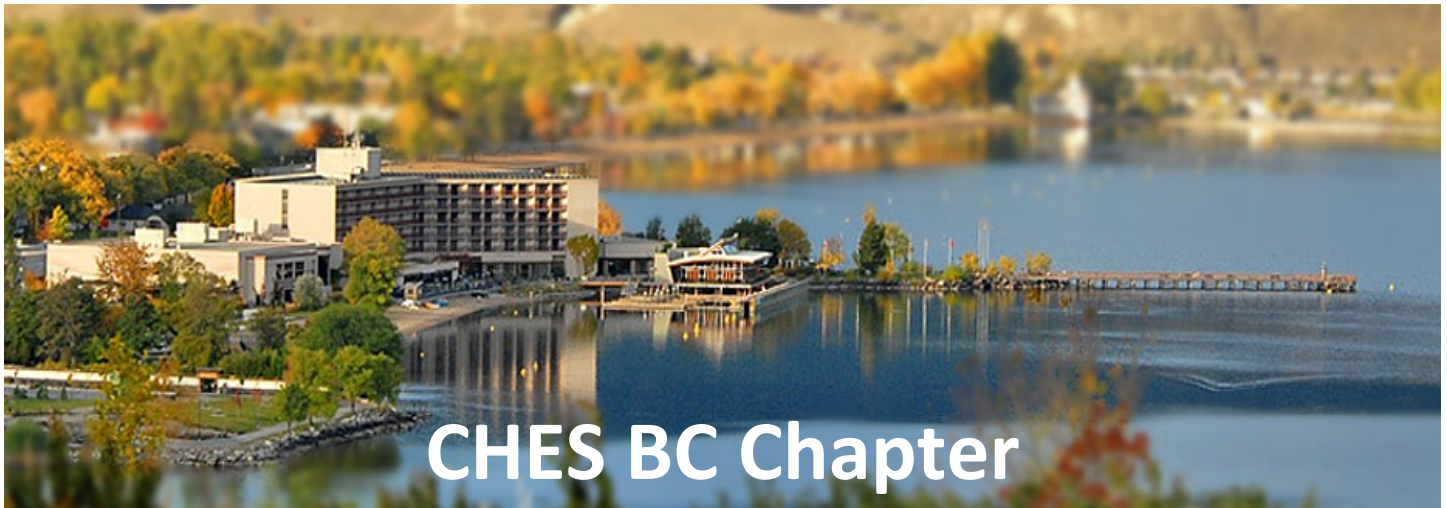


# CHES SCISS

Canadian Healthcare  
Engineering Society

Société canadienne d'ingénierie  
des services de santé

**Transforming Healthcare's Aging Infrastructure;  
Facility & Workforce**



## **2017 Trade Show & Education Conference**

**@ *Penticton Trade & Convention Centre***

**May 28-30, 2017**

**FINAL PROGRAM - *Sponsored by:***



**BC Hydro**

Power smart



## WELCOME

On behalf of the CHES BC 2017 Planning Committee, I would like to welcome you to Penticton BC, and the 2017 CHES Annual Education Conference and Trade Show. Our Theme for this year's conference is **"Transforming Healthcare's Aging Infrastructure; Facility and Workforce"** and the Conference Education Committee has put together a fantastic educational program that covers all the entities of Healthcare.

We are truly fortunate once again to have a sold out Tradeshow and a full Sponsorship Program. The ongoing support given by the Sponsors and Exhibitors, many of whom are long-time supporters, contribute greatly to the success of our conference. I encourage all CHES Members, Grassroots Attendees and Visitors to come out and visit with the Exhibitors and Sponsors that support CHES and take back to your facilities the knowledge of the latest technologies, innovations, support connections and equipment offerings presented.

I trust that you will enjoy the conference and the surrounding beauty that Penticton offers and on behalf of the 2017 Conference Planning Committee, I thank you for attending the 2017 CHES Annual Education Conference and Trade Show and for your continued support in making CHES BC a strong chapter.

Looking ahead, our 2018 CHES Conference will be in Whistler, June 10- 12.

Norbert Fischer

Chair, 2017 BC Conference Planning Committee

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**CHES BC Conference - Organizing Committee**

**CHAIRPERSON:**

**Norbert Fischer**, CHES BC Member, Manager of Plant & Maintenance Services, East Kootenay, Interior Health

**COMMITTEE MEMBERS:**

**Arthur Buse**, CHES BC Member, Director of Practice, Architect AIBC, Boldwing Continuum Architects Inc.

**Steve McEwan**, CHES BC Member, Director, Plant Services, Interior Health

**Rick Molnar**, CHES BC Member, Manager, Facilities Maintenance & Operations, Ridge Meadows Hospital

**Mark Swain**, CHES BC Member, Senior Associate, Rocky Point Engineering

**Sarah Thorn**, CHES BC Member, Project Mgr., Capital Projects, Lower Mainland Facilities Management

**Ken Van Aalst**, CHES BC Member, Director, Facilities Maintenance, Energy & Environmental Sustainability, Northern Health

**Mitch Weimer**, CHES BC Member, Director, Facility Maintenance & Operations, Fraser Health

**Coordinator(s): Wendy MacNicoll** – CHES BC Conference Coordinator

**Linda Williams** – CHES BC 2018 Conference Coordinator



*Industrial Electric Mfg*

**THANK YOU to the Grassroots Program Sponsor:**

The Grassroots Program promotes & supports the ability for Health Authority front-line/decision making staff to attend the CHES BC Chapter Conferences.



## General Conference Information

**Exhibitor Registration Desk Hours:** SUNDAY, May 28 12:00 – 17:00

**Delegate Registration Desk Hours:** SUNDAY, May 28 15:00 – 18:00



ALL attendees are required to wear their name badges at all times during the conference & related functions (including the banquet, happy hour, refreshment breaks, etc.)



Please turn off cell phone ringers during all Education Sessions.

**Social Events & Meals:** Applicable tickets for meals & social events will be in your registration package and will be collected at each function.



**Delegate Registration Gift** sponsored by:

## Exhibitor Trade Show Hours

TRADESHOW FLOOR = PENTICTON TRADE & CONVENTION CTR

SUNDAY, MAY 28		
18:00 to 19:30	Opening Wine & Cheese Reception	TRADESHOW FLOOR
MONDAY, MAY 29		
09:30 to 10:30	TRADE SHOW & Refreshment Break	TRADESHOW FLOOR
12:30 to 14:30	LUNCH ON TRADE SHOW FLOOR	TRADESHOW FLOOR
TUESDAY, MAY 30		
10:00 to 11:00	TRADESHOW & Refreshment Break	TRADESHOW FLOOR
12:00 to 13:45	LUNCH ON TRADE SHOW FLOOR Conference Close & Prize Draws	TRADESHOW FLOOR

### PARTICIPATE IN THE PASSPORT PROGRAM

SPONSORED BY:



*Delegates/Grassroots participants:* Engaging with Exhibitors is encouraged throughout the Tradeshow. As you visit Exhibitor booths, you will be given an entry form which you can fill out and drop in the draw barrel located at TREMCO's booth

#62 to be entered for door prizes!

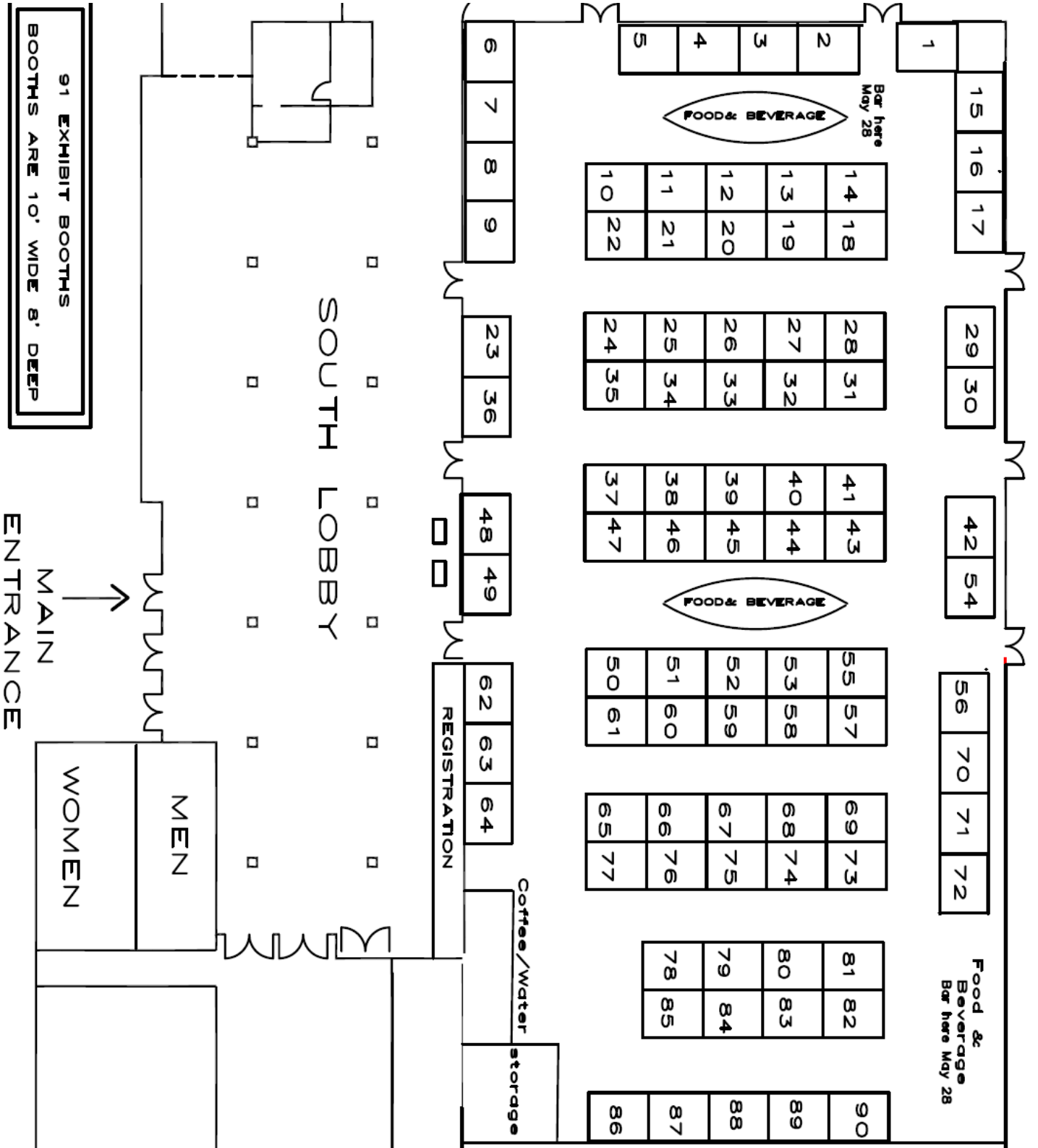
***See instructions/insert in your registration package***

## CONFERENCE @ A GLANCE

ALL EVENTS OTHER THAN Monday Happy Hour & Banquet Dinner are held at the Penticton Trade & Convention Centre (PTCC)

SUNDAY, May 28		LOCATION	SPONSOR
12:00 to 17:00	<i>Exhibitor</i> Move-in / Setup Booths on tradeshow floor	PTCC	
	<i>Exhibitor</i> Check-in / Pkg Pickup	PTCC	
15:00 to 18:00	<i>Delegate</i> Check-in / Pkg Pickup	PTCC	PROACTIVE HAZMAT
18:00 to 19:30	<b>Opening Wine &amp; Cheese Reception on Tradeshow Floor</b> <i>*nametags req'd – in registration package at check-in*</i>	PTCC Tradeshow	CHEM-AQUA
MONDAY, May 29		LOCATION	SPONSOR
07:15 to 08:15	<b>Breakfast for Delegates &amp; Exhibitors</b> <i>*nametags req'd</i>	PTCC Foyer	Applied Engineering
08:15 to 09:30	<b>Opening Ceremonies:</b> Norbert Fischer, CHES BC Conference Chair <b>Keynote Address:</b> Chris Mazurkewich, President & CEO of Interior Health	SALON C	Honeywell
09:30 to 10:30	<b>TRADE SHOW &amp; Refreshment Break</b> <i>*nametags req'd</i>	Tradeshow	Cullen Diesel Power
10:30 to 11:30	<b>Session 1:</b> Digital Transformation In Existing Healthcare Facilities <b>Speakers:</b> Marco Buccini, Thano Lambrinos, Robert Barnes	SALON C	National Hydronics Group
11:30 to 12:30	<b>Session 2A:</b> Managing Critical Infrastructure and Assets <b>Speakers:</b> Valentina Dabic, BC Hydro	SALON C	Piller Power Systems Inc.
	<b>Session 2B:</b> Heat Recovery Retrofits For Existing Care Facilities <b>Speaker:</b> Chris Goodchild, Jamie Bardsley	Mtg Rm 1	Cash Acme/SharkBite
12:30 to 14:30	<b>TRADESHOW &amp; LUNCH</b> <i>*nametags req'd*</i> <i>*PASSPORT PRIZE DRAW*</i>	Tradeshow	RCABC
14:30 to 15:30	<b>Session 3A:</b> Clinical Planning for Healthcare Projects <b>Speaker:</b> Cathy Massey & Kelly Duke	SALON C	SNC Lavalin
	<b>Session 3B:</b> Affordances Of Online- Infection Control During Construction, Renovation & Maintenance Course For Healthcare Facilities Professionals <b>Speaker:</b> Tahir Joseph & Marc Dagneau	Mtg Rm 1	Envirosafety
15:30 to 16:00	<b>CHES AGM</b> – All Exhibitors & Delegates who are CHES Members are encouraged to attend <b>*COMP BEV TICKET TO ATTENDEES*</b> <b>CHES BC CHAIR:</b> Steve McEwan	SALON C	
17:00 to 18:00	<b>HAPPY HOUR @ Lakeside Hotel</b> <i>*nametags req'd</i>	LAKESIDE HOTEL	Class 1
18:00 <i>*approx. 4 hrs</i>	<b>PRESIDENTS BANQUET &amp; ENTERTAINMENT</b> Entertainer: NEARLY NEIL <b>** Tickets must have been purchased in advance &amp; must be presented upon entrance to the Banquet Dinner **</b>	BALLROOM FOYER & GRAND BALLROOM	Johnson Controls
TUES, MAY 30		LOCATION	SPONSOR
07:15-08:00	<b>Breakfast for Delegates &amp; Exhibitors</b> <i>*nametags req'd</i>	PTCC FOYER	WSP Canada Inc.
08:00-09:00	<b>Session 4A:</b> How To Design A Hospital That Does Not Feel Like One <b>Speaker:</b> Kirsten Reite	SALON C	CGC Inc.
	<b>Session 4B:</b> Quantifying Electrical Reliability Risk <b>Speaker:</b> Shawn Balding, Schneider Electric	Mtg Rm 1	Camfil Canada
09:00-10:00	<b>Session 5A:</b> Disruptive Change To Re-Imagine The Design, Renovation And Operation Of Existing Healthcare Facilities <b>Speaker:</b> Kristin Moore	SALON C	DIRTT Environmental Solutions
	<b>Session 5B:</b> Heat Recovery And Heat Pump Retrofits - Facilitating The Clean Energy Transition In Existing Buildings <b>Speaker:</b> Tom Martin	Mtg Rm 1	CANNEPP
10:00-11:00	<b>TRADESHOW &amp; Refreshment Break</b> <i>*nametags req'd*</i> <i>*PASSPORT PRIZE DRAW*</i>	Tradeshow	Fortis BC
11:00-12:00	<b>Session 6A:</b> Light Gage Steel Computer Assisted Technology In Future Healthcare Facility Construction <b>Speaker:</b> Daniel St-Gelais	SALON C	Boldwing Continuum Architects Inc.
	<b>Session 6B:</b> Engineering Security & Technology Systems for Hospitals <b>Speaker:</b> Victoria Walsh	Mtg Rm 1	Tippet Richardson
12:00-13:00	<b>TRADESHOW &amp; LUNCH</b> <i>*nametags req'd</i>	Tradeshow	Swisslog
13:00-13:45	<b>CONFERENCE CLOSE:</b> <i>*PASSPORT PRIZE DRAW*</i> <i>*EXHIBITOR PRIZE GIVEAWAYS</i>	Tradeshow	Swisslog

# Trade Show Booth Floor Plan





## CHES BC 2017 CONFERENCE Exhibitor List & Booth #

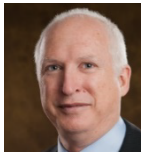
BOOTH #	EXHIBITOR (alpha order)	BOOTH #	EXHIBITOR (alpha order)
86	4th Utility Inc.	82-83	Houle Electric
78	Abatement Technologies	15	HSL Automation.com
29	AIR LIQUIDE HEALTHCARE	46	HVAC Systems & Solutions Ltd
48	Amico Corporation	17	Hy-Line Sales Ltd
76	Armstrong World Industries	56	IEM Industrial Electric Mfg. (Canada) Inc.
7	ASCO Power Technologies Canada	33	IPAC CHEMICALS LTD.
61	Austco Communication Systems	58	IPEX
2	BELFOR property Restoration	50	Johnson Controls Canada
87	Breathe Easy Duct Cleaning Ltd.	69	KONE Inc
39	Buckwold Western	64	Logical Solutions
34-35	Canadian Engineered Products	85	Marathon Institutional Products
30	Cascadia Energy Ltd.	79	McGregor Hardware Distribution
18-21	Centura	71	Modern PURAIR - Aero Seal
5	CGC Inc.	16	Nalco Water
47	Chem-Aqua, Div. of NCH Canada Inc.	84	National Floor Covering Association
49	Class 1 Inc.	42	Paladin Security Systems Ltd.
66	Clean Air Services	14	Precise ParkLink Inc.
40	Community Fire Prevention Ltd.	43	Proactive Hazmat
28	Cool Air Rentals Ltd	13	Reliable Controls
65	Cool King Refrigeration Ltd.	10	Reliance Worldwide Corporation (Canada) Inc.
44	Cullen Diesel Power Ltd.	59	Reyco Sales Ltd.
90	Cummins Sales and Service	55	Roofing Contractors Association of BC
12	CuraFlo of British Columbia Ltd.	88-89	Schneider Electric
80	Current, powered by GE	8	Smillie McAdams Summerlin Ltd.
6	D.G. MACLACHLAN LTD	81	Specified Technologies Inc.
27	DDC Dolphin	73	Spirax Sarco Canada
26	Eaton Industries (Canada) Co.	68	Steam Specialty Sales
31	EI Solutions	77	STERIS Canada, Inc.
9	Emona Sales Ltd.	60	Stoncor Group
24-25	Envirosafety Confined Space Safety Equipment Inc.	53	Swisslog Healthcare
67	Enviro-Vac Division of Paragon Remediation Group	70	Tandus Centiva (Tarkett)
1	Equipco Ltd.	22	Terracom Systems Ltd
54	Erv Parent Co. Ltd.	63	The Filter Shop
41	ESC Automation Inc	57	Thomson Power Systems
74	Finning (Canada)	72	Trane
11	Forbo Flooring Systems	62	Tremco Roofing & Building Maintenance
52	FortisBC	51	Tyco Integrated Fire & Security
37	Garland Canada Inc.	32	Victaulic
4	Genesis Integration	23	WESCO Distribution Canada LP
38	Genesis Restorations Ltd.	3	Westpoint Sales Inc.
36	Grundfos Canada Inc.	75	Willis/DuPont, c Corian®
45	Honeywell		

**CHES BC Chapter Annual Conference & Trade Show Full Program**

**ALL EVENTS (except Monday Happy Hour & Gala Banquet) are at the PENTICTON TRADE & CONVENTION CTR.**

SUNDAY, May 28		LOCATION	SPONSOR
12:00 to 17:00	<i>Exhibitor</i> Move-in / Setup Booths on tradeshow floor	PTCC	
	<i>Exhibitor</i> Check-in / Pkg Pickup	PTCC	
15:00 to 18:00	<i>Delegate</i> Check-in / Pkg Pickup	PTCC	<i>Proactive Hazmat</i>
18:00 to 19:30	<b>Opening Wine &amp; Cheese Reception on Tradeshow Floor</b> <i>*nametags mandatory – in registration pkg at check-in*</i>	Tradeshow floor	<i>Chem-Aqua</i>

MONDAY, May 29		LOCATION	SPONSOR
07:15 to 08:15	<b>Breakfast for Delegates &amp; Exhibitors</b> <i>*nametags mandatory*</i>	PTCC Foyer	<i>Applied Engineering</i>
08:15 to 09:30	<b>Opening Ceremonies – Welcome Address</b> <i>Norbert Fischer, Conference Chair, CHES – BC Chapter</i> <b>KEYNOTE Speaker:</b> Chris Mazurkewich, President & CEO of Interior Health	SALON C	<i>Honeywell</i>



The Changing Face of Healthcare

Projected demographic and population changes, the trend to greener buildings, multipurpose buildings, combined with accelerating new technology – what does this mean in terms of designing healthcare infrastructure?

09:30 to 10:30	<b>TRADE SHOW &amp; Refreshment Break</b> <i>*nametags mandatory*</i>	Tradeshow floor	<i>Cullen Diesel Power</i>
10:30 to 11:30	<b>Session 1: Digital Transformation In Existing Healthcare Facilities</b> <i>Speakers: Marco Buccini, Thano Lambrinos, Robert Barnes</i>	SALON C	<i>National Hydronics Group</i>



We'll explore the current state of digital infrastructure in existing healthcare facilities and discuss the new direction of building system convergence and interoperation in hospitals. We'll identify a pragmatic approach for facility managers to retrofit existing facilities, with the ultimate goal of transforming the facility from a traditional hospital into a digital hospital. We'll also explore how the benefits can offset the costs, and all of the features and benefits to the facility operator, staff, and patient care & the patient experience. Finally, we'll share real world examples of built and operational digital hospitals.

11:30 to 12:30	<b>Session 2A: Managing Critical Infrastructure and Assets</b> <i>Speakers: Valentina Dabic, BC Hydro</i>	SALON C	<i>Piller Power Systems Inc.</i>
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BC Hydro will be sharing with the CHES audience how it manages its critical infrastructure and assets in a challenging world of budget constraints and limited resources. Learn how BC Hydro has been improving its operational systems and electrical grid by leveraging its capital upgrade program. Specific examples will be shared in the Healthcare environment and members will get a better understanding of the strategies BC Hydro uses to deliver on this challenging mandate.

	<b>Session 2B: Heat Recovery Retrofits For Existing Care Facilities</b> <i>Speaker: Chris Goodchild &amp; Jamie Bardsley</i>	MTG Rm 1	<i>Cash Acme/Sharkbite</i>
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Facility managers often face significant barriers to upgrading aging HVAC infrastructure. Barriers to upgrade include lack of funding, or lack of management support to prioritize the work. By incorporating an energy efficiency component to the project, it can dramatically improve the likelihood that the project will proceed as the energy and greenhouse gas (GHG) savings provide strong motivators that overcome both of these barriers. During this presentation, we will show facility managers, energy managers, building operators, contractors and engineers how they can reframe the story to see aging infrastructure as an opportunity rather than a burden to overcome. Through a series of case studies where SES and Trane have a successful track record of envisioning these types of projects, implementing them on budget, and measuring the savings outcomes, the presenters will show how effective this approach can be.



MONDAY, May 29...cont'd		LOCATION	SPONSOR
12:30 to 14:30	LUNCH ON TRADE SHOW FLOOR <i>*nametags mandatory*</i>	Tradeshow Floor	RCABC
14:30 to 15:30	<b>Session 3A:</b> <i>Clinical Planning for Healthcare Projects</i> <b>Speaker:</b> <i>Cathy Massey &amp; Kelly Duke</i>	SALON C	SNC Lavalin



There is work underway to develop a document outlining the main similarities and differences in the role of clinical planners. During projects there is often role confusion between facilities and operations clinical planners as they share the same title. There are different deliverables on any project for these two roles. This presentation will outline the similarities, differences, key activities, and deliverables that can be expected of these individuals on any capital project.

<b>Session 3B:</b> <i>Affordances Of Online- Infection Control During Construction, Renovation &amp; Maintenance Course For Healthcare Facilities Professionals</i> <b>Speaker:</b> <i>Tahir Joseph &amp; Marc Dagneau</i>	MTG Rm 1	Envirosafety
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This presentation will introduce the comprehensive infection control training model developed for facilities personnel in the Lower Mainland. Most of the discussion will be focussed on a newly developed eLearning course that is part of our comprehensive training model. The presentation will showcase the eLearning course and the benefits of providing the right training at the right time, while catering to different learning styles to achieve a positive learning experience. Other anticipated benefits of eLearning and the comprehensive training program include a standardized understanding and application of Z317.13 across all sites in the LM.

15:30 to 16:00	<b>CHES AGM – All Exhibitors &amp; Delegates who are CHES Members are encouraged to attend</b> <b><i>*COMPLIMENTARY BEVERAGE TICKET to all attendees*</i></b>	SALON C	
17:00 to 18:00	HAPPY HOUR on Tradeshow floor <i>*nametags mandatory*</i>	PENTICTON LAKESIDE RESORT BALLROOM FOYER	<i>Class 1</i>
18:00 (duration approx. 4 hrs)	<b>PRESIDENTS BANQUET &amp; ENTERTAINMENT</b> <i>Entertainer: NEARLY NEIL</i> <b><i>** Tickets must have been purchased in advance &amp; must be presented upon entrance to the Banquet Dinner **</i></b>	PENTICTON LAKESIDE RESORT GRAND BALLROOM	<i>Johnson Controls</i>

**Be sure to purchase your Monday evening banquet tickets ahead of time to ensure a seat at the fantastic buffet dinner & then sit back and enjoy...**

## Bobby Bruce's

World-Class

Tribute to Neil Diamond

Nearly  
NEIL

TUESDAY, May 30		LOCATION	SPONSOR
07:15 to 08:00	Breakfast for Exhibitors & Delegates <i>*nametags mandatory*</i>	WCC Foyer	WSP Canada Inc.
08:00 to 09:00	<b>Session 4A:</b> <i>How To Design A Hospital That Does Not Feel Like One</i> <b>Speaker:</b> <i>Kirsten Reite</i>	SALON C	CGC Inc.
	This presentation will discuss how we can create better healthcare spaces at a time when aging healthcare facilities are in desperate need of renewal. Although design is often sidelined by hospitals in the face of fiscal challenges, it can have a meaningful impact on user experience and ultimately patient health. This presentation will explore a number of topics that we have encountered (ascertained or observed) through our work on healthcare projects, including the recently completed \$127m Chinook Regional Hospital, the Child and Adolescent Psychiatric Short Stay Unit (CAPSU) at Surrey Memorial Hospital, Carlile Youth Concurrent Disorders Unit at Lion's Gate Hospital, and Copeman Health Care Centre.		
	<b>Session 4B:</b> <i>Quantifying Electrical Reliability Risk</i> <b>Speaker:</b> <i>Shawn Balding, Schneider Electric</i>	MTG Rm 1	Camfil Canada
	The Healthcare industry relies upon the delivery of safe and reliable power to all aspects of their organisation. Critical Power delivery is required to ensure patient safety and comfort. Two major concerns affecting the growth of risk are the aging infrastructure and the retirement of qualified personnel who normally maintain the equipment. This is particularly true in electrical and power distribution and protection. This session looks at a systematic approach to assessing and mitigating reliability risks in electrical distribution systems ensuring critical power is safely delivered to the right places at the right time.		
09:00 to 10:00	<b>Session 5A:</b> <i>Disruptive Change To Re-Imagine The Design, Renovation And Operation Of Existing Healthcare Facilities</i> <b>Speaker:</b> <i>Kristin Moore</i>	SALON C	DIRTT Environmental Solutions
	Technology is driving industry-wide change in how we approach healthcare construction, including project communication; design and renderings; costing and scheduling; and space planning beyond immediate needs. What does this mean for renovation of existing healthcare facilities, and how does a change in the behaviours of construction impact the traditional spending model ultimately affect the patient experience? DIRTT Healthcare Director Kristin Moore takes a practical and informative look at manufactured interior construction and its impact on renovation in existing healthcare infrastructure.		
	<b>Session 5B:</b> <i>Heat Recovery And Heat Pump Retrofits - Facilitating The Clean Energy Transition In Existing Buildings</i> <b>Speaker:</b> <i>Tom Martin</i>	MTG Rm 1	CANNEPP
	The province of BC is committed to a 30% GHG reduction over 2005 levels by 2030 and an 80% reduction by 2050. With a clean electrical grid, these levels of GHG reductions will occur in existing buildings by transitioning from gas-fired heating sources to electric heat pumps. This presentation covers the applications, obstacles, and design and financial considerations in retrofitting buildings with heat pumps and heat recovery systems including multiple case studies from Hospitals and Laboratories in BC. In particular, leveraging end-of-life equipment replacements to install these systems can yield the most favourable paybacks.		
10:00 to 11:00	TRADESHOW & Refreshment Break <i>*nametags mandatory*</i>	Tradeshow Floor	Fortis BC
11:00 to 12:00	<b>Session 6A:</b> <i>Light Gage Steel Computer Assisted Technology In Future Healthcare Facility Construction</i> <b>Speaker:</b> <i>Daniel St-Gelais</i>	SALON C	Boldwing Continuum Architects Inc.
	With our fast aging population, it is imperative we find new ways to build many hospitals faster, effectively and at a much lower costs. To meet these goals, we must change the way we think, design and construct our hospitals. One of the answer to this massive challenge, is to agree to redefine the primary functions of a Hospital building and consider the new LGS Computer Assisted Technology in construction. This presentation will outline the tremendous advantages of the LGS combined computer technology and how it can really help re-building our aging Healthcare Infrastructures in BC. It will be presented by the CEO of YAG, a newly established BC company, bringing a great European technology for a bright Canadian future infrastructure.		
	<b>Session 6B:</b> <i>Engineering Security &amp; Technology Systems for Hospitals</i> <b>Speaker:</b> <i>Victoria Walsh</i>	MTG Rm 1	Tippet Richardson
	A discussion of the security and related systems used in a hospital and their purpose. This will cover the most common "meat & potatoes" systems such as access control and video surveillance as well as healthcare related systems like a Real Time Locating System (RTLs) or Integration Platform. Design considerations and practical examples of scenarios to consider when planning the design.		
12:00 to 13:45	LUNCH ON TRADE SHOW FLOOR <i>*nametags mandatory*</i> Conference Close & Prize Draws (passport program giveaways)	Tradeshow Floor	Swisslog

# *Thank you to all of our Conference Speakers*

## **KEYNOTE ADDRESS SPEAKER:**

**Chris Mazurkewich** was appointed as President and Chief Executive Officer of Interior Health in October 2015.

Chris rejoined Interior Health after spending four years at Alberta Health Services, most recently as Executive Vice President and Chief Operating Officer for the provincial agency. In this role, he worked in close partnership with the Chief Medical Officer overseeing the clinical operations of the Alberta health service delivery system, including about 100 hospitals, community and residential care programs, and support services. Prior to his move to Alberta Health Services, he was the Chief Operating Officer, Strategic & Corporate Services, for Interior Health from its inception in 2002 until 2009. Through his previous leadership roles, Chris has had the opportunity to manage most elements of the health system, engage with a broad range of stakeholders, and participate extensively in provincial committees. In partnership with clinical colleagues, he has always been committed to understanding the needs of patients, clients, and residents; and ensuring quality services are available to meet those needs. He holds a Bachelor of Commerce (Accounting) from the University of Saskatchewan, a Master of Administration (Health) from Central Michigan University, and a Chartered Accountant designation. Chris lives in Kelowna where he enjoys hiking, yoga, t'ai chi, road biking, and playing bridge.

## **EDUCATION SESSION SPEAKERS:**

**SHAWN BALDING** is in Business Development for Schneider Electric Canada Field Services. He holds a degree in Electrical Engineering and a Journeyman Electrician Ticket totaling 17 years in the industry. Before joining Field Services, Shawn was the North American R&D Hardware Engineering manager for Power Logic and ION meter development, as well as chair and risk assessor of a global offer safety committee. He brings his creativity and passion for innovative solutions to the Canadian electrical distribution market.

**JAMIE BARDSLEY**, Service Account Manager, Trane Canada, joined Trane Canada in July 2010 as an Account Manager in the HVAC Service department, specializing in Chillers. He works regularly with Building Owners, Facility Managers, and Technicians to plan and manage equipment programs for commercial facilities. Born and raised in Vancouver, Jamie has a Mechanical Engineering degree from UBC. Outside of work, he spends his time travelling, coaching his kids' teams, and getting wrangled into neighborhood renovation projects.

**MARCO BUCCINI**, ARCHITECT AIBC, Director, Design Management Services, EllisDon

Marco has over 29 years of experience as a leader in the health care industry, with unparalleled expertise in institutional and commercial facilities planning, design and project management. He has spent the majority of his career in senior management positions with the Lower Mainland Health Authorities, serving 25 years with Fraser Health Authority and 6 years with Vancouver Coastal Health Authority, Provincial Health Services Authority and Provincial Health. His involvement with British Columbia's health authorities and dedication to his work has resulted in the successful completion of hundreds of projects, in all aspects of the health care continuum. In 1988, Marco began his career in Architecture as a designer, for two firms in Calgary. Three years later, Marco was hired by the Fraser Burrard Hospital Society where he performed the roles of senior planner, project manager and department manager. Marco was named a Director at Fraser Health in 2001 and was given the opportunity to manage the Real Estate Department, which included responsibilities such as oversight of land development, leasing and property management. When he was named Executive Director in 2009, Marco was given the added responsibility of strategic development and took the lead role in developing health care facility solutions. It has been these solutions which have become catalysts for healthcare transformation, which ultimately contribute towards a sustainable and universal health system.

**VALENTINA DABIC** began her career at the University of Novi Sad working on research and development of computer models for distribution system analysis. Her areas of interest are application and integration of new technologies for distribution systems, distribution system modeling and analysis, with particular emphasis on Distribution Automation and Distribution Management System, advanced applications for distribution systems especially Voltage Var Optimization, Voltage.

**MARC DAGNEAU, BA, PE** has over 16 years healthcare facilities management experience from operations & maintenance through to planning & implementation. A CHES member since 2010, he has extensive knowledge of healthcare related codes and standards and is the current Chair of the Lower Mainland Facilities Management and Infection Control Committee, the LMFMICC. Since 2012, Marc has been focused on critical systems' risk identification, asset management framework for healthcare, and quality initiatives development.

**KELLY DUKE** received his Master's degree in Industrial Engineering from North Carolina State University in 2002 and joined Fraser Health the same year. Kelly became involved in health care facilities design on a large scale in 2004 when he participated in design development for the Abbotsford Regional Hospital as a Human Factors specialist providing design input based on task requirements and process flow. From 2007 to 2009 Kelly worked for Fraser Health as an Operations Engineer; using data analytics and operations analyses to improve patient flow.

Since 2009 Kelly has been working as a Senior Facilities Clinical Planner on a diverse range of health care projects in the Vancouver Lower Mainland. Highlights over the past 8 years include: delivering the clinical programming components of the High Level Master Plan for two community hospitals, and writing successful business plans for capital projects totalling more than \$100 million. Regardless of the project size, Kelly gets great satisfaction in scoping projects to clearly define issues and root problems, and then performing a diligent review to make a clear case for space needs and/or operational improvements.

**CHRIS GOODCHILD**, P.Eng., BSc, Principal, SES Consulting Inc., joined the SES team in 2012 with a desire to build a career that he could be proud of. Chris provides creative design solutions to transform existing buildings into high performance systems. He specializes in whole building waste heat recovery design solutions that virtually eliminate the load on existing boiler plants. Chris and Scott Sinclair are proud recipients of APEGBC's 2016 Sustainability Award for the Vancity Heat Recovery Project. This project set a precedent for what could be accomplished with existing buildings. A key part to the success of this project was applying controls optimization strategies to the design – a skill that Chris excels at. When he's not saving energy, he enjoys sailing, surfing, snowboarding and playing music.

**TAHIR JOSEPH, B.Tech(IT), MEd.** has a Master's degree in Educational Technology and Learning Designs from Simon Fraser University and Adult Education - Provincial Instructor Diploma from School of Instructor Education – Vancouver Community College. Tahir has over 6 years of instructional design experience developing learning solutions for adult learners. Currently, he is the Training and Education Coordinator with Lower Mainland Facilities Management (LMFM) where he designs and develops class room and online courses for facilities staff.

**THANO LAMBRINOS**, DIRECTOR, BUSINESS DEVELOPMENT, ENERGY AND DIGITAL SERVICES, ELLISDON CORPORATION

Thano has over 12 years' experience in the construction industry, serving both the facilities management and redevelopment communities within the Healthcare space. At EllisDon, the role of the Energy and Digital Services team is to provide intelligent building infrastructure, energy optimization and energy generation solutions to healthcare facilities in both new construction and retrofit applications. As Director of Business Development, Thano's goal is to help healthcare operators identify opportunities for digital transformation and energy optimization; building customized solutions that improve the patient experience, generate significant long term cost savings, and extend the life cycle of healthcare assets. Prior to joining EllisDon, Thano was responsible for the Technical Services business unit of a large multi-trade construction contractor, focusing on the delivery of electrical, mechanical and ICAT services, preventative maintenance, engineering, and facility management services to end-user clients.

**TOM MARTIN** is a project manager and technical expert with WSP, specializing in the areas of existing building commissioning, energy audits, energy modelling, measurement and verification, and energy efficiency retrofits. With 9 years of experience in engineering consulting, he has worked on over 100 projects in these service areas for hospitals, laboratories, commercial retail, commercial offices, residential and institutional buildings, and higher education. Tom is a trainer at the Canadian Institute of Energy Training (CIET) for the Building Operator Certification (BOC) program and a former instructor for the BCIT Sustainable Energy Management Advanced Certificate (SEMAC) program. Tom's current professional interests include project management of medium to large scale mechanical projects, deep emission reduction retrofits, mechanical design, automation system sequence optimization and standardization, building analytics and fault detection, ongoing commissioning, and energy efficiency training and outreach.

**CATHY MASSEY** has worked for Lower Mainland Facilities Management for the last 5 years and has recently accepted the position of Manager, Planning and Projects (Clinical Facilities Planning). Prior to this role, she held the role of Senior Facilities Clinical Planner where she was involved in various healthcare design projects, the largest being the \$1.3B Royal Columbian Hospital Redevelopment project which includes 3 phases of work using both the P3 and DB procurement methods. Cathy is an experienced nurse with over 30 years acute and community experience working in Healthcare, primarily pediatrics. Within that, she held positions on the frontline and in Educator, Clinical Nurse Specialist, Manager, and Director roles. Cathy has a Master's Degree in Nursing and is EDAC certified. She is also a Board Member, Education for the Nursing Institute for Healthcare Design and is tasked with organizing the Clinical Track for the Healthcare Design Conference in Orlando, Florida in November, 2017.

**KRISTIN J. MOORE, LEED® AP** As DIRT's Healthcare Director, Kristin works with healthcare systems, architects, designers and general contractors around the world to ensure DIRT solutions benefit patients and their families, medical staff, facility managers and owners. With a background in medical anthropology, Kristin is a passionate advocate of clean and rapid construction for healthcare that is cost effective, adaptable and focuses on patient-centered design solutions.

**KIRSTEN REITE**, ARCHITECT AIBC, MRAIC, AAA, SAA, LEED AP® BD+C, is a graduate of the School of Architecture and Landscape Architecture at the University of British Columbia where she received a Bachelor of Architecture in 1995. She has practiced architecture for over twenty years, establishing her own firm in 2013. Kirsten has extensive experience planning and designing healthcare facilities and has carried responsibility for over 100 complex projects valued from \$5,000 to \$400 million of new, renovated and programmed space including the recently completed Queen Charlotte/Haida Gwaii General Hospital and Chinook Regional Hospital Redevelopment.

**DANIEL ST-GELAIS** graduated from Laval University in 1986 with a Bachelor degree in Engineering and subsequently obtained a Master degree in Environmental Engineering in 1988. After graduation, he immediately migrated in Western Canada and worked as an engineer in Alberta, BC and abroad over the past 29 years. His main career always focussed on team leadership and project Management. For the past 6 years, Mr. St-Gelais has managed the technical team overseeing the single largest Public Private Partnership (P3) social housing project in North America “the Single Room Occupancy (SRO) Renewal Initiative project by BC Housing”. The project involved the rehabilitation of 13 heritage Hotel buildings in Vancouver’s Downtown Eastside. Completed in March 2017, the project’s primary goal was to provide safe, functional, habitable accommodations to residents of the Downtown Eastside community by renovating and improving all major building systems. During this project, Mr. St-Gelais learned some key elements that inspired him to bring a new faster and cost effective construction technology in Canada that can be used for any residential, commercial and especially hospital facilities construction projects. His presentation will outline this amazing construction technology.

**VICTORIA WALSH** is a security and technology specialist whose qualifications include a Bachelor of Science (BSc) in Electrical Engineering; Professional Computer Science Technology (PCST); Professional Engineer (P. Eng.) accreditations, and security network, structured cabling, and software competencies. In addition to her knowledge of design tools, systems technologies, project management, and best practices she has six years of Electrical Engineering experience plus an additional 11 years in Security Engineering for planning, development, creation, and deployment of engineering solutions for diverse companies, industries, and organizations. Victoria is a professional member of APEGBC, APEGA, and APEGS. She currently holds a current Reliability Status security clearance issued by Canadian Industrial Security Directorate (CISD) and is licensed as a Security Consultant by the BC Ministry of Justice. One of her guiding principles of design is that security technology needs to help her clients do their jobs better and to enhance their primary business objective.

***Thank you to all presenters for sharing their knowledge and time!***

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*(see Committee Member list on page 3)*



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