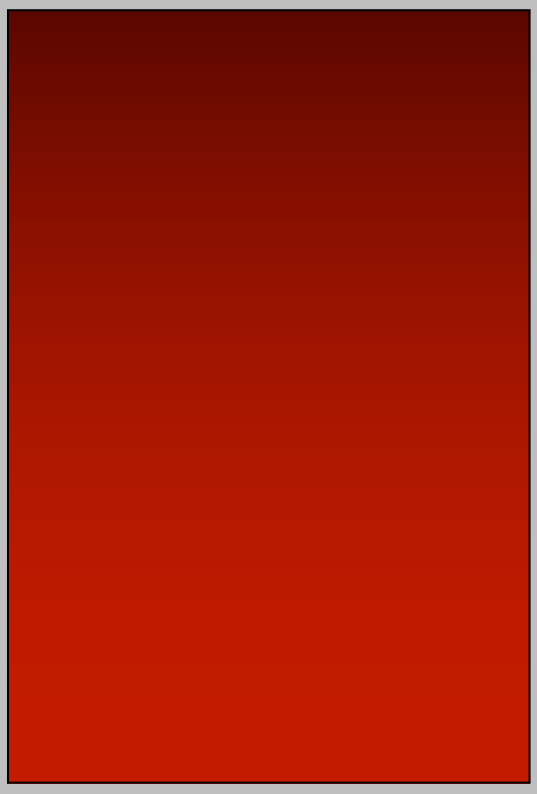
the edmonton Specifier

Construction Specifications Canada is an organization representing diverse interests in the construction industry and related professions. It is dedicated to improving the quality and flow of information between these interests, whether in the form of specifications, contract administration or marketing.

December 2022 Edition

Editor: Tracey Stawnichy

In This Edition...



Happy Holidays From Your Edmonton Chapter Executive!

2022 / 2023 Edmonton Chapter Executive

Director	Tracey Stawnichy	780 994 3699
Chairman	Andrew Brassington	587 341 5268
Vice-Chairman	Dylan Leclair	587 335 9552
Secretary	Jessica Prosser	587 340 7169
Treasurer	Catherine Osborne	780 705 7108
Architect	Kevin Osborne	780 717 1007
Chapter Liaison	Position Open	
Education	Mike Ewaskiw	780 237 7844
Engineer	Jamie Murphy	780 983 0288
General Contractor	Renee McKenzie	780 717 7798
Interior Design	Corry Bent	780 995 1647
Manufacturer/Supplier	Mike Lafontaine	780 907 4920
Marketing, Promotion, and Communications	Jamie Murphy	780 983 0288
Membership	Dave Lawrence	780 901 7260
Newsletter	Tracey Stawnichy	780 994 3699
Specifications	David Watson	780 758 4147
Website Administrator	David Watson	780 758 4147
Trade Contractor	Kevin Kramers	587 232 0613
Program	Jessica Prosser	587 340 7169
Owner's Rep	Cam Munro	780 231 1739
Sustainability	Position Open	
At Large	Dave Lawrence	780 901 7260

Advertising Rates

Business Card: April 1 to May 30
Rates cover your ad on our website 24 hours per day, 7 days per week.
Business card on-line:
Annual $100 if received by May 1;
$75 if received by August 1;
$50 if received by November 1;
$25 if received by February 1
Add $50 to have a link to your company web site from the CSC Edmonton Chapter web page.

Chapter Sponsor

New Chapter Sponsor Bundles:
edmonton.csc-dcc.ca/About+Us/Sponsor+Opportunities+-+CSC+Edmonton+Chapter/

Student Sponsor

Meeting Sponsor

$50 for Individual (personal) Sponsor
$250 for Corporate Sponsor

FOR FURTHER INFORMATION

Contact any member of the Executive, attend one of our Chapter Meetings, send your name and address to CSC Edmonton Chapter, PO Box 35093 Mid Town PO. Edmonton, AB T5J 0B7, or go to edmonton.csc-dcc.ca for additional contact information.

GOALS OF CSC

Construction Specifications Canada is a multi-disciplinary non-profit association dedicated to the improvement of communication, contract documentation, and technical information in the Construction Industry. CSC is a national Association with Chapters in most major Canadian Cities.

To this end, CSC pursues the study of systems and procedures that will improve the coordination and dissemination of information relevant to the construction process.
We seek to enhance the quality of the design and management aspects of the construction activity through programs of publication, education, and professional development, believing that by so doing, we can contribute best to the efficiency and effectiveness of the construction industry as a whole.

OBJECTIVES OF CSC

To foster the interest of those who are engaged in or who are affected by the compilation or use any forms of specifications for the construction industry.

To publish literature pertaining to the construction industry.

To engage in activities to improve procedures and techniques related to the construction industry.

Announcements:

Congratulations to the newly-formed Okanagan Chapter!

Congratulations to Keith Robinson who was presented with the CSC President's Award!

Chair's Message

Andrew Brassington, CSC Edmonton | Chapter Chair

Happy Holidays, Chapter Members!

The holiday season is upon us. Special thank you to NAIT for their appreciation video. This is the season for giving. We are looking for more opportunities to work with them help support the industry.

We held a great event at the Aviation Museum last month. Honourable mention to Keith Robinson who received his President's Award presented by Immediate Past-President Kim Tompkins.

Keep on the lookout for more events in the new year!

From all of us at the Chapter Executive, have a great holiday and a happy new year!

Membership in CSC

Dave Lawrence

In the construction industry's fast-paced environment, the need for and value of Construction Specifications Canada is greater than ever. CSC brings together individuals from all segments of the construction industry. All who have a vested interest in Canada's largest industry are invited to join CSC. When you join CSC, you become part of the only association that brings together professionals from all aspects of the construction industry.

DESIGN TEAM

CSC offers members of the Design Team the opportunity to meet with other members and exchange information. It also affords you the chance to help improve technology and its management, and the means to improve ways in which your ideals are translated into clear, concise, and complete documentation.

BUILDING TEAM

If you are a member of the Building Team, CSC offers you the opportunity to become involved in formulating specifications. Your valuable input into the programs can help generate time and cost savings, as well as improve performance.

SUPPLY TEAM

The multi-disciplinary composition of CSC allows members of the Supply Team to meet with other members of the construction team. CSC programs in data filing and information retrieval are geared to present convenient and concise information on your products for proper evaluation and specification.

THE STUDENT

If you are a student of architecture, engineering, or construction technology, CSC will provide you with a greater exposure to, and a better understanding of, the construction industry, giving you an excellent opportunity if you plan a career in the construction field.

People and Places – Welcome to new and past CSC Edmonton Chapter Members!

Fresh Faces (New Members)

Justin Thompson
Technical Sales Representative
Carlisle Spray Foam Insulations
14731 – 95A Street NW, Edmonton, AB T5E 4A5
P: (780) 224-2358
Email: jthompson@carlislesfi.com

Yes, We've Moved (Contact / Mailing Address Update)

Ken McNamara, CCCA
Project Manager
McNamara Engineering Technology & Design
118, 54418 RR 251, Sturgeon County, AB T8T 0C7
P: (780) 221-5014
Email: ken@mcnamaradesign.ca

Devin McIntosh
Senior Architectural Technologist
TBD Architecture & Planning
9916 – 81 Avenue NW, Edmonton, AB T6E 1W3
P: (780) 970-7100
Email: dmcintosh@tbdarch.com

Aamir Shaikh
Building Science Project Manager
EXP Services Inc.
101, 8616 – 51 Avenue, Edmonton, AB T6E 6E6
P: (587) 983-8315
Email: Aamir.Shaikh@exp.com

Previous Members Re-Joining / Re-Activated

None this month.

CSC Education:

Mike Ewaskiw, CTR

Principles of Construction Documentation

The PCD course is an introductory course that will enable the student to have a better understanding of construction documentation (specifications, drawings, and schedules), products, bidding procedures, and contracts**. It is also a prerequisite to all the other CSC education courses.**

Specifier 1

Specifier 1 is an intermediate level course that will take the individual beyond the concepts previously introduced in the PCD Course. Although some of the same topics are included, the depth of comprehension and explanation exceed that of the PCD course. The Specifier 1 is a prerequisite for the Certified Specification Practitioner (CSP) designation from CSC. Successful completion of the course may be credited toward the experience component requirements for the Registered Specification Writer (RSW) designation.

Technical Representative

The TR course provides a better understanding of contract documents and bidding procedures, product representation, professionalism, and ethics, and will provide a new depth of understanding and explanation of concepts beyond what was previously introduced in the PCD course. The course is designed for the individual

involved in the supply section of the construction industry, such as manufacturer representatives, agents, or distributors of products. The student will have successfully completed the PCD course.

Contact Mike for all your education needs.

Mike Ewaskiw, CTR, Manager
Architectural & Engineering Services
P: 780-237-7844 E: mewaskiw@stonhard.com

EDUCATION COURSES

Upcoming Classes:

Principals of Construction Documentation (PCD) – September 12, 2022 – November 7, 2022
Specifier – TBD
Construction Contract Administration (CCA) – TBD
Technical Representative (TR) – TBD

Upcoming Classes Online:

Principles of Construction Documentation (PCD) – TBD
Construction Contract Administrator (CCA) – TBD
Specifier – TBD
Technical Representative (TR) – TBD

Upcoming Virtual Classes:

Principles of Construction Documentation (PCD) – TBD
Construction Contract Administration (CCA) – November 18, 2022 (5 weeks)
Specifier (SP) – November 4, 2022 (7 weeks)
Technical Representative (TR) – November 18 (5 weeks)

Social Media:

Check us out:

MEET YOUR CSC EXECUTIVE COMMITTEE MEMBERS

Mike Lafontaine, CTR

Officer – Manufacturing

Expocrete – Edmonton Manufacturing Centre

What motivated you to join this industry?

Liked the real people I met, and the ability to have common sense conversations with little BS and drama.

How long have you been in the industry?

Seventeen years.

What's the one thing people would be surprised to learn about you?

I worked and lived all over Europe when I was much younger, while there I sunk a boat in Holland.

What's the most interesting project you have been a part of?

Lots for sure, but a few notables would be the Edmonton Remand Project, Anne Anderson School, the Holiday Inn on Gasoline alley is great because it uses a special colour and size blend that we custom made for the job.

What is one thing you like to see in the next 20 years?

People building with longevity and leaving behind something for others to enjoy. For example, the Edmonton Legislature Building – how many people go there in the summer? How many people take wedding or grad photos at that building? Ask yourself why. It's because deep down you know the building will be there when you are older. It creates emotions and memories. Those are the buildings that I would love to see more of.

Articles of Interest

Architects Must Lead in Low Carbon Construction

Sourced from: https://canada.constructconnect.com / Angela Gismondi

Mass timber construction is on the rise in Canada and around the world and architects are finding creative and innovative ways to integrate it into their building designs.

Architects who took part in the International Architectural Roundtable held at The Buildings Show in Toronto Dec. 4 pointed out that the building and construction industries are responsible for about half of all greenhouse gas emissions in the world and that it's time for change. Also, it is time for architects to be advocates for low carbon construction.

"As an architect you can be part of the problem or part of the solution," stated Andrew Waugh, founding director at Waugh Thistleton Architects in London, U.K.

"The reason why we do this is all about climate change. It's not just about the architecture and it's not just about the operation of these buildings, we need to really seriously consider the materials, the process and the culture in the buildings we provide."

The session was billed Mass Timber: Proactive Possibilities of Inventive Design with Wood.

"Mass timber and wood construction can be used to sequester the carbon and will contribute to addressing the problem and solving the problem rather than worsening it," explained Elsa Lam, editor of Canadian Architect Magazine, who moderated the panel. "Since Canada has so many well-managed forests and produces wood it seems natural that we should be advancing our community on mass timber, how to use it and deploy it."

Alan Organschi, principal at Gray Organschi Architecture, agreed mass timber construction is the future.

"What I'm really interested in is not only emissions but the capacity of materials to store carbon," he said. "When you start to compare these systems, you see that timber starts to perform really well."

He talked about a 14,000-square-foot addition he completed at Common Ground High School in New Haven, Connecticut integrating sustainable design to reduce its carbon impact. It features a mass timber structure with a prefabricated system of wall and roof components.

The challenge, he said, was integrating the new building into the fabric of farm buildings, agricultural fields, forests and wetlands that surround the property.

"We said we want to load as much carbon into this building as possible," he noted. "We wanted to give it as much primary structural material as possible so they can really understand exactly what the building was made out of."

Haut is a 73-metre, 21-storey hybrid timber and concrete high rise under construction in Amsterdam.

Once complete it will store 2,200 tonnes of CO2. While the primary building material is timber, the basement, ground floor, first floor and core of the building are made of concrete and every floor has a layer of concrete for sound, explained Do Janne Vermeulen, founding partner and architect at Team V Architecture in Amsterdam.

"To create these sorts of buildings we have six to-dos on our list: build healthy, active urban spaces, create high quality public transport, build tall, do not demolish, build multi-functional buildings; and engage and customize," said Vermeulen, adding timber can be used to build on top of existing buildings.

The firm was selected to build the tower following a competition by the municipality.

“We didn’t win because we put the highest financial bid, we won because we had the best proposal for a sustainable and architectural building,” she noted. “This is where the government can really help make a change in the way we build.”

“Let’s not ever limit our thinking of putting timber in buildings,” she added. “Even if they are complex initiatives, we should still aim figure out how we can include timber in our infrastructure.”

Waugh spoke about a project he worked on called Dalston Works, a 10-storey 121-unit development and the world’s largest CLT building in London.

“As well as tackling London’s need for high quality, high-density housing that provides a natural and healthy living environment, this groundbreaking use of timber technology has significantly reduced the carbon footprint of the building in terms of both material production and on-site time and energy consumption,” states the architect’s website.

Hullmark Development’s five storey 80 Atlantic project in Toronto’s Liberty Village neighbourhood is the first new timber-frame commercial building to be constructed in the city in over a generation, explained Richard Witt, principal at Toronto-based Quadrangle.

He said the vision was to take the best attributes of post and beam construction such as beautiful, bright and warm and combine it with the best characteristics of new concrete office towers such as technologically equipped, customizable, contemporary amenities, clean and energy efficient.

“We thought ‘why do we have to choose one or the other, why can’t we have both,’” said Witt.

“We didn’t begin by saying it has to be a wood building. It turned out that using timber is equal to 22 years of operational energy which is huge.”

He had some advice for the delegates in attendance.

“It’s very easy in all of these projects to say ‘no,’ but what if we all say, ‘yes it can be done, it should be done’ and be the ones to lead it,” said Witt.

35% of Global Project Spend is Burned Up in Disputes – This Tragic Waste is Unnecessary

Sourced from: https://www.globalconstructionreview.com / Harry Coledge and Julia Humpidge, HKA

The amount of money wasted on disputes in major projects around the world is astonishing.

At more than $98m per project, the average value of contested costs amounts to 35.1% of project capital expenditure (capex). That money could be spent on making people’s lives better.

The impact on schedules is no less damaging: claimed time extensions prolong project schedules by over two thirds (68.6%) on average. That means ordinary people are waiting longer than they need to for critical infrastructure to improve their lives.

We can control this

Our fifth annual CRUX Insight Report investigated 1,600 projects in 100 countries to chart the underlying causes of claims and disputes.

A complicated web of factors cause disputes. Some are beyond our control, such as inflation and the lingering effects of the pandemic. The high-risk, low margin contracting model amplifies these dangers.

But many are down to how projects are scoped and managed, which is something we can control.

The biggest cause of claims and disputes is the poor management of changes in project scope.

Second is misinterpretation of contracts, suggesting a lack of care, time and competence among the parties.

Incorrect design is the third top cause of project distress, and other design-related failures feature prominently.

Different regions, different emphases

Below, we touch on some interesting regional variations, which you can explore in greater depth at the CRUX Interactive Dashboard.

But as you explore, keep in mind that most of these problems can be alleviated with better planning, proactive management, and collaboration.

Africa

Programmes here are susceptible to longer overruns than most other regions: almost 83% of planned schedules on average.

Restrictions on site access remained the leading cause. Better integration of operational practices and approvals for site works would solve this problem, which was already endemic before Covid.

Project leaders need to promote transparency from procurement through to claims management to strengthen governance and contract administration.

Americas

The dominant causes of disputes here – change in scope, unforeseen physical conditions, and deficiencies in design or workmanship – arise from short-sighted attempts to save time and money up front.

Claimed costs already exceed a third (33.8%) of average project capital expenditure (capex). With timelines and budgets stretched, acute skills shortages and rising labour and input costs risk overheating in North America.

Public projects need to be carefully phased to temper construction inflation.

Asia

Here, the pandemic led to frequent restrictions on access to sites and late approvals. Shocks continue to reverberate through supply chains originating in China.

Average sums in dispute (27.8% of capex) are below the global average, but action is needed on price adjustment clauses and efforts to hedge on raw material prices.

Asia has had a comparatively claims-averse contracting culture, but that’s changing. Notices no longer just signify aggression, but rather diligent contract administration.

We expect a shift to more technical disputes over time, founded on well-structured evidence.

Europe

Contentious costs here are the highest globally – 38.3% of average capex – fuelled by energy and general inflation.

Deficiencies in workmanship and lack of skills also loom larger here.

Doubling down on proven contract management practices can alleviate common problems of design,

contract interpretation, the management of subcontractors and contract administration.

Greater clarity in force majeure clauses is necessary but loading responsibility for future pandemics on contractors would be a backward step for risk management.

Middle East

This region matches Africa for longest overruns: on average, schedules run over by more than 80%.

Claimed costs are at the higher end and typically amount to 35.8% of capex.

Top dispute causes are change in scope and late or incomplete design information.

Late approvals and poor cashflow spring from weak contract administration.

With markets overheating and a strong project pipeline in Gulf states, a re-balancing of risk allocation is long overdue.

Oceania

A blizzard of major infrastructure projects is straining the industry's capacity in Australia and New Zealand.

The root cause of many conflicts lies upstream in the planning, development and procurement of projects. A more strategic approach is required at project and government levels.

Project owners should set realistic objectives and engage better with the construction supply chain.

State and national governments should take account of the bigger picture and phase their pipelines accordingly.

Deploying modern construction techniques will boost productivity and sustainability.

To conclude, we'll leave you with this: claims and disputes are not inevitable, like forces of nature.

They arise from poor decisions and a lack of awareness of what, demonstrably, leads to waste and delay.

Ice Cube Necklace Aims to Demonstrate that Water is "One of the Most Sought-After Luxury Goods"

Sourced from: https://www.dezeen.com / Katie Last

Paris-based design studio Golem has created the OoOoooOoooOh la l'ice necklace that is made from ice cubes and melts within 30 minutes.

iceDesigned by Golem in collaboration with Laila El Mehelmy, the necklace aims to celebrate the value of water and was created to be worn frozen before melting after half an hour.

The designers developed the necklace during this summer's heatwave in Berlin.

"The idea came during a hot 24-hour party in Club Der Visionaere, Berlin," studio founder Ariel Claudet told Dezeen. "In a survival move to

overcome the crushing heat of one of the hottest summers Germany has ever experienced, partygoers started to grab ice cubes from the freezers and rub each other with it."

The necklace by Golem and Laila el Mehelmy features 7 ice cubes on a chain of silver beads.

According to the designers, the piece shows the increasing value that water is developing due to increasing temperatures across the globe.

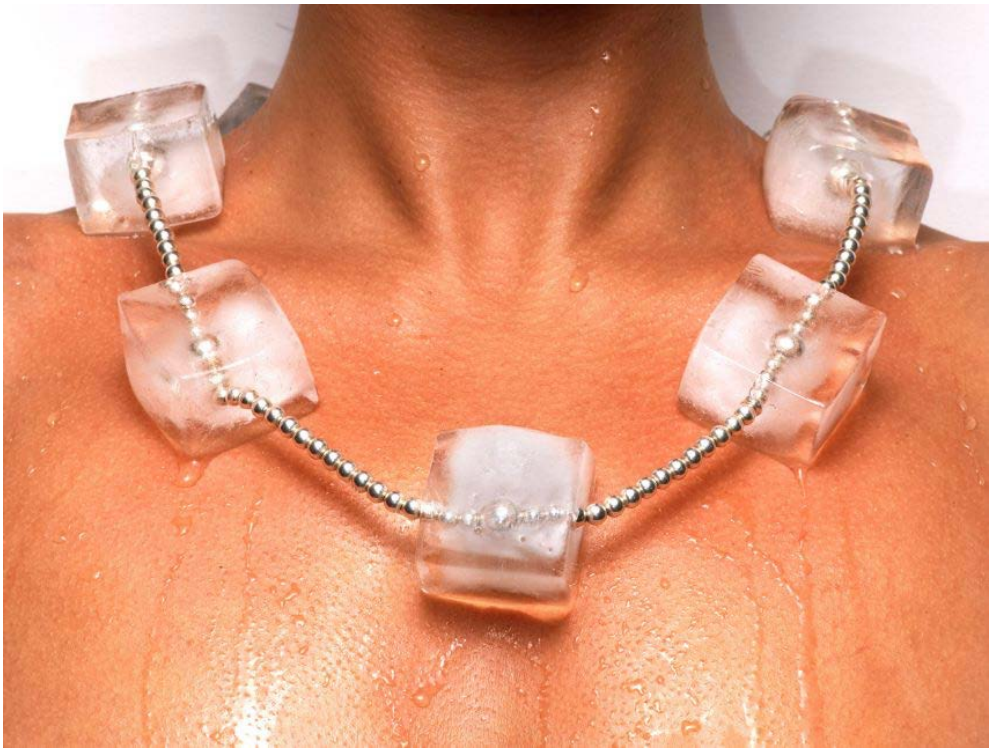
"At a time when water sources are being privatised and water scarcity is striking all countries across the globe, water is turning from an overlooked commodity into one of the most sought-after luxury goods," Claudet observed.

The necklace comes with a custom-made silicone tray that allows the wearer to freeze it on demand. After being taken out of the freezer tray, the necklace features seven ice cubes linked by solid silver beads.

Larger beads mark the centre of where each ice cube sits.

When not frozen, the necklace can be worn as a regular silver-beaded necklace or a choker.

The ice cubes melt after half an hour of contact with warm skin.



"When worn as a simple solid silver necklace, the larger beads mark where a water gem once stood and where a new one will one day solidify again," said Claudet. "It was important to us that when not frozen it is still a beautiful piece."

"We like the idea of the wearer appropriating the piece," Claudet continued. "A client from Greece told us she will use cocktails instead of water so people would gather and lick her body while she dances in Mykonos. Another client from Albania had us explain to a 3 Michelin star chef how to use it so it was brought for dessert on a silver tray as a gift for a friend of his."

Chicago Could Become Site of the Great Lakes' First Offshore Wind Farm

Sourced From: Sourced from: https://archinect.com / Nathaniel Bahadursingh

Image: pxhere

If state Rep. Marcus Evans has his way, Chicago will enter the race to build the first offshore wind farm on the Great Lakes. Evans has introduced a bill that lays the groundwork for a proposed wind farm in Lake Michigan, about 10 miles from the shores of the Southeast Side. The bill sets up a fund that would help the state to compete for federal money, including $230 million for port infrastructure projects available from the U.S. Department of Transportation. — Chicago Tribune

Evans introduced the bill, the Illinois Rust Belt to Green Belt Pilot Program Act, in January. The legislation would establish a path toward creating the offshore wind farm by allowing the state to apply for federal infrastructure funds. The proposal promises to create over 1,200 jobs, primarily occupied by underrepresented populations, an aim bolstered by its potential location near Black and Latino communities. The bill has since been referred to a House committee.

Illinois will face competition from Ohio and New York state in its quest to be the first home of an offshore wind farm via the Great Lakes as the two states are developing plans to respectively establish farms in Lake Erie.

As reported by the Chicago Tribune, the initiative has garnered support from local community groups, however, there remain reservations due to concerns over whether the promise to reserve jobs created from the proposed bill for Black people would be kept. Blacks in Green, a green community economic development nonprofit based in Chicago's South Side, is withholding its support until relevant labor unions provide a structured plan for racial diversity and inclusion.

ASSOCIATION LINKS

- **Alberta Construction Safety Association (ACSA)**
  www.acsa-safety.org
- **Alberta Building Envelope Council (ABEC)**
  www.abecnorth.org
- **Building Information Modeling (BIM) Forum**
  www.insightinfo.com/bimforum
- **Biomimicry Guild**
  www.biomimicryguild.com
- **Canadian Green Building Council (CaGBC)** www.cagbc.org
- **CCDC Documents**
  www.ccdc.org/home.html
- **Architecture 2030**
  www.architecture2030.org
- **BuildingSMART Alliance** (North American Chapter of BuildingSMART):
  www.buildingsmartalliance.com
  BuildingSMART International (formerly IAI)
  www.buildingsmart.com
- **Biomimicry Institute**
  www.biomimicryinstitute.org
- **Canada BIM Council**
  www.canbim.com
- **Canadian Green Building Council (CaGBC) – Alberta Chapter:**

- **Construction Specifications Institute (CSI)** www.csinet.org
- **International Construction Information Society (ICIS)** www.icis.org
- **OmniClass**
  www.omniclass.ca
  www.omniclass.org
- **Uniformat**
  www.csinet.org/uniformat
- **Institute for BIM in Canada (IBM)**
  www.ibc-bim.ca
  www.cagbc/chapters/alberta
- **Construction Specifications Canada (CSC)**
  www.csc-dcc.ca
- **buildingSMART Data Dictionary**
  bsdd.buildingsmart.org
- **MasterFormat**
(https://secure.spex.ca/siteadmin/freedocuments/images/1.pdf)

- **buildingSMART Canada**
  www.buildingsmartcanada.ca
- **Ace BIM**
  www.acebim.ca

ASSOCIATION LIAISONS

Alberta Association of Architects (AAA)
http://www.aaa.ab.ca/

Alberta Painting Contractors Association (APCA)
www.apca.ca

Alberta Wall & Ceiling Association (AWCA)
http://awca.ca

Alberta Roofing Contractors Association (ARCA)
http://www.arcaonline.ca
info@arcaonline.ca

American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)
http://www.ashrae.org/ / ashrae@ashrae.org

The Canadian Wood Council (CWC)
http://www.cwc.ca
info@cwc.ca

Portland Cement Association
ConcreteTechnology@cement.org

Interior Designers of Alberta
www.interiordesignalberta.com

Alberta Painting Contractors Association (APCA)
www.apca.ca

Association of Professional Engineers, Geologists, and Geophysicists of Alberta (APEGGA)
http://www.apegga.org/ dward@apegga.org

Association of Science and Engineering Technology Professionals of Alberta (ASET)
http://www.aset.ab.ca/
Russ Medvedev, russm@aset.ab.ca

Building Owners and Managers Association (BOMA)
http://www.bomaedmonton.org/ /
edmonton@boma.ca

Consulting Engineers of Alberta (CEA)
http://www.cea.ca/ info@cea.ca

Edmonton Construction Association
www.edmca/.com
contact@edmca.com

Terrazzo, Tile & Marble Association of Canada (TTMAC)
http://www.ttmac.com/
association@ttmac.com

Bulletin Board

Message from the Executive:

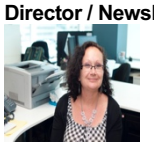
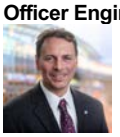
We in the Executive are looking for creative-minded individuals who can take on a position and follow through with ideas…if this is YOU, send a message to information@cscedmonton.ca and we will be quick to get back to you!

Open Positions Include:

Chapter Liaison
Sustainability

You don't need to be a member of the Committee to come and participate in our monthly Chapter meetings but watch out if you do! You may find yourself holding a position…maybe even as Chapter Chair…

The Executive

Director / Newsletter Editor  Tracey Stawnichy, LEED AP, CSC Contract Administrator ACI Architects Inc. P: 780-994-3699 tstawnichy@aci-arch.com	**Chair**  Andrew Brassington, CTR Western Canada Sales Rep ROCKWOOL P: 587-341-5268 Andrew.brassington@rockwool.com	**Vice-Chair**  Dylan Leclair, CTR IKO Commercial P: 587-335-9552 Dylan.leclair@iko.com	**Treasurer**  Catherine Osborne GH Construction Ltd. P: 780-705-7108 catherine@ghconstruction.ca
Secretary  Jessica Prosser Project Manager Fullster Iron P: 587-340-7169 jprosser@fullsteriron.com	**Officer Architect**  Kevin Osborne, CET, CSC Consultant Holo-Blok P: 780-717-1007 kevin@holo-blok.com	**Officer Specifications & Website Development**  David Watson FCSC, CET President NBS (Canada) (formerly Digicon) P: 780-758-4147 David.Watson@theNBS.com	**Officer Professional Development**  Mike Ewaskiw, CTR Architectural & Engineering Services Manager Stonhard / Fibergrate P: 780-237-7844 MEwaskiw@stonhard.com
Officer Engineer  Jamie Murphy, RET, P.L. (Eng), CCCA, LEED AP, Principal Read Jones Christoffersen P: 587-745-0266 JMurphy@rjc.ca	**Officer Interior Design**  Corry Bent, DID, BA Design cbent@shaw.ca	**Officer Contractor**  Renee McKenzie, Project Manager Jen-Col Construction P: 780-717-7798 mckren40@gmail.com	**Officer Manufacturing**  Mike Lafontaine Expocrete P: 780-962-4010 Mike.Lafontaine@oldcastle.com
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Officer Marketing  Position Open	**Officer Trade Contractor**  Kevin Kramers, CET, CTR, RRO ARCA – Technical Officer P: 587-232-0613 technical@arcaonline.ca	**Officer – Owner's Rep**  Cam Munro, CTR Alberta Infrastructure P: 780-231-1739 Cam.munro@gov.ab.ca	