



Construction Specifications Canada

Vancouver Chapter

Specifier - March 2021

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Notes from the Chair

Change has become the norm!

We are gradually changing all of the things that we do.

- Meetings are on virtual by using Skype, Zoom or Teams.
- Grocery shopping is online for a large percentage of the people.
- Visiting friends has become “over the phone” or “at a distance”.
- Etc ...

Things we miss ...

- Going out for dinner!
- Going to the movies!
- Crossing the border for a shopping trip to Bellingham!
- Etc ...

Things we will never miss ...

- Wearing a mask!
- Sanitizing our hands all day!
- Social distancing lines!
- Etc ...

The ***bottom line*** is that the whole world is experiencing this pandemic at the same time. We will get through it together but we will do it safely and protect our friends, co-workers and families.

We are tracking the news everyday and when we can begin to connect in person, we will plan regular meetings, golf tournaments, trade shows and other special events. Until then, we will use technology to bring us together. We miss seeing you all. We ask for your patience and we recognize that we are living in very unique times and definitely experiencing “**Zoom Fatigue**”.

Good luck and stay safe!

Warmest regards,

Brian



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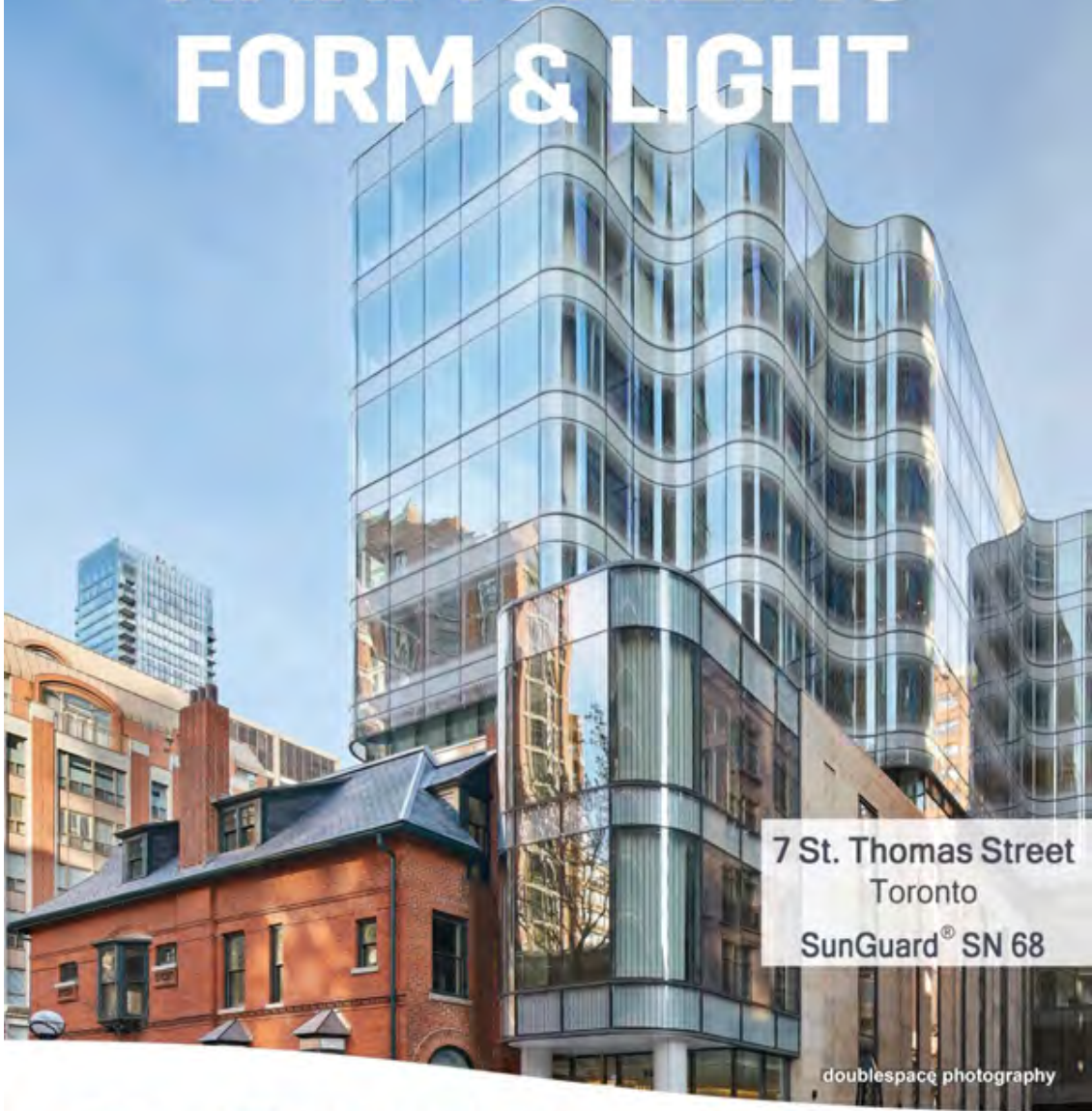
Directors Report - Todd Gerrard

The directors held a virtual Board meeting on November 28th, 2020 via Zoom. This was the first time this has been done via online format, hopefully the last. While it was clear we didn't have much choice in the matter and it seems to be the norm currently, it was a real shame not getting together with the group in person. I honestly felt it to be less impactful, but perhaps that was just my take. Still, I hope in the near distant future we will be able to meet again in person and get some sense of normal in our lives.

On the Conference front, as of now we are still planning on having a full conference in Saskatoon for May 26-May 29, 2021. This situation is still very fluid at this time,

and this could end up being a modified event and very different to years past. The decision will be finalized very soon, so please stay tuned on updates to the Conference for 2021.

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In Memory Elizabeth Burton

2020 was a challenging year for a lot of us with many ups and downs and one of the worst downs felt was the passing of Elizabeth Burton-Brown after an 18-month fight with cancer for the second time. Elizabeth leaves behind her loving husband Michael and two daughters Emily and Megan.

Elizabeth began her career in the field of architecture and interior design by achieving her BID from the University of Manitoba. She then moved to Vancouver and working as a freelance designer for several years before receiving a full-time position at Annand Burton-Brown Architects where she met her husband Michael. From there, she worked at Aitken Wreglesworth & Associates before returning to ABBARCH where she managed their library and opening her own resources & library consulting firm, managing many of the prominent architectural firm's libraries across Vancouver. In that time, she also received her NCIDQ certification from the Council for Interior Design. Elizabeth can also be accredited with helping to lay the groundwork for the organizing and tracking documents now used by AIBC for their CES program.

Anybody who had ever met Elizabeth will quickly say how caring, gentle and upbeat

she was. No matter what kind of day you were having she would do her best to try and make it better. She cared greatly about friends and family and always made sure everyone was well-fed and happy regardless of if it was a social gathering or an office lunch and learn.

Elizabeth will be deeply missed by all.

The Executive Committee at CSC Vancouver Chapter



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WEBINAR: Resilience for Existing Buildings in

the Face of Climate Change - April 8, 2021

***Presented by Gord Rajewski, R.E.T., National Practice Leader,
Building Science and Sustainability***

Environment, Sustainability and Governance (ESG) is becoming top of mind not only within governments but the private sector as well. Stakeholders, investors and employees are demanding that organizations define their plan to meet the threat of extreme weather brought on by climate change. There is now real urgency attached to developing thoughtful responses.

This session will provide background on the topic of Resilient Design, it will explain why resiliency is not a stand-alone subject, that resiliency needs to be combined with energy performance and sustainability. The session will discuss the project elements that need to be understood as owners embark on a greater understanding of their existing building assets, from base line creation through to retrofit completion. We will also discuss options for financing retrofit projects and focus on project case studies that deal with Wildfire, Air Quality and Structural aspects relating to the need for appropriate resilient design measures.

“Over 80 per cent of all buildings standing in 2030 have already been built.” Existing buildings represent the greatest opportunity for net reductions in carbon emissions. Our country cannot reach its emissions reduction goals without including existing buildings.

Learning Objectives:

- To provide background on Resilient Design
- Provide Understanding on the link between Resiliency and Performance and Sustainability
- To provide increased insight on structural aspects relating to the need for appropriate design measures

Sign up Now! - [CLICK HERE TO SIGN UP!](#)

PLATFORM: Zoom Webinar or Phone Call In

A registration email with call-in details will be sent out the evening before (Wednesday, April 7th) and attendees will need to click that link and follow the instructions in order to receive call-in information

DATE: Thursday, April 8th, 2021

TIME: 12:00pm - 1:00pm

COST:

- **\$10.00** plus GST for pre-registered CSC members / Association Executive Directors
- **\$20.00** plus GST for non-members
-



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AIBC Members will receive 1 Core LU (Learning Unit) for attending this event.

Annual Trade Fair & Covid-19

The CSC Vancouver Chapter is currently monitoring the Covid -19 situation closely, and as such we are unable to confirm whether or not we will proceed with our annual Trade Fair. Our top priority is the well-being of our attendees, partners and exhibitors and as such, we will continue to follow the province's guidelines on public gatherings.

Right now, the most important thing all of us can do is focus our attention on helping people with the new challenges we all face. Please know that we remain committed to delivering progressive education, certification, publications and professional networking opportunities for the design + construction community.

We will share more information as it becomes available.



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ActiveIAQ: Accessible Smart Building Technology

Heather Swail, B.Env.St., M.Env. | Senior Project Manager, Indoor Environmental Quality, Pinchin Ltd.

Indoor air quality (IAQ) has long been a concern to building managers, tenants, and employees as most of us spending the majority of our working days indoors. Inadequate indoor air quality can negatively impact our health, well-being, and productivity. Interest in IAQ has heightened in today's climate, as we are faced with a multitude of challenges ranging from wildfires to the global COVID-19 pandemic.

ActiveIAQ is the latest technology solution for IAQ testing. Traditionally, IAQ testing is conducted by using spot-measurements or short-term data-logging and direct reading instrumentation. Measurements are collected on a complaint basis or as part of a proactive testing program (1-4 times a year). Active Indoor Air Quality (IAQ) provides wireless, real-time indoor air quality monitoring, and the pricepoint of quarterly measurements is about 25% of the cost of an ActiveIAQ solution. It's like having an expert in your building 24 hours a day, 7 days a week, 365 days a year. Here's how it works:

ActiveIAQ delivers a fully integrated solution made up of sensors, wireless networking, cloud data management, and a customizable data portal. Sensors are deployed throughout the building to collect real-time IAQ data. ActiveIAQ utilizes LoRaWAN® technology, a low power system that enables ultra long-lasting sensors (10-years) with wireless properties well suited to the built environment. Users can access the data through an online portal to view both historical and real-time IAQ

data. Custom notifications (email and SMS) allow building stakeholders to monitor their buildings proactively or immediately respond to any alert.



Sensors



Wireless Connectivity

Sensors can quickly and easily be re-deployed, enabling real-time monitoring anywhere. The LoRaWAN® system offers thousands of sensor types, most of which are adhesive-mounted and battery operated, providing a ‘peel and stick’ installation process.

ActiveIAQ is a standalone solution that does not require IT deployment or integration with the building’s automation system. And because ActiveIAQ is wireless, no cables or conduits need to be installed. You get secure, accurate indoor air quality data that can be managed remotely via the data management platform.



ActiveIAQ Senors:

- 86mm x 86mm x 27mm
- 10-year battery life
- 2x 3.6V AA Lithium batteries
- Plastic enclosure
- Wall mounting: single screw | adhesive
- AES-128 encryption

Utilizing ActiveIAQ to Mitigate the Risk of COVID-19

ActiveIAQ delivers enhanced value during the COVID-19 pandemic, as building stakeholders are utilizing the system to measure the effectiveness of their COVID-19 Safety Plans. Typical COVID-19 Safety Plans include Risk Assessment, Re-Occupancy Planning, HVAC Optimization, and Space Planning. Real-time

monitoring of carbon dioxide, relative humidity, and airborne particulate (PM_{2.5}) are practical tools to support this validation process.

Carbon Dioxide (CO₂) monitoring measures the adequacy of outdoor air supply relative to the occupant load. Typically, CO₂ concentrations below 1,100 parts per million (ppm) provide acceptable IAQ to the majority of occupants. However, during COVID-19, target concentrations below 800 ppm demonstrate HVAC optimization (increased outdoor air) and effective space planning (low occupancy densities). The American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE) recommends maximizing ventilation and avoiding recirculation to help minimize COVID-19 transmission. ActiveIAQ sensors measure CO₂ concentrations between 0 to 10,000 ppm, with an accuracy of ± 50 ppm.

Maintaining Relative Humidity (RH) between 40-60% reduces COVID-19 transmission for two reasons. Firstly, fomites and virus nuclei are less likely to form in this RH range. Secondly, maintaining RH in this range reduces respiratory irritation and allows our lung tissue to be more resistant to viruses. ActiveIAQ sensors measure RH levels between 1 to 100 %RH, with an accuracy of ± 2% at 25°C.

Airborne Particulate (PM_{2.5}) measures filtration effectiveness (i.e., the building's ventilation and filtration system effectively controls potential respiratory droplets). ASHRAE recommends the installation of MERV-13 filtration or better, where possible. Maintaining PM_{2.5} below 16 µg/m³ is an indicator of effective filtration and ventilation. ActiveIAQ sensors measure PM_{2.5} concentrations between 0 to 500 µg/m³, with an accuracy of ± 10 µg/m³ at 0 to 100 µg/m³.



In addition to the parameters listed above, the ActiveIAQ system will also monitor temperature and occupancy (via a motion detector).

Why consider ActiveIAQ?

As many employees work from home during the COVID-19 pandemic, businesses

rethink how much physical space they need and if employees want to return to the workplace. ActiveIAQ allows building owners to support re-occupancy strategies by delivering on-going data to validate COVID-19 safety plans.

Beyond the enhanced value during the COVID-19 pandemic, ActiveIAQ provides data that supports occupant reassurance about the indoor environment and allows building operators to identify problems in real-time in order to maintain good air quality. ActiveIAQ is the next step in smart buildings and is ready to demonstrate your commitment to a healthy indoor environment.



Full-Time Monitoring

It's like having an expert in your building 24/7/365



Data Analytics

Continuous access to data and custom notifications



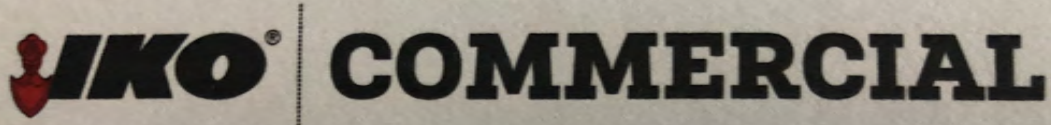
Reporting

Customized self-serve reports can be generated to support occupants and demonstrate compliance



Validation

Real-time confirmation that your buildings are ready for occupancy



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Education Update

Gleen Chatten, Wordclear Specifications

PCD Course

A ten week-long virtual evening course is scheduled to start Wednesday, March 3, 2021 for those who want to receive the certification for this introductory course as a prerequisite for the CSC's TR, CA and Specifier courses. This course is sponsored by the CSC Vancouver Chapter. Instructor: Glenn Chatten

The course will be offered virtually through the MS Teams platform, beginning @

6pm (PST).

Registration Fee for CSC Members \$875.00 + gst / for CSC Non-Members \$1175.00 +gst.

Registration Contact: Glenn Chatten, 778-838-1540 or gchatten@gmail.com

Specifier Course

A seven-week intensive virtual course sponsored by CSC National will begin on Monday, February 22, 2021 for one full day a week, for those who are eager to obtain their Certificate as a Specifying Practitioner. Instructor: Glenn Chatten.

This intensive full day workshop will take place online using the MS Teams platform.

Registration Fee for CSC Members \$875.00 + gst / for CSC Non-Members \$1175.00 +gst.

Registration Contact: Clifton Fiola 416-777-2198 or clifton@on.aibn.com

TR Course

A ten week-long virtual evening course starting Wednesday, May 10, 2021 for those

Manufacturing Representatives who have taken the PCD course to attain their Technical Rep Certificate (CTR). Instructor: Glenn Chatten

The course will be offered virtually through the MS Teams platform, beginning @ 6pm (PST).

Registration Fee for CSC Members \$875.00 + gst / for CSC Non-Members \$1175.00 +gst.

Registration Contact: Glenn Chatten, 778-838-1540 or gchatten@gmail.com

CCA Course

A five-week intensive virtual course sponsored by CSC National is planned to take place starting March 5 2021 for one full day a week, for those who are interested in obtaining their Certificate in Construction Administration.

Registration Fee for CSC Members \$875.00 + gst / for CSC Non-Members \$1175.00 +gst.

Registration Contact: Clifton Fiola 416-777-2198 or clifton@on.aibn.com



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Have an IDEA for the Specifier

We would love to hear from you! Announcements, upcoming events, or technical articles are welcome and encouraged! Any submissions for the Specifier can be emailed for review and we will do our best to get it into print. Deadlines are the last Friday of the month for the following month's newsletter. Share your knowledge — this is YOUR industry!

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