



The Toronto Specifier

Series 39, Edition 7, March 2012

Content Co-ordinator: Steve Ioannides

Editor: Lori Brooks

2011

September 13

Union Station Revitalization Project

October 4

Ontario Painting Contractors
Association

November 28

ULC Facility Tour

December 6

CSC/Ontario Glass & Metal
Association Joint Meeting

2012

January 10

Wind Uplift Resistance

February 7

Economic Outlook

February 24

4th Annual Curling Bonspiel

March 5

No Frills Trade Show

April 3

Zinc Panels

May 1

Retaining Walls/ACM

August

Annual Golf Tournament

CSC (Construction Specifications Canada) is a non-profit association committed to the ongoing development and delivery of quality education programs, publications and services for the betterment of the construction community.

34TH ANNUAL NO FRILLS TRADE SHOW

date: Monday, March 5, 2012

event: Trade Show Luncheon

topic: URBAN REDEVELOPMENT IN TORONTO

speaker: Ken Greenberg, Principal, Greenberg Consultants Inc.
For over three decades, Mr. Greenberg has played a pivotal role on public and private assignments in urban settings throughout North America and Europe, focusing on the rejuvenation of downtowns, waterfronts, neighborhoods and on campus master planning, regional growth management and new community planning.
(See page 5 for more details.)

location: Metro Toronto Convention Centre (North Building)
255 Front Street West, Toronto, ON

time: 11:30 a.m. Luncheon
1:15 p.m. Show Opens
1:30 p.m. Lecture Series Begins
2:30 p.m. Student Seminar
6:00 p.m. Show Closes

info: Visit the Trade Show website at www.csctradeshow.com to register for the show. Click [here](#) to book your luncheon ticket.

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You've Got Mail!

E-mail... a means of communication that we've become so accustomed to we wonder how we ever lived without it and yet it's still relatively new. It was only around 15 years ago that I discovered a wonderful new medium with which I could communicate quite handily to friends and family overseas; provided of course that they were similarly enlightened. America Online was readily available through my basic telephone line and for a reasonable monthly rate (billed by the minute!). I could send missives around the world at the click of a button on this new mouse thingy I'd bought. Heck, I was using e-mail even before the company I worked for had it and there are still business cards of mine out there with an address of stevig010@aol.com. Sure, go ahead and try it!



Steve Gusterson
Chair

My, how times have changed. Return from vacation and find 100, 200, 300 new e-mails in your inbox and don't forget that every sender is expecting a prompt response. Perhaps you take your mobile device with you so that you can keep up with incoming mail while you're on vacation. How crazy would that have sounded 15 years ago?

The sad part is that e-mail, as convenient as it may be, has taken away much of the personal interaction that we once had with each other. In the hectic world in which we live, people will defer to e-mail to save the time that a telephone call takes. Sadly, the time that's saved is the part of the conversation where we may just get to know someone a little better. E-mail is convenient, brief and direct; no opportunity to find out how Joe's wife is doing or what universities their son has applied to.

When we have conversations with each other, the words we speak are only a small part of the communication between us. Tone, inflection, facial expressions and body language are a far greater means of

connection than the words themselves. We lose all of those opportunities with e-mails and each of us can cite an example where the tone or intention of an e-mail was mistaken by the recipient(s). I think that may be why we created "smileys."

E-mail is also used a buffer between us in difficult situations. Most people find it much easier to send a

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It's back... The #1 Construction Trade Show of the Year

Had enough of technical representatives from around North America, who you know you will never see again once that big trade show is over? Want local technical representatives, who understand our construction market, climate and our clients? Had enough of flashy iPads and 42" screens showing videos or presenting products? Want a technical representative to explain how these systems work, or how these new products are going to shape our industry for years to come?

Well the opportunity is finally back: the Toronto Chapter's "No Frills Trade Show." The one-day event features over 175 different manufacturers, jammed into one room for one afternoon.

To add to this vast learning opportunity, three lecture series topics have been added, as well as two different demonstration areas, all on the show floor. Why pull people off the show floor and cram them into small hot rooms when we can house it all together?

The lecture series features three topics of growing interest in our industry. The first is a BIM update, Tools of the Trade, presented by Kurt Ameringer, Director of Virtual Design and Construction, which will take place from 1:30


p.m. to 2:30 p.m. The presentation will include case studies showcasing new technologies and processes that provide an open approach to interdisciplinary collaboration, which can greatly broaden designers' options for communication, coordination and additional services.

The second lecture series topic, running from 3:00 p.m. to 4:00 p.m., is a Construction Industry Legal Update, presented by Dr. Soizic Reynal de St. Michel, Associate in the Construction Law section of the Advocacy Group at Cassels Brock & Blackwell, LLP in Toronto. This presentation will focus on the *Lien Act* as it applies to architects, specification writers and other consultants, and discuss issues such as liens and breach of trust claims, and in particular, what consultants should look out for.

The final lecture series rounds out the afternoon between 4:30 p.m. and 5:30 p.m., featuring Dr. Mark Gorgolewski, Director for Graduate Program in Building Science Department of Architectural Science at Ryerson University. This presentation will discuss how some designers have recently started to consider urban agriculture as a focal point in new types of urban spaces and buildings, therefore developing more locally based food systems, within growing urban populations and densities.

The demonstration areas will feature two industry leaders within the tiling industry. Flextile Ltd. will lead off the demonstrations, showcasing installation of mortar, waterproofing membranes and grouts. Schluter System will close out the demonstrations by exposing the audience to new and innovative products to complete the tile installation.

This information and more, including free attendance badge creation, can be found on the No Frills Trade Show Website, www.csctradeshow.com.

Remember, attendance is FREE! Help support CSC and your Toronto Chapter by attending this once-a-year opportunity. EXHIBITORS WANT TO SEE YOU! 



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Second Vice-Chair



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A brand-new IIDEX/NeoCon Canada

Spring is on its way! A few updates from IDC and ARIDO...

Joining forces for the first time, Interior Designers of Canada (IDC) and Architecture Canada | RAIC are pleased to announce their historic new collaboration as co-presenters of IIDEX/NeoCon Canada, Canada's National Design + Architecture Exposition & Conference. The move promises to bring the two professions closer together, fostering knowledge sharing, innovation and growth within the Canadian design landscape.



Susan Tienhaara
Interior Design Officer

For the past 27 years, IIDEX/NeoCon Canada — already Canada's largest national Design Expo & Conference — has been bringing attendees the latest products, education and networking opportunities for trade professionals working in all areas of design, including workplace, hospitality, health-

care, retail, residential and institutional projects. As the RAIC joins IDC as co-presenters of IIDEX/NeoCon Canada, the show's multidisciplinary focus will expand to include a significant new section of the show, the Architecture Canada Expo, which will focus on interior architectural and technology products, offering architects and interior designers a broader array of products with an enhanced educational and networking program to match.

IDC and the RAIC's co-presentation of IIDEX/NeoCon Canada will coincide with the launch of the Architecture Canada Expo at IIDEX 2012 and build on the sector-based diversification strategy launched by IIDEX/NeoCon Canada last year with Hospitality Canada.

The Ontario Government is introducing five sets of mandatory standards under the *Accessibility for Ontarians with Disabilities Act* (AODA). These standards require public- and private-sector organizations to remove and prevent barriers to accessibility for customers and employees with disabilities. The legisla-

tion is part of the Ministry of Community and Social Services' (MCSS) plan to ensure that, by 2025, people with disabilities are able to participate in and enjoy opportunities available to people without disabilities. As part of the AODA legislation, every business in Ontario that provides goods or services to the public and has at least one employee will have to comply with *Accessibility Standards for Customer Service* by January 1, 2012.

Planning ahead can help keep people safe. You may have an evacuation plan for your employees, or post warning signs for the public. The key is giving people the information they need; including people with disabilities.

Ontario's accessibility standards can help you make information accessible so everyone has the information they need to stay safe. The standards apply to all organizations in Ontario with at least one employee, including:

- private companies;
- non-profit organizations;
- public sector organizations, and;
- the Government of Ontario.

Starting January 1, 2012:

- work with your employees who have a disability to figure out what information they might need in an emergency; and
- make public emergency information accessible, upon request.

Interior Design Tips:

If you want to make a room look bigger, use mirrors. They give an illusion of more space. Colours too affect the illusion of space. A monochromatic colour scheme like off-whites, cream and beige will give you an appearance of more space, while warm colours like deep red will give an impression of a smaller space. On the other hand, cool colours like sky blue and light green will give an appearance of openness.

Hottest green design materials: bamboo, concrete, cork, LED lighting, non-toxic paint, natural plaster, reclaimed wood, recycled glass, recycled aluminum, and recycled paper. ✍️

34th Annual No Frills Trade Show

Monday, March 5, 2012

Metro Toronto Convention Centre, North Building

1:15 p.m. – 6:00 p.m.

(See page 18 for more details.)

Click [here](#) or go to www.csctradeshow.com for FREE registration.



No Frills Trade Show Luncheon

Refreshments: 11:00 a.m.

Luncheon start: 11:30 a.m.

Topic: URBAN REDEVELOPMENT IN TORONTO

Speaker: Ken Greenberg, Principal, Greenberg Consultants Inc.

Ken Greenberg is an architect, urban designer, teacher, writer, former Director of Urban Design and Architecture for the City of Toronto, founding partner of Urban Strategies Inc., and now Principal of Greenberg Consultants. For over three decades he has played a pivotal role on public and private assignments in urban settings throughout North America and Europe, focusing on the rejuvenation of downtowns, waterfronts, neighborhoods and on campus master planning, regional growth management, and new community planning. Cities as diverse as Toronto, Hartford, Amsterdam, New York, Boston, Montréal, Washington DC, Paris, Detroit and San Juan Puerto Rico have benefitted from his advocacy and passion for restoring the vitality, relevance and Sustainability of the public realm in urban life. He is the recipient of the 2010 American Institute of Architects Thomas Jefferson Award for public design excellence and the author of *Walking Home: the Life and Lessons of a City Builder* published by Random House.



Ken Greenberg
Principal, Greenberg
Consultants Inc.

Tickets are \$65 each or \$475 for a table of 8. Click [here](#) or go to www.csctradeshow.com to register.



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December 2011	Alumicor Ltd.	ASI Watrous, Inc.		Alpolic/ETG
January 2012	Kalzip/ETG	Owens Corning	Atlas Roofing	Firestone Building Products
February 2012	Exterior Technologies Group	Kingspan Insulated Panels		Henry Company Canada Inc.
April 2012	Vintage Brick Ltd.	Altro Floor and Wall Systems	Thames Valley Brick & Tile	3M Canada
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Date	Sponsors			
September 2011	Reed Construction Data	Chicago Metallic	Flextile Ltd.	
October 2011	Reed Construction Data	Chicago Metallic	Alumicor Ltd.	
December 2011	Reed Construction Data	Chicago Metallic	Alumicor Ltd.	
January 2012	Reed Construction Data	Chicago Metallic	Firestone Building Products	
February 2012	Reed Construction Data	Chicago Metallic	Firestone Building Products	
April 2012	Reed Construction Data	Chicago Metallic	Firestone Building Products	Thames Valley Brick & Tile
May 2012	Reed Construction Data	Chicago Metallic	Firestone Building Products	



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I Love Catalogues

I do love catalogues. I love receiving them in the mail; they are a fascinating read with a cup of coffee. Don't get me wrong, I do not want to sell you anything, only the message that as a technical sales representative I have a thirst for knowledge.

Back in December I received an ASTM catalogue where you will find standards on just about everything, from "Amusement Rides" to "Wear and Erosion," via some interesting detours through "Nondestructive Testing" and "Sensory Evaluation."

Although my background takes me to Section 4 – Construction, in a different section I found a document updated in 2010 that could

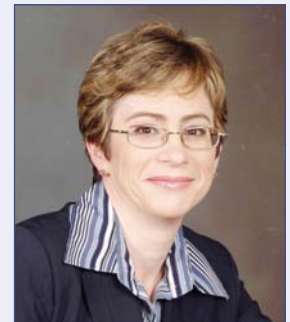
be useful to all of us: IEEE/ANSI SI-10 American National Standard for Metric Practice. The ANSI approved standard provides guidance on usage, style and conversion factors.

Another interesting document relates to Mechanical Fasteners and Related Processes. The 3rd Edition compiles specifications standards and test methods for bolts and washers as individual components or in assembly.

Finally, the same agency offers Work Standards, which are documents under development. As an example, Work Item: ASTM WK35705 – New Practice for Sustainability of Manufacturing Processes:

From Scope: "The primary purpose of the practice is to define the methodology and measurement framework for sustainability characterization that would facilitate the evaluation and comparison of different unit manufacturing processes. Sustainability characterization involves the development of performance metrics, information model, and

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Isabelle Champagne
Past Chair

Welcome New CSC Members

Please welcome the following new members to the CSC Toronto Chapter:

John Karman
Stantec Consulting Ltd.

Gordon Kennedy
Avrocon Industries Inc.

John Mills
Sika Sarnafil

Simon Heung
Keung Ng
Simon H.K. Ng Architect

We also wish to say
“welcome back” to the
following members
who have rejoined:

Joyce Cripps
Go Resilient Canada

Thomas Griggs
Everest Supply Inc.

Steven Liu
Build Max Limited

David Walker
Avid Protective Products Ltd.

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MARK YOUR CALENDARS!

CSC Conference 2012
Ottawa Ontario
May 23-27, 2012


See pages 20-23 for more details.

Catalogues

Cont'd from Page 7

process-specific data sets. The current use of ad-hoc methods to informally describe sustainability of manufacturing processes hinders manufacturing industries to effectively compare different processes for decision making.”

Manufacturing companies who already have metrics in place for measuring profitability and efficiencies could benefit from a sustainable practice.

I cannot wait for the next catalogue! 

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You've Got Mail!

Cont'd from Page 2

strongly worded e-mail than to discuss an issue in person. E-mail is often employed as an escape route. Requesting action by sending an e-mail to a dozen people and surely the action you require will be done by one of those in your “to” list, right? Perhaps.

E-mail certainly has evolved from those first electronic letters that I wrote to my cousin in the U.K. many years ago. I tend to think of them now as “e-conversations” with an accompanying degradation of grammar, spelling and general adulteration of the English language. So I’m setting myself some new rules by which I resolve to abide:

- If I’m requesting action from a party, my e-mail will be “To” them. If I don’t expect action from a party but wish them to be aware of the topic, they will be “Cc’d.”
- An exchange on a specific subject will be a maximum of three e-mails. After that, I’ll pick up the phone.
- I will review every e-mail before clicking “Send” to reduce the potential for misunderstanding. I will be very careful of using bold text or multiple “!!!” or “???” for the same reason.
- I will not assume the intent or mood of a received e-mail. If in doubt, I’ll ask or pick up the phone.
- I will start every e-mail with a pleasant greeting and sign off with a closing and my name.
- I will not “Reply All” unless it is appropriate and if I do “Reply All” I will ensure I’m well aware to whom my reply is being sent.
- I will not respond to an emotionally charged e-mail for at least 60 minutes and will read the received e-mail several times prior to responding.
- I will not send large attachments without first asking permission of the recipient.

And finally, I will type unto others as I would have them type unto me. 

The \$10K Chimney Surprise!

One of my other many hats is sitting on the board of directors of the South Eglinton Ratepayers' and Residents Association (SERRA) and one of my roles is to attend meetings of the Federation of North Toronto Residents' Association (FoNTRA). FoNTRA



Brian Abbey
Architectural Officer

represents 27 residents' associations (RA) including at least 170,000 Toronto residents. At the last FoNTRA meeting held on Jan. 17, 2012, one of the topics on the agenda was the subject of "the Furnace and Chimney Dilemma." Apparently some 'small house' residents

have already been through an experience of learning the hard way about the Natural Gas and Propane Installation Code (NGPIC) and Technical Standards and Safety Act, Ontario Regulation 212/01 – Gaseous Fuels!

Their furnaces have already been or are about to be threatened of being 'red tagged' as their chimney is used for venting of gas furnaces/boilers or gas fireplace logs/inserts because a new house is going to be built or has been built on the chimney side of their home. They have learned that they have no recourse but to proceed with extending their chimney or replacing their gas-fueled appliances at their own expense!

The NGPIC states that natural (gravity) and motor-induced draft type, gas-burning appliance chimneys installed closer than 2.4 m (7'-10 1/2") from a vertical wall, must extend a minimum of 0.61 m (2'-0") above the roof. The City of Toronto's zoning bylaw 438-86 minimum required side yard setback is 0.9 m (2'-11 1/2") and in some instances as little as 0.45 m (1'-5 3/4"), so rarely can the 2.4m requirement be met for "infill" housing within the City.

The City's current zoning bylaw also permits building heights well in excess of the average 'small house' and this would call for extending the chimney height from the roofline to a height that is not feasible unless

bracing is installed. Some homes in the City have actually done this but the alternative is that the furnace or boiler should be replaced with a new unit that can be directly vented through the outside wall and gas fireplaces also need to be replaced (if feasible) with directly vented models. The cost for doing this type of remedial work can be in the range of \$6,000 to \$10,000... an unforeseen (and unfair) expense for the average 'small house' owner.

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Congratulations to PCD, Specifier 2 and TR Students



Emily Chau
Professional Development
Officer

The results are in! I would like to congratulate the students who have successfully completed the Principles of Construction Documentation (PCD), Specifier 2 and Technical Representative (TR) courses offered in the fall term of 2011. With 26, 17 and 3 students successfully completing PCD, Specifier 2 and TR respectively, we have had another well-attended term.

PCD

Ricardo Batho
Mark Bowyer
Emily Chau
Paul Didzbalis
Steven Fenwick
Marco Guzzo
Alisha Hammond
Stephen Hitchcox
Karen Ibarra

Zeeshan Iqbal
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Steve Ioannides


Jeff Jamieson
Ashley Makay
Kalina Serlin
Christine Wilson
Paul Wong

TR

Peter Edwards

Pierre Gauthier

Vivian Hall

I would like to thank the instructors, David Wilson, Ted Katsoris, Bob Rymell and Bruce Gillham, for their time and effort, as well as Donna Fournier for her much-appreciated help. For more information on our upcoming courses, please visit our website at <http://toronto.csc-dcc.ca/Education/Education+in+Toronto/>. 

February Dinner Meeting



Reed Construction Data's Chief Economist Alex Carrick entertained and informed the crowd with his forecasts for the world and Canadian economies and their effect on construction activity levels in Canada.



Toronto Chapter Chair Steve Gusterson, CTR (left) congratulates Chris Hunter, CTR, CCA on his success in earning Certified Construction Contract Administrator status.

Door Prize Winners



Russell Snow, CTR, CSP, of W.R. Meadows is presented with the Chicago Metallic door prize by Isabelle Champagne, CTR.



Steve Ioannides, CTR of ASI Watrous (right) is congratulated on winning the Henry Company Canada door prize by Paul Johannesson.



Mark Clemmensen, RSW of Petroff Architects (left) is presented with the Reed Construction Data door prize by RCD's Michael Monsma.



Michael Hicks, Petroff Architects (right) was the recipient of the second Henry Company Canada door prize.

10K Chimney

Cont'd from Page 10

There are many more 'small house' owners that may not even be aware that they are facing potential problems and major costs due to this issue... they will not be aware of the problem likely until the situation is noticed by their gas provider or servicer. Enbridge or the service provider will then be obligated by virtue of their license requirements to 'red tag.' This means that the homeowner has to 'correct' the situation within 45 days or their gas supply will be cut off.

Because I sit on the Building Advisory Council (BAC) and have associates in both the City of Toronto and the Ministry of Municipal Affairs and Housing, Buildings Branch (MMAH), FoNTRA asked me to help with this dilemma and I agreed that I would try and get it put on the agenda for the next BAC meeting and that I would contact Ann Borooah, Chief Building Official and Director for the City of Toronto. Ms. Borooah advised me that the City had been aware of this situation and did submit a request for a code change to the MMAH back in 2007. She sent me a copy of the request that I forwarded to FoNTRA, advising them to send it out to their 27 RAs to submit their own request for a code change using the same wording to get the Ministry's attention as to the importance of this dilemma.

Alek Antoniuk of the MMAH advised that it was never included in the Ministry's round of code consultations in 2011 because the wording in Ontario Building Code (OBC) is exactly the same as the model National Building Code (mNBC) and would need a change to the mNBC before they would consider a change in the OBC. During code consultations it has not been unheard of to make changes provincially without consultation at the national level, so I do intend to request that this issue be added on to the agenda for the upcoming BAC meeting on Feb. 21, 2012 and, if necessary, I will approach the National Research Council of Canada to consider this, very necessary, change to building codes across the country. I will keep you posted! ✍

CONGRATULATIONS!



Bruce Gillham
CSC President

CSC Toronto chapter proudly recognizes one of its own, Bruce Gillham, CTR, CCCA, as CSC President for the 2011/2012 year.

Bruce can be reached at (905) 841-7571 or via e-mail at b_gillham12@sympatico.ca.

WE WISH YOU ALL THE BEST, BRUCE

See you at the Trade Show

I trust everyone enjoyed a wonderful Family Day long weekend. Although, you know, I envy those luckier folks who took advantage of a very strategic PD day to stretch their long weekend into a four-day long weekend. Good for you lucky folks. This lovely "set-up" won't happen again until 2017; what are the odds the teacher's union will have another PD day on the Friday before the next Family Day Monday? I think it's safe to say: Probably very likely!



Steve Ioannides
Content Co-ordinator

Anyhow, this year is a leap year. We all have an extra day to catch-up on all of our work, just in time for our fantastic annual No Frills Trade Show event. So, let's get our work done and take advantage of this wonderful one-day jam-packed event at the Metro Toronto Convention Centre. See you all there! ✍

Hamilton/Niagara Chapter Event

Meeting Notice – Luncheon Presentation

- date:** Thursday, March 22, 2012
- topic:** THE LONG-TERM ADVANTAGES OF LIGHTWEIGHT CONCRETE IN COMMERCIAL ROOFING APPLICATIONS
- where:** Royal Canadian Legion, 828 Legion Road, Burlington, ON
- time:** Registration: 11:30 a.m.
Literature/product tables: Before lunch and after the presentation.
Lunch: 12:00 p.m.
Presentation: 12:45 p.m. (meeting to end by 2:00 p.m.)
A networking opportunity for manufacturers and suppliers.
Literature/product tables are available at \$50.00 each, book with Terry.
- cost:** \$25.00 per person, payable at the door. Receipts on arrival, ATM on site. (make cheques payable to CSC Hamilton/Niagara Chapter). We cannot accept credit cards.
- target audience:** Architects, engineers, specification writers, building code professionals, owners, property managers, contractors, sub-contractors. Qualifies for OAA self-directed learning points.
- presenter:** Atlas-Apex Roofing. Contact Terry Johnson for more information.
- to reserve:** Contact Terry Johnson, FCSC via email at tjohnson32@cogeco.ca (preferred) or (905) 220-5366 (cell).
- next meeting:** Reducing the Weight of Concrete with a Lightweight Synthetic Particle (LSP)
Thursday, April 19, 2012



CSC President Bruce Gillham, CTR, CCCA (left) congratulates Chris Hunter, CTR, CCCA on becoming the third CSC member to achieve Technical Representative and Construction Contract Administrator designations.



Attendees took advantage of networking opportunities during the February dinner meeting, in addition to enjoying an informative presentation on the economic outlook for the construction industry.

CSC Toronto Chapter Nominations and Elections

The Toronto Chapter Nominating Committee presents the Slate of Officers positions for election for the 2012/2013 Toronto Chapter Executive, in accordance with the by-laws of Construction Specifications Canada.

We invite you to make nominations using the form below. Be sure to have your nominee's signed consent and proper number of nominators for each office.

Nominations should be mailed to:

Donna Fournier, Secretary, CSC Toronto Chapter, P.O. Box 349, Pontypool, ON L0A 1K0.

The form must be postmarked or facsimile date stamped no later than **March 16, 2012** to be valid.



Isabelle Champagne
Past Chair

Nomination Form

Toronto Chapter Officer Positions:

- | | |
|---|---|
| <input type="checkbox"/> Chairperson | <input type="checkbox"/> Interior Design Officer |
| <input type="checkbox"/> Vice-Chair | <input type="checkbox"/> Manufacturer/Supplier Officer |
| <input type="checkbox"/> Architectural Officer | <input type="checkbox"/> Professional Development Officer |
| <input type="checkbox"/> General/Trade Contractor Officer | <input type="checkbox"/> Specifications Officer |
| <input type="checkbox"/> Engineering Officer | |

THREE NOMINATORS ARE REQUIRED FOR EACH OFFICE. USE A SEPARATE FORM FOR EACH NOMINATION.

Name of Nominee: _____ Membership Classification: _____

(1) _____
Nominator's name (please print) Signature Membership Classification

(2) _____
Nominator's name (please print) Signature Membership Classification

(3) _____
Nominator's name (please print) Signature Membership Classification

☐ **I AGREE TO SERVE IN THIS OFFICE IF ELECTED**

Nominee Signature: _____ Date: _____

Note: Nominators for Specifications Officer must include at least one Specification Writer member.
Nominators for Industrial Member Officers must include at least one Industrial member.

Nomination forms to be returned no later than March 16, 2012 to:

CSC Toronto Chapter
P.O. Box 349, Pontypool, ON L0A 1K0
Fax: (888) 494-9350 | (705) 277-3838

Potential Impact of Climate Change on Building Envelopes

By Brian Burton

The following article discusses the potential impact any shift in climate patterns could have on enclosure systems and explains why the building envelope is particularly susceptible to potential changes in climate patterns.

Background: Many scientists believe that what appears to be a gradual warming of the earth's surface and atmosphere may be the result of human activity and increasing urbanization around the globe. Many also believe this trend could destabilize weather patterns and increase the frequency and intensity of severe weather related events*.

**For example 2005 was the warmest year on record and coincided with the most active hurricane season ever. 2005 was also the costliest year ever for the insurance industry when it came to building failures and claims for damages.*

There are also signs that we may be starting to see the early signs of climate change on both new and existing buildings. Most engineers agree that any significant change in weather patterns will almost certainly require us to modify the way we design, construct and maintain buildings.

Impact on Buildings: Whatever the reasons may be for changing climate conditions, according to research undertaken by Engineers Canada this phenomenon appears to be having an impact on Canada's building stock and building occupants.

To address the challenge, Engineers Canada established several Vulnerability Committees to systematically examine the potential risk for our buildings and infrastructure and their website provides a definition of climate change: http://www.pievc.ca/e/index_.cfm.

Impact on Enclosure Systems: Building envelopes are particularly vulnerable to changes in climactic conditions because they have generally become thinner and lighter with the evolving construction technology and materials and, as a result even minor changes can have an impact.

(For example, a 25% increase in peak wind gusts could lead to a significant increase in damage caused by wind-borne debris and wind loading in excess of the design loads.)

In effect, premature deterioration of building enclosure systems because of the stress on the building envelope caused by changes in the weather patterns is one of the primary concerns.

Climate change could also pose a potential health and safety risk for building occupants because we spend approximately the 90% our time indoors. As a result,

we're susceptible to temperature extremes, changes in humidity levels and other factors that affect air quality.



Climate change can result in a shift in type, form, pattern and intensity of precipitation, including an increase in the frequency of instances of freeze/thaw cycling, melting permafrost, freezing rain and rain on snow and increase the number of times components may experience wetting.

Impact of Climate Change on Building Performance:

The outside of most building enclosure systems is in direct contact with the elements and serves an important function as an environmental separator between the outside elements and interior conditions.

The age of the structure, the materials used in its construction and the type of building envelope system can also influence its ability to resist the forces of climate change.

For example a 50-year-old masonry building constructed using a "face sealed" cladding system will, in most cases, have very little capacity to resist the climate

Cont'd on Page 17

Climate Change

Cont'd from Page 16

change because the building “shell” is directly exposed to the ever-changing and more hostile exterior environmental conditions.

(For buildings which incorporate pressure-equalized rainscreen walls, the primary environmental separators (i.e., seals, insulation, etc.) are concealed and are not generally exposed to the elements.)

The environmental factors that may have a direct impact on the building envelope include:

- Higher solar intensity resulting in higher exterior and interstitial surface temperatures and for the exposed components, higher levels of UV and resultant damage.
- Shifts in the type, form, pattern and intensity of precipitation, including an increase in the frequency of instances of freeze/thaw cycling, melting permafrost, freezing rain and rain on snow. (Shifts in precipitation patterns can also increase the number of times components may experience wetting and drying and increase frost penetration.)
- Shifts in the peaks and frequency of high humidity levels.
- Changes in seasonal range of temperatures combined with increased frequency and longevity of heat waves or cold snaps.
- Increased frequency and intensity of wind and flooding events.

These changes in temperature, moisture levels and the form of precipitation can lead to dimensional changes of materials, which in turn can lead to cracking and fissuring in polymer-based materials such as vinyl cladding, window frames, sealants, gaskets and even glass. Similarly, thermal stress in the form of freeze/thaw cycles can lead to premature aging of porous materials such as stone, masonry and mortar.

Other environmental factors including increases in particulate matter, smoke and acid rain can also have an impact. In addition to the effects of UV radiation, mechanical agents such as wind-driven dust or rain or rain loads themselves may act as structural loads and can contribute to premature or accelerated deterioration.

Biological agents carried by the atmosphere can deposit fungi or moulds on surfaces, while chemical agents transported by atmospheric moisture (e.g. rain or water vapour) or by direct deposition can lead to corrosion in metals or deterioration in concrete, stone, fenestration components, as well as roofing and cladding materials.

Summary of Potential Impact and Risks

- Increasing health and safety risks for occupants caused by a reduction in indoor environment quality.
- Premature or accelerated deterioration.
- Reduction of design safety factors.
- Reduced service life and functionality of components and systems.

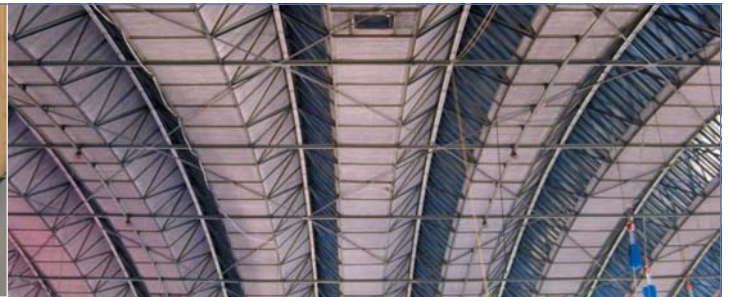


It is also a relatively straight-forward building science exercise to stimulate at least some of the impacts of various climate change scenarios on full-scale mock-ups of building envelope assemblies in a laboratory setting. Computer simulations might also prove useful.

- Increased risk for catastrophic failure.
- Increased repair, maintenance and energy costs.
- Increases in service disruptions and emergencies.
- Increased liability as a result of premature aging or deterioration.

Another impact is related to the uncertainty caused by changing climactic conditions that may

Cont'd on Page 24



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Please note: Registration form must have full company name, address, telephone number and name of person in your organization who will co-ordinate your participation.

Organization

Address

City

Postal Code

Telephone No.

Fax No.

E-Mail Address

Contact Person

Date Stamp				
	Registration #			

Don't be late!
Registration Deadline
is February 1, 2012

Indicate type of table and number (maximum of 2)
Table type is on a paid first-come, first-served basis.

			CSC Member	Non-Member	
<input type="checkbox"/> 1	<input type="checkbox"/> 2	Aisle Table(s)	<input type="checkbox"/> \$750.00 ea.	<input type="checkbox"/> \$1030.00 ea.
<input type="checkbox"/> 1	<input type="checkbox"/> 2	Wall Tables(s)	<input type="checkbox"/> \$900.00 ea.	<input type="checkbox"/> \$1180.00 ea.
<input type="checkbox"/> 1	<input type="checkbox"/> 2	Wall Tables(s) with Electrical Service	<input type="checkbox"/> \$1000.00 ea.	<input type="checkbox"/> \$1280.00 ea.
		Guest Speaker Luncheon <input type="checkbox"/> \$475.00 Table of 8	<input type="checkbox"/> ____ x \$65.00 per person	
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Cancellation Policy: A \$100 administration charge will be deducted from all refunds of exhibitor registration fees on receipt of an exhibitor's request for cancellation. Cancellation requests that are received by our office later than Friday, December 2, 2011 will not be refunded.

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<http://www.csctradeshow.com/forms.html>

CSC Conference 2012
Ottawa May 23 thru 27
Delta Ottawa City Centre

REFLECTIONS



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Tel (416) 777-2198
Fax (416) 777-2197 (Toronto)
Fax (800) 668-5684 (Canada)
Email: info@csc-dcc.ca



Join us in the Nation's Capital May 23 – 27, 2012, *where not all parties are political!*

The CSC Ottawa chapter is proud to be the host of CSC Conference 2012 "Reflections" and all we need is you to get the party started!

Ottawa is a city steeped with history! On February 10, 1857, Ottawa was officially chosen to be the capital of the United Province of Canada, a new territory comprising of Upper and Lower Canada, which in today's terms represents the provinces of Ontario and Quebec.

It was Queen Victoria who chose Ottawa as Canada's capital city. It was chosen because it had the largest number of advantages, such as its militarily defensible position; its distance from the American border; its position in case of the westward expansion of Canada; and its potential for economic growth.

Today, Ottawa offers visitors a wide range of activities, and is known for its' diverse museums such as the Canadian War Museum, Canadian Science and Technology Museum, the Diefenbunker – Canada's Cold War Museum and the Museum of Civilization to name a few.

Ottawa is also known for its' famous festivals such as the Tulip Festival, and Winterlude. Let's not forget the art galleries, outdoor cafes as well as the world famous ByWard Market. One of the highlights the city has to offer is the Rideau Canal which in winter becomes the world's largest skating rink.

Ottawa, first and foremost is the seat of the Canadian government, so don't forget to visit the Parliament Buildings which were built between 1859 and 1866.

If visiting the sights of Ottawa isn't enough, we have a conference that will educate, entertain, and surpass all your expectations. The conference will commence with the Welcome Reception Wednesday May 23rd; Connections Café on Thursday May 24th; Fun Night May 25th and concluding with the pomp and ceremony of the Presidents Reception and Ball May 26th. In addition to all this excitement, don't forget the reason you are there, Professional Develop, Education, Networking and getting more out of your CSC membership.

The committee has created a technical program with something for everyone: *(Topics are subject to change without notice)*

- Solar Collector Arrays
- Tracking Construction Labour Markets
- Working a Tradeshow Booth
- LEED from a Proponents Viewpoint
- LEED from an Opposing Viewpoint
- BIM 2012 – 2012
- BIM Assisted Construction Specification Generation
- Spray Foam Insulations
- Understanding the RSW Perspective
- Spray Foam Insulations
- Concrete Floors
- Green Roof Technology
- Case Study of Leading Edge GREEN Retrofits, *and more.*

We will also be offering off-site tours to the following:

- Parliament Hill Restoration
- Victoria Museum Restoration and
- Ottawa Conference Centre

So with all this to offer, why wait to register!

Please visit our Conference Website at www.csc-dcc.ca/Conferences for conference schedule and information. Also, if you are interested in joining our Corporate Sponsors, please feel free to contact Clifton Fiola at 416-777-2198 or email to clifton@csc-dcc.ca.

We look forward to seeing you soon!





CSC CONFERENCE REGISTRATION FORM

May 23 – 27, 2012
Delta Ottawa City Centre
Ottawa, Ontario
(please print)



First Name: _____ Last Name: _____

Title: _____ Organization: _____

Address: _____

City: _____ Province/State: _____ Postal Code/Zip: _____

Telephone: _____ Fax: _____ E-mail: _____

Name for Badge (please print): _____ Chapter: _____

Full Name of Companion (if registering): _____ Companion E-mail: _____

Are you a CSC or CSI Member? ☐ YES ☐ NO

Is this your first CSC conference? ☐ YES ☐ NO

REGISTRATION FEES All fees are in Canadian Dollars**PAYMENT**

Full Conference registration fees include all technical sessions, scheduled luncheons/breakfasts, Fun Night and Presidents Ball

Delegate registration fee: \$ _____

** Companion Registration fee \$ _____

Additional Tickets \$ _____

Companion Fees include all scheduled luncheons/breakfasts listed on Companion schedule, tours/transportation, Fun Night and President's Ball

	UNTIL APRIL 15	AFTER APRIL 15	ON-SITE (subject to availability)
Members (full Conference)	\$ 495.00	\$ 570.00	\$ 650.00
Members (Single day)	\$ 250.00	\$ 300.00	\$ 375.00
Indicate day: <input type="checkbox"/> Thursday <input type="checkbox"/> Friday			

Sub Total: \$ _____

HST (13%) (R10697097) \$ _____

TOTAL AMOUNT \$ _____

Non-Member (full Conference)	\$ 600.00	\$ 670.00	\$ 750.00
Non-Member (Single day)	\$ 300.00	\$ 350.00	\$ 400.00
Indicate day: <input type="checkbox"/> Thursday <input type="checkbox"/> Friday			

* Student (full Conference)	\$ 250.00	\$ 295.00	\$ 395.00
* Student (Single day)	\$ 40.00	\$ 50.00	\$ 75.00
Indicate day: <input type="checkbox"/> Thursday <input type="checkbox"/> Friday			

** Companion	\$ 425.00	\$ 470.00	\$ 595.00
Additional Companion	\$ 495.00	\$ 570.00	\$ 650.00

► Single day registrations include technical sessions & scheduled lunch only.

ADDITIONAL TICKETS

Full conference and companion registrations include one of each of the following, order additional tickets ONLY for guests

FUN NIGHT \$150.00 PRESIDENT'S BALL \$ 95.00

of tickets required: _____ # of tickets required: _____

IMPORTANT:

Please send payment with registration form. All registered delegates will receive confirmation of their registrations via fax/e-mail, or post. All registrations are non-refundable/non-transferable within 2 weeks before conference dates. Cancellations prior to 2 weeks must be in writing and a \$100 cancellation fee will be charged.

PAYMENT METHOD

☐ Cheque (Payable to CSC) # _____

☐ Visa ☐ MasterCard ☐ American Express

Card Number: _____

Expiry Date: _____ Security code _____

Date: _____

Signature: _____

Registered "Delegates" will not be permitted on the Companions program.

* Student - is an individual undergoing training in a school of architecture, engineering, or technology- Photo ID is required at the registration desk – space is limited and must be registered prior to conference

** One Companion for every Delegate registration; each additional Companion will be at Delegate rate.



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Please reserve prior to April 24, 2012

► Online Hotel Reservation: <http://www.deltaottawacitycentre.com/0512cscg>

CSC (CONSTRUCTION SPECIFICATIONS CANADA) - CONFERENCE
May 23 – May 27, 2012

Hotel Reservation Request - Complete and Fax to 613-688-6821 (Please PRINT)

Full Name: _____

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Arrival Date: _____ **Departure Date:** _____
(Day / month / year) (Day / month / year)

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All prices are in Canadian dollars and do not include HST at 13%.

Check-in time is 3:00 PM. Checkout time is 12:00 PM.

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Expiry Date

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Card Type:

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Card Holders Signature: _____ **Date:** _____

Reservations received after April 24, 2012 will be on a space available basis and subject to a price increase. To guarantee a room, you must provide a credit card number when reserving.

GUARANTEED ROOMS MUST BE CANCELLED PRIOR TO 4:00PM ON THE DATE OF ARRIVAL OR A ONE-NIGHT ROOM/TAX CHARGE WILL BE APPLIED.

Climate Change

Cont'd from Page 17

undermine the meteorological data we use to design our buildings and infrastructure.

Climate Change Testing and Computer Simula-

tions: It is a relatively straight-forward building science exercise to stimulate at least some of the impacts of various climate change scenarios on full-scale mock-ups of building envelope assemblies in laboratory settings. Computer simulation might also prove useful.

Both of these strategies might assist in to determining what changes in design, building codes and building practice may assist in mitigating the potential impact for new and existing buildings.

Conclusions: Some strategies are already being formulated that may enable structures to resist the effects of climate change, however given the size and importance of our building stock and infrastructure it's important that we continue to monitor the issue of climate change.

It is also apparent that we also need to substantially increase the funding, research and general attention given to the topic as it is becoming increasingly obvious that the "political will" to take any proactive measures has diminished.

While the risks appear to be increasing the potential impact has moved beyond what was once considered an environmental concern to include long-term political and financial issues that will eventually impact on energy production, agriculture, industry and transportation.

In the building sector some professionals are suggesting these apparent changes will represent a huge long-term challenge for architects, engineers, technologists and building scientists. In many ways adopting a proactive approach to the potential impact of climate change is also an opportunity for building professionals to take a leadership role. ✍

About the Author: Brian Burton is an R&D Specialist for exp as is a Certified CGSB/ICPI Construction Inspector. Contact brian.burton@exp.com or visit www.exp.com.

February Dinner Meeting Sponsors

Many thanks to February dinner meeting sponsors Exterior Technologies Group, Kingspan Insulated Panels and Henry Company of Canada Inc. for their continuing support of CSC Toronto Chapter.





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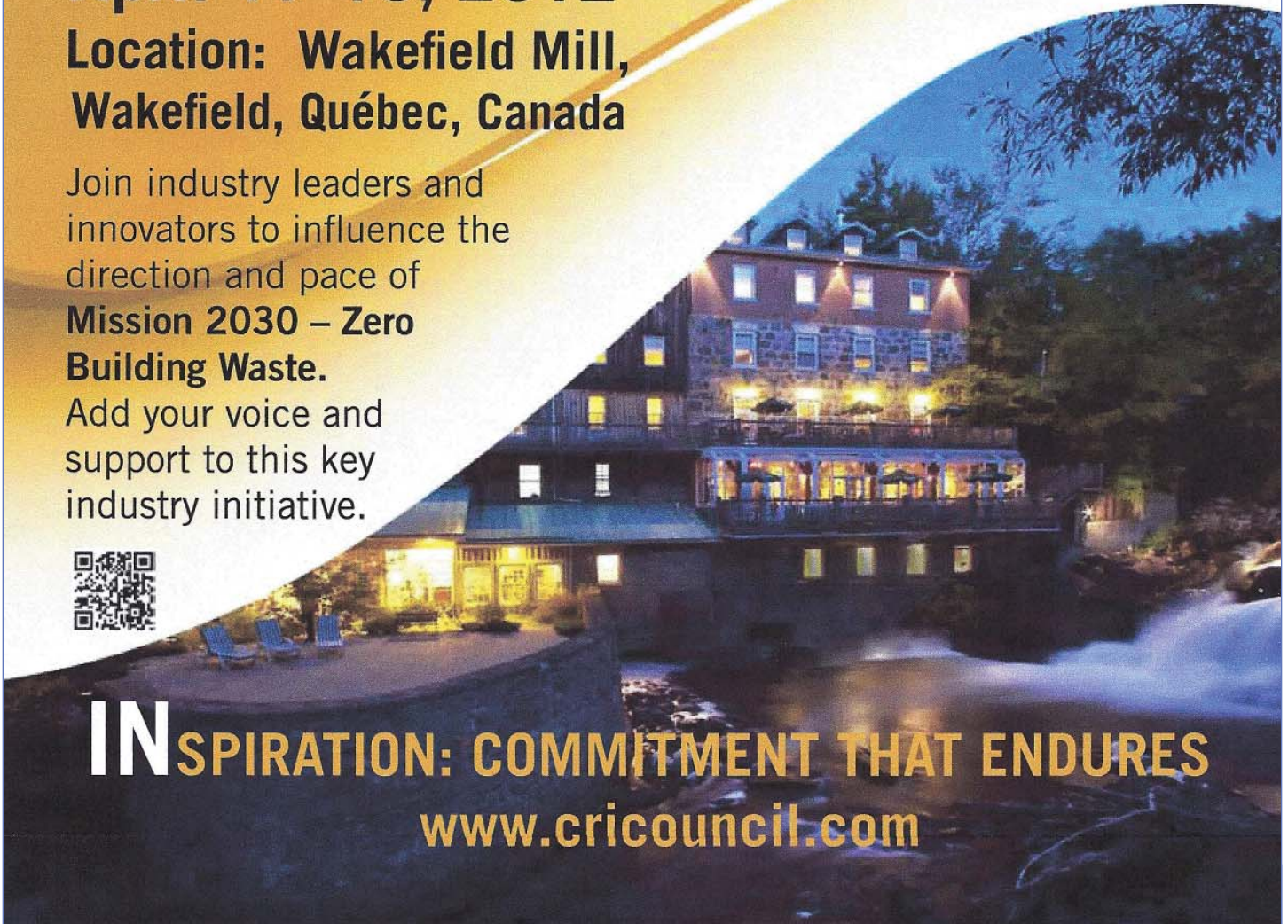
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- Choice of monthly dinner sponsorship is on a first-come, first-served basis*



Bronze Sponsorship \$400

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 - Single Business Card ad placed in the Specifier for 10 issues (one name only/\$50 charge for changing the card during the print run)
- Cost of package if purchased individually: \$515*

Silver Sponsorship \$650

- One Dinner Sponsorship
 - Double Business Card ad placed in the Specifier for 10 issues (three names maximum on business card/\$50 charge for changing the card during the print run)
 - Company name and logo posted on CSC Toronto Chapter website (July to June)
- Cost of package if purchased individually: \$745*

Gold Sponsorship \$1,450

- Bronze Sponsorship Benefits, as well as the following:
 - Registration for CSC No Frills Trade Show (aisle table)
 - Two tickets to CSC Social Event (Curling Bonspiel or Fun Night)
 - Website Package, which includes: Company name and/or logo recognition on the Toronto Chapter website
 - Hot link to your home page, or page link provided to us
 - Will run for 12 months (July to June)
- Cost of package if purchased individually: \$1,920*

Platinum Sponsorship \$2,050

- Bronze Sponsorship Benefits, as well as the following:
 - Registration for CSC No Frills Trade Show (Wall Table, no electricity)
 - Website Package, which includes: Company name and/or logo recognition on the Toronto Chapter website
 - Hot link to their home page, or page link provided to us
 - Will run for 12 months (July to June)
 - Golf Day Package (includes four tickets for golf and dinner)
- Cost of package if purchased individually: \$2,615*

Diamond Sponsorship \$2,830

- Platinum Sponsorship Benefits, as well as the following:
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 - CSC No Frills Luncheon Wine Sponsorship
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- Cost of package if purchased individually: \$3,690*

Construction Specifications Canada | Toronto Chapter

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Company address: _____

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|--|---|
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| <input type="checkbox"/> Bronze Sponsorship (\$400 + \$52 HST = \$452) | <input type="checkbox"/> Platinum Sponsorship (\$2,050 + \$266.50 HST = \$2,316.50) |
| <input type="checkbox"/> Silver Sponsorship (\$650 + \$84.50 HST = \$734.50) | <input type="checkbox"/> Diamond Sponsorship (\$2,830 + \$367.90 HST = \$3,197.90) |

Payment method:

- ☐ Cheque only (enclose with application)

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