

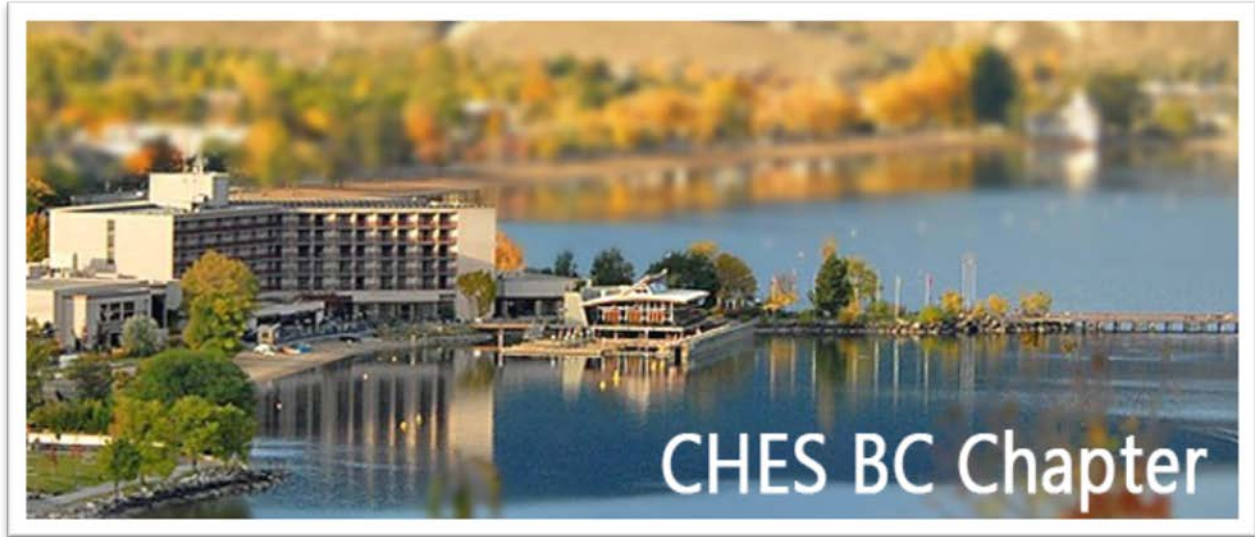
CHES SCISS

Canadian Healthcare
Engineering Society
BRITISH COLUMBIA CHAPTER



Société canadienne d'ingénierie
des services de santé
CHAPITRE DE COLOMBIE-BRITANNIQUE

Safety First: Our Mandate for Responsible Healthcare



2019 Trade Show & Education Conference *Penticton Trade & Convention Centre* May 26-28, 2019

Wi-Fi PROGRAM - Sponsored by:



CHES SCISS

Canadian Healthcare
Engineering Society

BRITISH COLUMBIA CHAPTER



Société canadienne d'ingénierie
des services de santé

CHAPITRE DE COLOMBIE-BRITANNIQUE

WELCOME

On behalf of the CHES BC Planning Committee, I would like to welcome you to Penticton BC and the 2019 CHES Annual Education Conference and Trade Show.

Our theme for this year's conference is **“Safety First: Our Mandate for Responsible Healthcare”**. By its definition “safety” is the condition or state of an organization or place doing what it is supposed to do. Safety is defined in terms of public codes and standards, associated architectural and engineering designs, corporate vision and mission statements, and operational plans and personnel policies. Our education sessions selected will give us tools to learn, they will provoke thought and discussion, and prepare us all for the future culture shift to support our healthcare facilities and staff training to achieve a safer working environment.

We are truly fortunate, once again, to have a sold out Trade Show and a full Sponsorship Program. The ongoing support given to CHES by our Sponsors and Exhibitors, many of whom are long-time supporters, contribute greatly to the success of our conferences. I encourage all CHES Members, Delegates, and Visitors to come out and visit with our Exhibitors and Sponsors on the trade show floor that support CHES. I encourage you to 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, your networking opportunities, and the surrounding beauty that Penticton offers. On behalf of the Conference Planning Committee, I thank you for attending the 2019 CHES Annual Education Conference and Trade Show and for your continued support in making CHES BC a strong chapter.

Looking ahead, our next CHES Conference will be in Whistler on June 7th to 9th 2020. The Delta Whistler Village Suites will be the host Hotel and the conference will be held at the Whistler Conference Centre.

Sarah Thorn, CHES BC
Conference Chair



GREETINGS

On behalf of the BC CHES Executive, I would like to welcome you to the 2019 CHES BC Conference. The Planning Committee has again spent many hours putting together another great conference for you to take in. I encourage you to take the time to explore and learn as much as you can while you are here.

We have our AGM scheduled for Monday afternoon and I invite each of you as members to attend. This is an opportunity to see what CHES BC is doing and to meet your newly elected executive members. Feel free to stop us during the conference should you have any questions.

Check out the CHES website <https://www.ches.org/> for news and updates. We have some great educational opportunities such as the Canadian Healthcare Construction Course (CanHCC), CCHFM certification, CHES webinars (no charge for CHES BC members) and the education bursary for BC members. The CHES National Conference is being held in September in Saskatoon this year, a great opportunity to network with our colleagues from across Canada.

Enjoy the conference, networking with your fellow colleagues and take in the many offerings of CHES. For those interested as well we have the CanHCC taking place at the Sandman Hotel in the Okanagan Room, May 29-30, 2019. Register on the CHES website.

Sincerely,

Norbert Fischer
BC Chapter Chair



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CHES BC Conference - Organizing Committee

CHAIRPERSON:

Sarah Thorn CHES BC Member, Senior Project Manager, Capital Projects, Lower Mainland Facilities Management

COMMITTEE MEMBERS:

Arthur Buse CHES BC Member, Director of Practice, Architect AIBC, Boldwing Continuum Architects Inc.
Norbert Fischer CHES BC Member, Manager, Plant & Maintenance Services, East Kootenay, Interior Health
Steve McEwan CHES BC Member, Director, Plant Services, Interior Health
Rick Molnar CHES BC Member, Manager, Facilities Maintenance & Operations, Ridge Meadows Hospital
Caroline Reid CHES BC Member, Principal, Aladaco Consulting Ltd.
Mark Swain CHES BC Member, Senior Associate, Rocky Point Engineering
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: *Linda Williams* – CHES BC Conference Coordinator



ENVIROSAFETY

THANK YOU to the Grassroots Program Sponsor:

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

General Conference Information

Exhibitor Registration Desk Hours: SUNDAY, May 26 12:00 – 17:00

Delegate Registration Desk Hours: SUNDAY, May 26 15:00 – 18:00



ALL attendees are required to wear their name badges at all times during the conference and 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 and social events will be in your registration package and will be collected at each function.

Delegate Registration Gift sponsored by:



Exhibitor Trade Show Hours

TRADE SHOW FLOOR = PENTICTON TRADE & CONVENTION CENTRE

| SUNDAY, MAY 26 | | |
|------------------------|---|-------------------------|
| 18:00 to 19:30 | Opening Wine & Cheese Reception | TRADE SHOW FLOOR |
| MONDAY, MAY 27 | | |
| 09:30 to 10:30 | TRADE SHOW & Refreshment Break | TRADE SHOW FLOOR |
| 12:30 to 14:30 | LUNCH ON TRADE SHOW FLOOR | TRADE SHOW FLOOR |
| TUESDAY, MAY 28 | | |
| 10:00 to 11:00 | TRADE SHOW & Refreshment Break | TRADE SHOW FLOOR |
| 12:00 to 13:45 | LUNCH ON TRADE SHOW FLOOR Conference Close & Prize Draws | TRADE SHOW FLOOR |

PARTICIPATE IN THE PASSPORT PROGRAM

SPONSORED BY:



Delegates/Grassroots participants: Engaging with Exhibitors is encouraged throughout the Trade Show. As you visit Exhibitor booths, you will use your passport sheet to acquire initials from those exhibitors. When you have collected the required # of initials you may bring your sheet to the registration desk for verification. All verified entries will be entered into the draw barrel at Community Fire's booth #34.

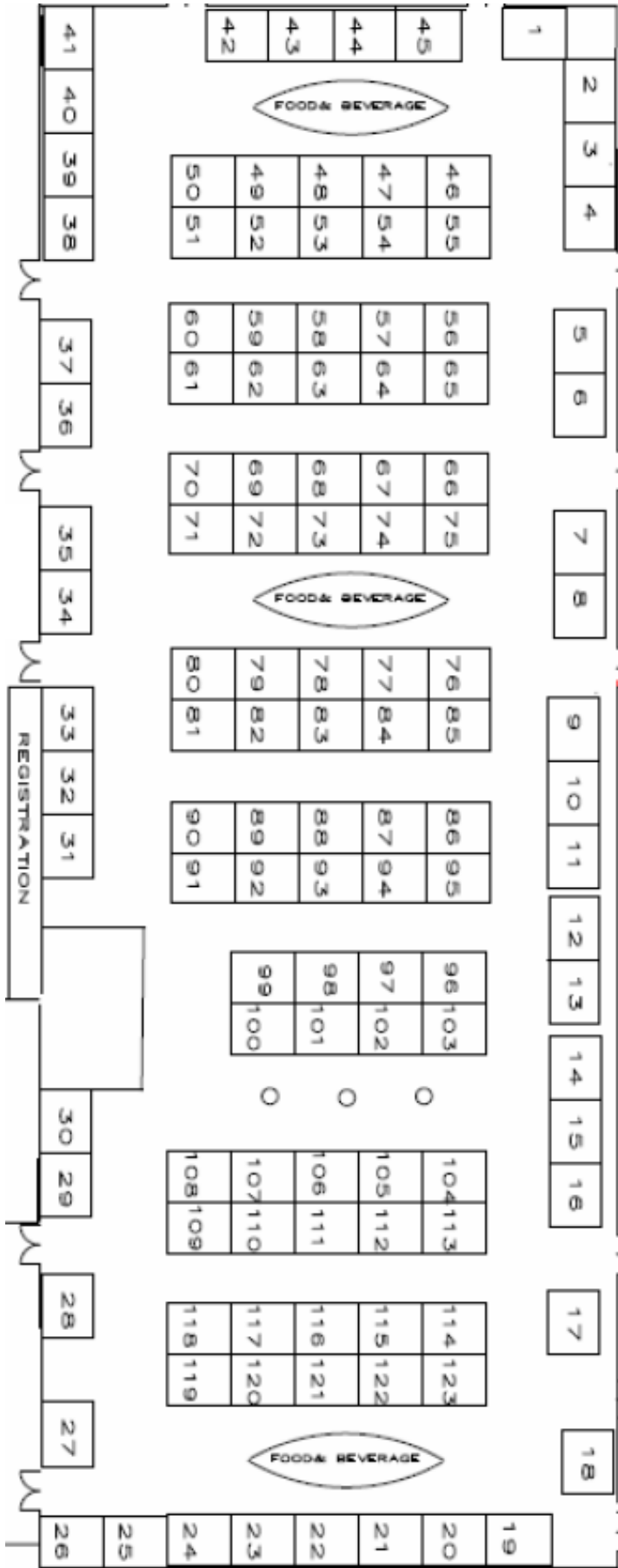
Look for your passport sheet in your registration package

CONFERENCE @ A GLANCE

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

| SUNDAY, May 26 | | | SPONSOR |
|--------------------------------|--|-----------------|------------------------------------|
| 12:00 to 17:00 | Exhibitor Check-in / Package Pickup / Move-in / Setup Booths on Trade Show Floor | PTCC | |
| 15:00 to 18:00 | Delegate Check-in / Package Pickup | PTCC | Proactive Hazmat |
| 18:00 to 19:30 | Opening Wine & Cheese Reception on Trade Show Floor <i>*nametags required – in registration package at check-in*</i> | PTCC Trade Show | Tremco |
| MONDAY, May 27 | | | LOCATION |
| 07:15 to 08:15 | Breakfast for Delegates & Exhibitors <i>*nametags required</i> | PTCC Foyer | AES Engineering |
| 08:15 to 09:30 | Opening Ceremonies: Sarah Thorn, CHES BC Conference Chair Keynote Address: Phil Gothe, VP Operations & Client Experience, Technical Safety BC | Salon C | Honeywell |
| 09:30 to 10:30 | TRADE SHOW & Refreshment Break <i>*nametags required</i> | Trade Show | Cullen Diesel Power |
| 10:30 to 11:30 | Session 1: Humour at Work Speaker: Greg Kettner | Salon C | Abatement Technologies |
| 11:30 to 12:30 | Session 2A: Standardized Safety Program for all FMO at 4 Health Organizations Speakers: Joel Odin, Wakako Kimura Thomson | Salon C | Acuity Brands / Inter-Lite Sales |
| | Session 2B: How Not to Procure an Arc Flash Study Speakers: Matthew Westerberg, Ken Wilson | Mtg Rm 1 | Reliance Worldwide |
| 12:30 to 14:30 | TRADE SHOW & Lunch <i>*nametags required</i> | Trade Show | Fortis BC |
| 14:30 to 15:30 | Session 3A: Contractor Safety: A Risk Management Perspective Speakers: Tahir Joseph, Judy Savinkoff | Salon C | CGC Inc. |
| | Session 3B: Carbon Monoxide - Gas Service Industry Speakers: Richard Pfefferkorn | Mtg Rm 1 | Jensen Hughes |
| 15:30 to 16:00 | CHES AGM – All Exhibitors & Delegates who are CHES Members are encouraged to attend *COMP BEV TICKET TO ATTENDEES* CHES BC CHAIR: Norbert Fischer | Salon C | |
| 17:00 to 18:00 | HAPPY HOUR @ Lakeside Hotel <i>*nametags required</i> | LAKESIDE HOTEL | Class 1 Inc. |
| 18:00 <i>*approx. 4 hrs</i> | PRESIDENTS BANQUET & ENTERTAINMENT Entertainer: Comedian Greg Kettner ** Tickets must have been purchased in advance and must be presented upon entrance to the Banquet Dinner ** | EAST BALLROOM | Johnson Controls |
| TUESDAY, May 28 | | | LOCATION |
| 07:15-08:00 | Breakfast for Delegates & Exhibitors <i>*nametags required</i> | PTCC Foyer | WSP |
| 08:00-09:00 | Session 4A: Legionella Risk Management for Healthcare Facilities Speakers: Patrick Racine, Ken Sunderman | Salon C | Camfil Canada |
| | Session 4B: Creating A Safe Environment for Patients & Staff Through Connected Converged Security Speakers: Julie Brown | Mtg Rm 1 | DuBois Chemicals |
| 09:00-10:00 | Session 5A: Fall-Risk-Rating Methodology for Facility Maintenance Activities Speakers: Leonard Pianalto | Salon C | Power Suction Services |
| | Session 5B: Modern Advances in Infection Control Facility Engineering Speaker: Tariq Amlani, Diego Mandelbaum | Mtg Rm 1 | CANNEPP |
| 10:00-11:00 | TRADE SHOW & Refreshment Break <i>*nametags required</i> | Trade Show | SNC Lavalin |
| 11:00-12:00 | Session 6A: How GFCl, IPC Panels and High Resistance Grounding Create a Safety First Work Place Speakers: Amir Mojtahed, Sonny Solanki | Salon C | Boldwing Continuum Architects Inc. |
| | Session 6B: Safety Considerations For Safe Injection Sites Speaker: Katie Subbotina | Mtg Rm 1 | Cascadia Energy Ltd. |
| 12:00-13:00 | TRADE SHOW & LUNCH <i>*nametags required</i> | Trade Show | IEM Industrial Electric Mfg. |
| 13:00-13:45 | CONFERENCE CLOSE: <i>*PASSPORT PRIZE DRAW* *EXHIBITOR PRIZE GIVEAWAYS</i> | | |

Trade Show Booth Floor Plan



**CHES BC CHAPTER 2019
Exhibitor List & Booth # (Alphabetical)**

| EXHIBITOR NAME | BOOTH # | EXHIBITOR NAME | BOOTH # | EXHIBITOR NAME | BOOTH # |
|---------------------------------------|---------|---|---------|--|---------|
| 3Phase Power | 17 | E I Solutions Inc. | 13 | Modern Niagara | 29 |
| 4th Utility | 5 | Eaton Industries (Canada) Co | 53 | Mondo Contract Flooring | 121 |
| Abatement Technologies | 77 | Envirosafety | 61/62 | NALCO Water | 100 |
| Acklands Grainger | 108 | Equipco Ltd | 96 | Nora Systems Inc. | 103 |
| Actall Corporation | 16 | Erv Parent Company | 11 | Nu Flow | 58 |
| Acuity Brands Inc. / Inter-Lite Sales | 111 | ESC Automation Inc | 82 | OES Wellness Group | 123 |
| Air Liquide Healthcare | 25 | Fink Machine | 113 | Pinchin Ltd. | 117 |
| AMG Medical | 31 | Finning Canada | 67 | PowerSafe Energy Services Inc. | 84/85 |
| Amico Corporation | 92 | Flynn Canada Ltd. | 14 | Proactive Hazmat & Environmental Ltd. | 72 |
| Aqua Air Energy Solutions | 50 | Forbo Flooring Systems | 81 | RCABC Guarantee Corp. | 80 |
| Armstrong Flooring | 19 | FortisBC | 79 | Reliable Controls | 40 |
| Armstrong Fluid Technology | 35 | Garland Canada Inc. | 70 | Reliance Worldwide Corporation (Canada) Inc. | 97 |
| ASSA ABLOY Canada | 21 | Genesis Integration | 119 | Reyco Sales Ltd | 57 |
| Austco Communication Systems | 45 | Genesis Restorations | 69 | Rockfon | 27 |
| B.G.E Service & Supply Ltd | 116 | Global Plasma Solutions | 94 | Schneider Electric Canada Inc. | 15 |
| Barclay Sales Ltd | 28 | Grundfos | 41 | Siplast | 44 |
| Belden | 56 | Guard RFID Solutions Inc. | 59 | Smillie McAdams Summerlin | 19 |
| Bowers Medical Supply | 98 | Hakai Energy Solutions Inc | 122 | Spirax Sarco Canada Ltd. | 102 |
| Camfil Canada Inc. | 63 | Hazmasters | 43 | Stanley Access Technologies | 4 |
| CANNEPP Sales & Service | 51/52 | Honeywell | 71 | Steam Specialty Sales | 3 |
| Care Systems Services Ltd. | 109 | Houle Electric Ltd. | 91 | STERIS Canada Sales ULC | 68 |
| Caster Town | 104 | HSL Automation | 115 | Sycorp Environmental Inc. | 95 |
| Centura | 54/55 | HVAC Systems & Solutions Ltd. | 37 | Tandus Centiva | 12 |
| CGC | 1 | Hy-Line Sales 2018 Ltd | 10 | Terracom Systems Ltd. | 60 |
| Chem-Aqua | 49 | IBC Technologies Inc. | 38/39 | Texcan | 7 |
| Class 1 Inc. | 33 | IDN Canada Ltd | 106 | Thomson Power Systems | 36 |
| Clean Air Services | 112 | IEM Industrial Electric Mfg (Canada) Inc. | 75 | Time Trackers Ltd. | 32 |
| Community Fire Prevention Ltd. | 34 | IKO | 114 | Total Power Ltd | 24 |
| Control Solutions Ltd. | 110 | IPEX | 83 | Trane Canada West | 90 |
| Cool Air Rentals | 46 | Jensen Hughes | 101 | Tremco | 74 |
| Cool King Refrigeration Ltd. | 107 | Johnson Barrow BC | 86 | Umano Medical | 26 |
| Cullen Diesel Power Ltd. | 78 | Johnson Controls | 73 | Vernacare Canada Inc. | 89 |
| Cummins Western Canada | 9 | Leviton Canada | 20 | Victaulic | 76 |
| CuraFlo of British Columbia Ltd. | 66 | Logical Solutions | 47 | Viessmann Manufacturing Co. Ltd. | 64/65 |
| Custom Power Generation | 30 | Marathon Institutional Products | 8 | Watertiger | 99 |
| D.G. MacLachlan Ltd. | 6 | McCrann Cyrus Mfg Canada | 48 | WESCO Distribution Canada | 87 |
| Davis Controls Ltd | 120 | McGregor Hardware Distribution | 118 | Westpoint Sales Inc. | 42 |
| Dobbin Sales Limited | 23 | Meditek | 2 | Willis | 93 |
| DuBois Chemicals Canada Inc. | 88 | Miura Canada | 105 | Yorkland Controls | 22 |

Thank you to our Program Sponsor



Look for your USB 2G MEMORY STICK in your Registration Package

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Société canadienne d'ingénierie
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CHAPITRE DE COLOMBIE-BRITANNIQUE

CHES BC Chapter Annual Conference & Trade Show Full Program

ALL EVENTS (except Monday Happy Hour & Banquet Dinner) are at the PENTICTON TRADE & CONVENTION CENTRE (PTCC)

| SUNDAY, May 26 | | LOCATION | SPONSOR |
|----------------|---|------------------|-------------------------|
| 12:00 to 17:00 | Exhibitor Move-in / Setup Booths on Trade Show Floor | PTCC Trade Show | |
| | Exhibitor Check-in / Package Pickup | PTCC Foyer | |
| 15:00 to 18:00 | Delegate Check-in / Package Pickup | PTCC Foyer | <i>Proactive Hazmat</i> |
| 18:00 to 19:30 | Opening Wine & Cheese Reception on Trade Show Floor <i>*nametags mandatory – in registration package at check-in*</i> | Trade Show Floor | <i>Tremco</i> |

| MONDAY, May 27 | | LOCATION | SPONSOR |
|----------------|--|------------|------------------------|
| 07:15 to 08:15 | Breakfast for Delegates & Exhibitors <i>*nametags mandatory*</i> | PTCC Foyer | <i>AES Engineering</i> |
| 08:15 to 09:30 | Opening Ceremonies – Welcome Address <i>Sarah Thorn, Conference Chair, CHES – BC Chapter</i> | Salon C | <i>Honeywell</i> |



KEYNOTE Speaker: Phil Gothe, VP Operations & Client Experience **Creating and Sustaining an Effective Safety Culture**

To create and sustain an effective safety culture you need:

INFRASTRUCTURE + TRANSPARENCY + LEARNING MINDSET + DISCIPLINE + LEADERSHIP = CULTURE = SAFETY
Accountability – like it or not, you will be held accountable if you are a Leader.

| | | | |
|----------------|---|------------------|-------------------------------|
| 09:30 to 10:30 | TRADE SHOW & Refreshment Break <i>*nametags mandatory*</i> | Trade Show Floor | <i>Cullen Diesel Power</i> |
| 10:30 to 11:30 | Session 1: Humour at Work Speaker: Greg Kettner | Salon C | <i>Abatement Technologies</i> |

Did you know that humour is the best medicine? Whether you are at work, at home, or in awkward social situation, humour can be your best friend. Humour can lower your stress, increase your memory, make you happy and help you get ahead in your career. This Humor at Work workshop teaches the four different kinds of humour, how to use them effectively to make your work day even better.

| | | | |
|----------------|---|---------|---|
| 11:30 to 12:30 | Session 2A: Standardized Safety Program for all FMO at 4 Health Organizations Speakers: Joel Odin, Wakako Kimura Thomson | Salon C | <i>Acuity Brands / Inter-Lite Sales</i> |
|----------------|---|---------|---|

Experience the journey, challenges and successes for four Lower Mainland Facilities, Maintenance and Operations (LMFMO) departments challenged in standardizing and co-ordinating to a common safety program. The challenge is; can we built support and sustain a common, successful, FMO focused occupational health & safety program across 4 different health authorities with the goals of preventing injuries, meeting compliance requirements, and enhancing safety culture while at the same time sustain critical operational requirements.

| | | | |
|----------------|---|----------|---------------------------|
| 11:30 to 12:30 | Session 2B: How Not to Procure an Arc Flash Study Speakers: Matthew Westerberg, Ken Wilson | Mtg Rm 1 | <i>Reliance Worldwide</i> |
|----------------|---|----------|---------------------------|

We discuss several common mistakes made and opportunities missed when an arc flash study is commissioned, together with corresponding recommendations, including detailed discussions of specifications, timing of study, and closely related studies and work. A quick introduction into what is involved and what is required to complete adding electrical equipment to a live panel. This will include who is responsible for each part of the process.

| MONDAY, May 27 continued | | LOCATION | SPONSOR |
|--|---|---|------------------------|
| 12:30 to 14:30 | Lunch on TRADE SHOW FLOOR <i>*nametags mandatory*</i> | Trade Show Floor | Fortis BC |
| 14:30 to 15:30 | Session 3A: Contractor Safety: A Risk Management Perspective Speakers: Tahir Joseph, Judy Savinkoff | Salon C | CGC Inc. |
| This presentation will showcase Contractor Safety at Fraser Health by showing the tools and educational resources developed for this program. Following are the resource tools presented during the session; Contractor Safety Program, Contractor Safety Checklist, Contract/Project Manager Due Diligence Checklist and Contractor Safety Responsibilities Sign off Form. Educational information includes Occupational Health & Safety for Contract Managers Online Course and Contractor Continuous Quality Improvement Program - Facilities Management Online Course. | | | |
| 14:30 to 15:30 | Session 3B: Carbon Monoxide - Gas Service Industry Speaker: Richard Pfefferkorn | Mtg Rm 1 | Power Suction Services |
| This presentation provides information on carbon monoxide (CO), including: Attributes of CO; CO Production; CO Levels (Ambient & Flue Gas) and CO Alarms. | | | |
| 15:30 to 16:00 | CHES AGM – All Exhibitors & Delegates who are CHES Members are encouraged to attend <i>*COMPLIMENTARY BEVERAGE TICKET to all attendees*</i> | Salon C | |
| 17:00 to 18:00 | HAPPY HOUR <i>*nametags mandatory*</i> | Penticton Lakeside Resort East Ballroom | Class 1 Inc. |
| 18:00 (duration approx. 4 hrs) | PRESIDENTS BANQUET & ENTERTAINMENT <i>Entertainer: Comedian Greg Kettner</i> <i>** Tickets must have been purchased in advance & must be presented upon entrance to the Banquet Dinner **</i> | Penticton Lakeside Resort East Ballroom | Johnson Controls |

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...

GREG KETTNER

Greg Kettner is a keynote speaker, comedian, and sales trainer who empowers people to use their humour to increase revenue, lower employee turnover and to build a fun team culture. He has been a top producer over the past twenty-two-year sales career with SAP, Nike, Vancouver Canucks, Vancouver Whitecaps and the Seattle Thunderbirds.

Greg now travels across North America combining his two passions of sales and comedy to help his clients succeed even more and showing people how to have fun and love your job once again.

Greg lives in Walla Walla, WA and enjoys spending time with his family, golfing and drinking great wine.



| TUESDAY, May 28 | | LOCATION | SPONSOR |
|--|---|------------------|------------------------------------|
| 07:15 to 08:00 | Breakfast for Delegates & Exhibitors *nametags mandatory* | PTCC Foyer | WSP |
| 08:00 to 09:00 | Session 4A: Legionella Risk Management for Healthcare Facilities Speakers: Patrick Racine, Ken Sunderman | Salon C | Camfil Canada |
| <p>The presentation will outline the basic theory and risks associated with Legionnaires' disease for healthcare facilities. As the awareness has evolved throughout the industry in North America, the expectations have increased greatly. We will discuss how outbreaks in Quebec (2012) and New York (2015) have caused these jurisdictions to regulate all high risk legionella water systems and how the September 2018 outbreak in Guildford along with new regulations passed for the City of Vancouver in December 2018 will likely lead to similar requirements in BC.</p> | | | |
| 08:00 to 09:00 | Session 4B: Creating A Safe Environment for Patients & Staff Through Connected Converged Security Speaker: Julie Brown | Mtg Rm 1 | DuBois Chemicals |
| <p>The climate is changing and existing healthcare facility and operations may be at risk of failure, damage and/or deterioration from extreme climatic events or significant changes to baseline climate design values. In order to mitigate risks to the facility and occupants in the future, facility operators and managers need to understanding of what should be implemented now and in new designs based on the predicted change of climate indices and their impact on building systems. Safety continues to be a growing challenge in hospitals. Proliferation of IoT technologies, advancements in AI, and convergence between the physical and cyber world enables moving the security industry from a reactive and investigative posture into a predictive and proactive posture. These new competencies make security more effective, aligned with changing business needs, and cost effective. In this session we'll review the issues and challenges impacting healthcare safety and the strategies to keep our hospitals safe.</p> | | | |
| 09:00 to 10:00 | Session 5A: Fall-Risk-Rating Methodology for Facility Maintenance Activities Speakers: Leonard Pianalto | Salon C | Jensen Hughes |
| <p>This presentation will step through a novel methodology applied to fall hazard site assessments and risk mitigation for maintenance and operational activities for commercial, industrial, and institutional facilities. This methodology uses a system developed to catalogue hazards according to relative risk scores and presents abatement strategies within the Hierarchy of Safety framework outlined by WorkSafe BC. We will describe how we have developed a risk score calculated as the product of "consequences" and "vulnerability".</p> | | | |
| 09:00 to 10:00 | Session 5B: Modern Advances in Infection Control Facility Engineering Speakers: Tariq Amlani, Diego Mandelbaum | Mtg Rm 1 | CANNEPP |
| <p>This session will provide an overview of the issue of HAIs, and some simple/novel solutions that can be implemented to help reduce the impact of HAIs on patients, visitors and caregivers. Specific topics to be discussed include negative air ducting systems, bedpan and macerator technologies, the importance of toilet fixtures selections and emerging technologies such as ultraviolet irradiation.</p> | | | |
| 10:00 to 11:00 | TRADE SHOW & Refreshment Break *nametags mandatory* | PTCC Foyer | SNC Lavalin |
| 11:00 to 12:00 | Session 6A: How GFCI, IPC Panels and High Resistance Grounding Create a Safety First Work Place Speakers: Amir Mojtahed, Sonny Solanki | Salon C | Boldwing Continuum Architects Inc. |
| <p>The subjects of this presentation are of three very popular products that can create a Safety First environment electrically - Industrial Grade GFCI, IPC panels, and High Resistance Grounding of the electrical power supplies. Often the equipment can be found in a hospital environment. This is a non-vendor specific presentation to discuss the applications on both technical and risk perspectives.</p> | | | |
| 11:00 to 12:00 | Session 6B: Safety Considerations For Safe Injection Sites Speakers: Katie Subbotina | Mtg Rm 1 | Cascadia Energy Ltd. |
| <p>Safe injection sites present a number of security and safety concerns. Based on the experience of being part of the team from the design, through construction and site operation, we will share our lessons learned for ensuring safety at safe injection sites. We will explore what worked well and should be repeated in future designs and what required improvement and will be accounted for in future projects.</p> | | | |
| 12:00 to 13:45 | Lunch on TRADE SHOW FLOOR *nametags mandatory* Conference Close & Prize Draws (passport program giveaways) | Trade Show Floor | IEM Industrial Electric Mfg. |

Thank you to all of our Conference Speakers!

KEYNOTE ADDRESS SPEAKER:



PHIL GOTHE believes that “to live is to lead,” and that the primary role of leadership is to imagine and create conditions for employees to thrive.

A thoughtful and caring leader, Phil supports teams of technically-minded specialists to enable the development of ground-breaking new approaches to technical safety oversight. By focusing on regulatory product development and assessment practices, Phil invests in working relationships to advance the understanding and management of safety risks. He has a deep regard for the knowledge and capability of clients and employees, and believes that developing a system of engaged duty holders is vital to maintaining confidence in the safety system.

A graduate of Collège militaire royal de Saint-Jean, Phil began his career in naval operations in the Royal Canadian Navy. Before joining Technical Safety BC in 2009, Phil spent 10 years leading business strategy development and continuous improvement consulting engagements in the forest products, helicopter and heavy equipment industries. Phil has an MBA from the University of Western Ontario, and obtained a Chartered Director designation from The Directors College. He is inspired by lifelong learning and peoples’ infinite capacity to improve and achieve results.

EDUCATION SESSION SPEAKERS:



TARIQ AMLANI is a mechanical engineer who is passionate about buildings engineering in the Healthcare sector. Over the past 14 years with Stantec, Tariq has specialized in the design, construction administration and commissioning of mechanical systems, consisting of heating, ventilation, air conditioning, plumbing, medical gasses, fire protection, smoke exhaust and life safety systems. As the Engineering Lead on the Stantec Global Healthcare Leadership Team, Tariq is fortunate to have exposure to healthcare projects of all types, sizes and levels of complexity.



JULIE BROWN is an Institutional Market Leader, working on directing strategy formulation, strategic plan development and implementing “go-to-market plans” for the Building Solutions business at Johnson Controls. She is responsible for driving business results for key market and customer segments in order to build the Healthcare and Education Institutional verticals. She supports Security, Fire/Life Safety and HVAC. Julie has more than 20 years of experience in general management, consulting, strategic marketing decision making and business development.

Prior to joining JCI she was Vice President of Client Engagement for a market strategy firm and spent the first part of her career in the building & construction industry with Alcoa’s Kawneer construction division.

Julie holds a B.A. in English and Business Administration from Ambassador University and an M.B.A. from Penn State. She lives in Yardley, Pennsylvania with her husband Jeff.



TAHIR JOSEPH is the Training and Education Coordinator with Fraser Health Authority in British Columbia. His Training and Education portfolio includes Lower Mainland Facilities Management employees such as: project managers, architects, clinical planners, strategic planners, energy managers and power engineers.

Tahir is a Certified Training and Development Professional with a Master’s degree in Educational Technology and Learning Designs from Simon Fraser University. He also holds a Provincial Instructor Diploma in Adult Education from Vancouver Community College – School of Instructor Education. Tahir has over 12 years of instructional design experience developing learning solutions for adult learners. Tahir sits on Kwantlen Polytechnic University (KPU) Senate as a senator representing KPU Alumni. He has presented his work at the Provincial Infection Control Network (PICNet) 2016 conference, Canadian Health Care Engineering Society (CHES) BC 2017 conference and the Institute for Performance and Learning annual conference 2018.



GREG KETTNER is a keynote speaker, comedian, and sales trainer empowering people to use their humour to increase revenue, lower employee turnover and to build a fun team culture. He has been a top producer over the past twenty-two-year sales career with SAP, Nike, Vancouver Canucks, Vancouver Whitecaps and the Seattle Thunderbirds.

Greg now travels across North America combining his two passions of sales and comedy to help his clients succeed even more and showing people how to have fun and love your job once again.

Greg lives in Walla Walla, WA and enjoys spending time with his family, golfing and drinking great wine.



DIEGO MANDELBAUM is a mechanical engineer and the Sector Leader for Stantec's Buildings' practice in British Columbia. Diego specializes in HVAC, plumbing, fire suppression, and medical gas design for Healthcare Facilities, and works on projects large, small, and everywhere in-between. Diego has a particular interest in the design of low-energy heating/cooling plants and high efficiency HVAC, and has considerable experience in decarbonization strategies for existing buildings.



AMIR MOJTAHED is Managing Director at Bender Canada Inc, where he leads the company and sets the overall strategic direction of the company alongside the board, including planning and implementing long term business strategies. Amir received a Bachelor of Electrical Engineering (B. Eng) in the field of Power & Renewable Energies in 2005 and earned Master of Engineering Management (M. Eng) in 2011 and Project Management in 2012. He is very passionate about Electrical Safety and has dedicated his time to provide professional electrical safety consulting services, seminars, and workshops aimed at building robust safety systems. Currently, he is a member of the technical committee, CSA Z32- Electrical Safety and essential electrical systems in health care facilities. He enjoys working with various Standard Communities such as CSA and IEEE to help define the latest technology and develop a roadmap to clarify the standards and maximize the safety of every application.



JOEL ODIN is a Canadian Registered Safety Professional (CRSP) and has been working in the health & safety field for over 22 years. Joel has experience in regulatory compliance and risk reduction for a variety of industries. Early in Joel's health & safety career, he was involved in a number of health and safety related projects with a number of employers including Vancouver International Airport, Langara College, and CP Rail to name a few. For the past 15 years, Joel has worked in the healthcare sector and is currently the *Leader, Prevention – Client Services* at Fraser Health where he leads a team of dedicated safety professionals.



RICHARD PFEFFERKORN has been involved in the installation, maintenance, service and inspections of mechanical plumbing gas sprinkler and HVAC systems for 39 years. The last 12 years he has been a Gas Safety Officer with Technical Safety BC. His responsibilities include: inspections, enforcement, education, and incident investigations. Prior to this, he was a plumbing, gas and sprinkler inspector with the District of North Vancouver. Richard holds a certificate in Operations Management from BCIT, as well as a Certificate of Competency as a Class A gas fitter, Red Seal Plumbing TQ, and cross connection control specialist.



LEONARD PIANALTO is a Group Leader at RJC Engineers (RJC) in Vancouver. His practice focuses on structural glass, façades and building maintenance access consulting.

Leonard has over 20 years of experience in the fall protection industry including the manufacturing, design, and implementation of building maintenance access systems. He was the primary author of “Designing Guards for Buildings” a Professional Practice Guideline for the Association of Professional Engineers and Geoscientists of BC (now EGBC). Leonard has also given numerous talks in BC on the requirements for fall protection in the commercial building industry.

Leonard has been a part-time instructor at the British Columbia Institute of Technology (BCIT) in the School of Construction and the Environment since 2012.



PATRICK RACINE is a Professional Engineer and Certified Energy Manager with a degree in Mechanical Engineering from McGill University. Patrick has over 20 years of experience in the design and implementation of water solutions for the healthcare industry. He has been involved in advancing best practices regarding Legionella risk mitigation for over a decade. Patrick is the incoming Chair of ASHRAE Water Treatment Committee TC3.6, and a member of the ASHRAE SSPC 188. He co-authored ASHRAE’s Water Treatment Handbook and ANSI/ASHRAE STANDARD 188 “Legionellosis: Risk Management for Building Water Systems”.

Patrick is also the Chair of the Canadian Boiler Society and is a recognized public speaker on the North American stage on the subject of water treatment and Legionella prevention. He has presented multiple times at the ASHRAE International Conference, at the NSF International Legionella Conference, and at many ASHE chapter events.



JUDY SAVINKOFF’s position at Fraser Health as Client Partner-Prevention is her dream job. She is able to exercise her passion for safety management by fostering collaborative processes to develop and refine safety programs, education and tools that assist Fraser Health to carry out its safety responsibilities.

Judy began her career in safety as a sole proprietor providing safety consultation and first aid services in Whistler. Over the past years she has gained experience in private and public industry, developing and implementing tailored and operational safety programs for forestry, heavy marine construction, manufacturing, health care and warehousing. Judy has a varied educational background in Safety, Adult Education, and Project Management.

Outside of work Judy loves exploring the BC coast and forests, and greeting the sunrise with a good cup of coffee on some Pacific Ocean beach.



SONNY SOLANKI is an Application Engineer at Bender Canada Inc. He focuses on design, sales, troubleshooting and commissioning of Bender products across Canada. Sonny earned a B. Eng degree from McMaster University in Hamilton, Ontario and is currently in the process of getting a Professional Engineering License. In addition to his daily routine, he also educates engineering consultants and end users on the importance of isolated power systems and ground fault monitoring in hospitals to maximize operational availability and safety for patient and hospital staff.



KATIE SUBBOTINA has attained her Master’s Degree in Emergency and Disaster Management from York University and holds a number of Emergency Management of Ontario certificates, including IMS (Incident Management System) 100, 200, 300, EM 125 (Exercise Program Design), EM 200 (Basic Emergency Management), CSA Z1600 as well as a number of FEMA certificates. During her Master’s degree Katie focused her research on various aspects of first responder health and successfully completed a Major Research Project titled “Health Risk Analysis of Internationally Deploying First Responders”, which was selected for a presentation at the 6th International Conference on Building Resilience in Auckland, New Zealand. Her thesis is now available in print through a Springer publication.

She thrives in engaging stakeholders for program development, facilitating train-the-trainer courses (including: Fire Warden training, hospital evacuation, as well as new employee orientation), in addition to providing various emergency preparedness related tasks.

In her past experiences, Katie has also worked in a healthcare setting where majority of her job revolved around updating policies and providing training to staff on various emergency response codes.



KEN SUNDERMAN P.Eng., MBA is the Business Development Manager for DuBois Chemicals Canada Inc. Ken’s water treatment expertise in commercial, industrial and institutional facilities spans more than 25 years across Western Canada and Yukon. In his years of service, Ken has honed his ability to simplify complex concepts while implementing high performing solutions, making him a trusted advisor and mentor in the industry. Ken serves on the CHES National Corporate Advisory Committee and is also active in several industry member associations.



WAKAKO KIMURA THOMSON is a Project Manager Supporting the Lower Mainland Facilities Maintenance and Operations Safety Program since the official launch in 2017.

Wakako has led the Asset & Risk Management Programs with Lower Mainland Facilities Management (LMFM) since 2010. She has facilitated 300+ risk workshops with facility managers at the four Health Organizations in the Lower Mainland. She has also managed multiple initiatives targeted at reducing identified risks and evaluating outcomes. Wakako also provides leadership and strategic direction for the asset, risk, quality and engineering stewardship of facilities for improved life cycle operation and management for capital projects.

Wakako is a PMP as well as holding Asset Management, Canadian Risk Management and Healthcare Lean Green Belt certifications. She holds an MBA from UBC.



MATTHEW WESTERBERG is an electrical engineer specializing in the analysis of electrical power distribution systems in existing facilities. He has provided arc flash hazard analysis services for Burnaby Hospital, Eagle Ridge Hospital, the Surrey Memorial Hospital Energy Centre, and Queen’s Park Care Centre, among other health care facilities, as well as for numerous commercial, institutional, and industrial buildings.

Matthew graduated from UBC in 2005 with a B.A.Sc. in Electrical Engineering. He has worked since then as an engineering consultant, most recently for Little Mountain Engineering Co., which he started in 2012.



KEN WILSON has been an electrician for 40 years predominantly in a serviceman role. During this time he has worked in almost all facets of the electrical industry. Ken is a FSR A which allows him to work with high voltage.

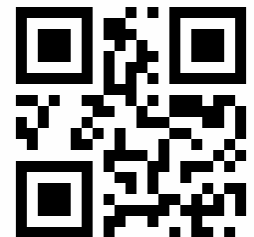
Ken has been overseeing Houle Electric's Power Quality Group for the last few years. His valuable expertise in live electrical work comes from being the person tasked with doing it for many years. Ken is developing Houle's new LIVE TIE IN and Critical Work programs.

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

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