



CANADIAN INSTITUTE OF STEEL CONSTRUCTION  
INSTITUT CANADIEN DE LA CONSTRUCTION EN ACIER

# CHAMPIONING CANADIAN STEEL

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2015/16 ANNUAL REPORT



Canada's voice for the steel construction industry,  
providing leadership in design and construction  
efficiency, quality and innovation.

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SERVICES DIRECTORY

3760 14th Avenue, Suite 200, Markham, Ontario L3R 3T7

Phone 905-604-3231 | Email [info@cisc-icca.ca](mailto:info@cisc-icca.ca) | Website [www.cisc-icca.ca](http://www.cisc-icca.ca)

Twitter [@cisc\\_icca](https://twitter.com/cisc_icca) | LinkedIn [www.linkedin.com/company/986081](http://www.linkedin.com/company/986081)

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## MESSAGE FROM THE CHAIRMAN OF THE BOARD



Laurier Trudeau

STEEL! This product is everywhere. And let's not change a thing!

To achieve such a statement, we need to continue our efforts in so many directions. The Canadian Institute of Steel Construction can easily drive the needs of our industry and provide a service that, in my mind, is an extension of our companies, suppliers and all our members and associates.

In today's tight economic market, we, the membership, must concentrate on our day-to-day business affairs and successfully be awarded projects that can employ many Canadians and in turn provide a solid foundation for our great country. While each of us is striving for this, our steel industry association, the CISC, can concentrate on the importance of advocacy, education and providing world class knowledge of steel construction for all of us to use to our benefit.

I personally had the chance to work in different sectors of the steel industry and the endless amount of knowledge one can obtain by listening, watching and participating is unparalleled.

This brings me to my next thought, the amount of participation we as members and associates put in is the amount we can expect from our association. Committees are formed, ideas are bounced around and together we can achieve great things. With that said, I ask all members and associates to participate in some form.

2015 was a year of federal government change...the country voted, and our new government was formed. The CISC is hard at work meeting with our federal government on topics that are close to our industry's heart. Together, we must visit our local government offices and remind them about who we are and what we stand for.

In 2015/2016, our Alberta region experienced a downturn in the oil and gas sector which affected all construction industries, and more importantly – steel. Most recently, Northern Alberta experienced a wildfire like no other and this made matters worse. Our industry partners must continue to support this Region, which will no doubt persevere.

Every CISC Region faced its challenges with the resolve and strength that the steel industry is known for, and found the "sun within the clouds" through innovation, adaptation and its own unique regional flavor. From coast to coast steel is needed and steel will continue to be the "talk of the town."

I would like to take this opportunity to thank our past Chairman Jim McLagan for his time and knowledge. I would also like to thank our current Board of Directors, CISC President, Regional and Head office staff and you the members and associates along with other steel industry leaders. All the best in 2016.

Laurier Trudeau

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## MESSAGE FROM THE PRESIDENT



Edward Whalen, P. Eng.

The CISC, having developed a roadmap for the future, has already begun to implement change once again for the benefit of the steel industry and our members and associates. Having engaged members and associates across the country, the CISC Board of Directors approved a new 3-year Strategic Plan in January of this year. I would encourage everyone to have a look at the extensive list of items that the CISC staff and members and associates will be working on. The Strategic Plan is the document we will be using to transparently demonstrate where we are going and how well we are doing. If there is any doubt as to what the CISC does for the steel industry, one just has to look at the successes in the last strategic plan and the items that are identified in this current one.

Some highlights of this plan include:

- Development of CISC Environmental Product Declarations (EPDs) for fabricated structural steel, plate and HSS required by the new LEED version 4. Available only to CISC members, this program will save each company involved in LEED projects a minimum of \$40K
- Research and development of a CISC slim-floor system that will open up more markets for our members and associates
- Improving fire code requirements for structural steel in Canada, and as a result, lowering the cost of steel construction
- Lobbying for the steel industry with platforms such as Prompt Payment legislation, Infrastructure Investment and Local Procurement, and Free and Fair trade
- Fighting against dumped and subsidized fabricated steel entering Canada
- Transitioning all CISC courses and webinars to online platforms
- Partnering with Amazon.ca for our publications fulfillment to improve the customer experience
- Increasing availability of engineering design knowledge with our new steelknowledge.ca website
- Launching the new annual CISC Steel Symposium to provide the construction industry with a venue to learn and network
- Launching new benefits for members that provide substantial savings on products and services that are not available to non-members
- Focus on new research and innovation initiatives steered by the CISC Education and Research Council
- Development and implementation of the CISC Business Performance Management System

The CISC is committed to being the voice for the Canadian steel construction industry, providing our members, associates and stakeholders the best value, the best environment, and the best opportunities to be successful.

Edward Whalen, P. Eng.

# VISION, MISSION & STRATEGIC PLAN

## OUR VISION

Canada's voice for the steel construction industry, providing leadership in design and construction efficiency, quality and innovation.

## OUR MISSION

The CISC promotes the use and benefits of steel in construction, adds value to the construction and design community and supports the needs of the membership and industry through education and training, research and development, industry codes and standards, certification and advocacy.

The CISC continues to move forward in its evolution to become the voice for Canada's steel construction industry, inspired by our bold vision and guided by our strategic plan objectives to **strengthen** the CISC, **enhance** membership value and **increase** market share.

There have been several milestone achievements of strategic plan objectives in the past year, and several new initiatives are currently underway.

## FINANCIAL

- ✔ Strengthened processes for expense controls and accounts receivables.
- ✔ New membership fee model is currently being studied.
- ✔ New revenue stream being developed with launch of marketing/advertising opportunities for members and associates.

## STAKEHOLDERS

- ✔ Drove the voice of the Canadian steel industry at CISC's "Day on the Hill" in Ottawa with a national delegation of members and associates.
- ✔ Continued growth in CISC Quality Certification programs, now also referenced in the CSA S6 standard. We currently have 80 companies certified and / or undergoing certification.
- ✔ Achieved growing engagement of CISC Project Solutions with the new steelknowledge.ca technical blog, new mobile engineering apps and a new engineer on staff.
- ✔ Successfully moved all Training to online and web based platforms.
- ✔ Launched new Employee Benefits program "the Big Company advantage" for CISC Members, and working on suite of affinity programs for members and associates.
- ✔ New CISC Strategic Plan has been approved by the National Board of Directors.
- ✔ Successfully launched first CSCE-CISC Canadian National Steel Bridge Competition.
- ✔ New CISC Handbook of Steel Construction, 11th edition launched.
- ✔ New CISC Code of Standard Practice, 8th edition launched.
- ✔ New CISC Limit States Design, 10th edition launched.
- ✔ New CISC mobile apps for Engineering Design were successfully launched.
- ✔ New CISC Regional Advocacy Days held in multiple Regions.
- ✔ Held a successful national SteelDay in 2015 with 33 hosts and 3000+ attendees. The highlight for this year was a strong social media campaign with live tweets and updates by both hosts and attendees.
- ✔ Increased online presence and engagement with stakeholders with multiple new blogs and websites, social media, email and internet marketing. We have had over 8 million hits on our website, and have 611 followers on Twitter, and 1,921 connections on LinkedIn.

- ✔ Enhanced communications with Members & Associates and other stakeholders with new editions of the Members & Associates quarterly newsletter, monthly Advantage Steel newsletter, a newly redesigned Advantage Steel magazine, and two new blogs to showcase our advocacy activities and news & events.
- ✔ Enhanced CISC brand image and promoted steel with presentations and exhibits at various construction industry, engineering and architectural tradeshow and events, and with media coverage in leading industry publications.
- ✔ Developed various marketing collateral for regional staff to engage stakeholders. These include presentations and flyers that highlight the strengths of steel for mid-rise construction and sustainability vs. wood and concrete, a new flyer targeting architects, a new flyer highlighting important updates to our newly launched Handbook of Steel Construction, and a new flyer promoting bridges.

## INTERNAL PROCESSES

- ✔ Launched new CISC e-commerce storefront for products on amazon.ca to enhance customer experience.
- ✔ Development of CISC's new Association Management System is actively underway.
- ✔ CISC's Member & Associate Fee Committee is currently working on several models that will offer enhanced membership benefits and a revised fee structure.
- ✔ Continued enhancements to corporate website completed, such as new Education & Research section, new accredited professionals directory, and new twitter feed.
- ✔ Improvement and streamlining of Membership Services underway with a focus on more efficient, standardized processes and customer service excellence.

## ORGANIZATIONAL GROWTH

- ✔ Implemented cloud-based software platforms to improve organizational communications, file storage and workflow.
- ✔ Completed development of objectives for regional staff.
- ✔ Completed development of several staff policies.

## STRATEGIC PLAN 2015-2019

### OUR VISION

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### OUR MISSION

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### CORE BUSINESSES

#### ORGANIZATIONAL GROWTH

#### FINANCIAL



#### INTERNAL PROCESS

#### STAKEHOLDERS

### STRATEGIC PILLARS

#### FINANCIAL

- Grow Course Attendance
- Increase Funding for E&R Activities
- Enhance Membership Growth
- Growth of Products and Services

#### STAKEHOLDERS

- Protect and Grow Market Share
- Raise the Profile and Image of Steel Construction Industry
- Improve Cost, Efficiency, Productivity and Safety of Steel Construction
- Ensuring the Future of the Industry
- Membership Value
- Sustainability of Steel

#### INTERNAL PROCESS IMPROVEMENT

- Improve the Messaging
- Processing Improvements
- Efficient Expense Reporting
- Continuous Improvement
- Infrastructure Improvements

#### ORGANIZATIONAL GROWTH

- Trusted Advisor Status
- Skills Development

# MEMBERS & ASSOCIATES

## A COMMUNITY OF INDUSTRY LEADERS THAT ARE COMMITTED TO OFFERING THE MOST INNOVATIVE AND COMPETITIVE SOLUTIONS FOR STEEL CONSTRUCTION

Our members and associates represent the entire steel construction industry and include businesses that are centres of excellence, professionals at the leading-edge of practice, and educators and students that are shaping the engineering and architectural practices of tomorrow.

The CISC intends to engage, facilitate, and support all stakeholders, bringing to the table engineers, architects, fabricators, owners and developers, contractors, unions and educators (just to name a few) for the betterment of our industry.

Members and associates belong to one of seven regions:  
Atlantic, Quebec, Ontario, Manitoba & N.W. Ontario, Saskatchewan, Alberta, and British Columbia.

OUR MEMBERS ARE	OUR ASSOCIATES ARE
Steel Fabricators	Steel Fabricators
Steel Service Centres or Steel Warehouses	Steel Erectors
Steel Mill Producers	Suppliers
Steel Detailers	Consultant Companies
Steel Affiliates	Builders or Stakeholders
	North American Steel Mill Producers
	Professors and students enrolled in engineering, architectural and other technical programs
	Professional Individuals
	Technical Individuals

**880**  
TOTAL MEMBERS  
& ASSOCIATES  
AS OF 08/2016

**88**  
NEW MEMBERS  
& ASSOCIATES

### BENEFITS OF JOINING THE CISC INCLUDE:

-  **Advocacy:** Engage government and key industry stakeholders and drive change on the key issues affecting our industry.
-  **Networking:** Network with your peers, industry stakeholders and decision makers at various regional and national seminars, conferences and special events.
-  **Belong to a world-class brand:** As a member or associate, you belong to an organization that is recognized as being at the forefront of innovation, technical expertise and industry knowledge.
-  **Professional development:** Attend our leading-edge courses and seminars covering the most complex and challenging topics in engineering design and construction, and earn continuing education credits.
-  **Project Solutions:** Collaborate with our experts to explore different engineering design and construction solutions for your next project, and access our innovative design tools and applications.
-  **CISC Quality Certification Programs:** Build your competitive advantage with one of the industry's most comprehensive quality certification programs.

-  **Industry knowledge:** Access our extensive library of authoritative publications that have become the industry standard for steel design and construction. Gain a competitive advantage with access to the latest industry trends and market information.
-  **Research & Development:** Discover today's best ideas and support tomorrow's promising initiatives by participating in various research and development programs and committees.
-  **Recognition:** Receive industry recognition and profile for excellence in engineering and architectural design at our regional and national Design Awards competition.
-  **CISC EPD Program:** Exclusive Members only access to CISC Industry Average EPDs for key products for use on LEED projects.
-  **CISC Affinity Programs:** Take advantage of our suite of affinity programs offering substantial savings and exclusive benefits.

## CISC TO IMPLEMENT NEW LEADING EDGE ASSOCIATION MANAGEMENT SOFTWARE TO ENHANCE OPERATIONS

CISC is transitioning to a new state-of-the-art association management database system that will streamline our operations, improve our data management capabilities, and introduce more efficient and customer friendly functionalities for our members and associates.

This includes a new event registration module for national and regional events and course registrations, a new email communications platform, and a "self service" membership database which members and associates can update on their own. We expect this exciting new platform to be live in 2017.

## NEW CISC AMAZON.CA STOREFRONT PROVIDES ENHANCED CUSTOMER EXPERIENCE

CISC'S new e-commerce system for products and services on Amazon.ca has been very popular, providing a seamless customer experience for the entire order to fulfilment process.

To date we have had over 900 orders through Amazon since launch in February 2016, and virtually all orders for publications are now done online.

We also continue to offer promo codes targeted at college and university students that can be redeemed on Amazon for special promotions on our products and services.

 **OVER 900 ORDERS**  
THROUGH AMAZON SINCE  
FEBRUARY 2016



## CISC FEE REVIEW COMMITTEE STUDYING NEW FEE MODELS FOR MEMBERS AND ASSOCIATES.

The Membership Fee Committee is continuing to evaluate different options for the CISC fee model for Members and Associates.

## NEW CISC BUSINESS PERFORMANCE MANAGEMENT SYSTEM UNDER DEVELOPMENT

CISC is working on an exciting new Business Performance Management System that will allow participating member fabricators to benchmark their organizational performance using a variety of key performance indicators (KPIs) including safety, quality and human resource indicators, allowing them to develop continuous improvement plans for their organizations. The BPMS is currently in pilot use with some of our Fabricator members.

## BOLD NEW CISC STRATEGIC PLAN LAUNCHED FOR 2015-2019

The CISC Board of Directors approved the new CISC Strategic Plan with a clear focus on enhancing membership value, strengthening the CISC and growing market share, and charting the way for a bold new future for the CISC.

## MEMBERSHIP GROWTH AND QUALITY CERTIFICATION

CISC has experienced continued growth in our membership in the past year and currently has 880 members and associates.

Our Quality Certification program is also growing in popularity and is increasingly specified as a requirement for projects across the country. The total number of organizations that are currently CISC certified, or have certifications under process is 80.

# ADVOCACY



## RAISING AWARENESS AND DRIVING CHANGE ON THE KEY ISSUES FACING OUR INDUSTRY WITH ALL LEVELS OF GOVERNMENT

The CISC continues to intensify its advocacy efforts and is leading the way by engaging stakeholders at all levels of government across the country on the key issues that impact our industry.

We have been engaged in several advocacy initiatives in the last year, actively promoting the interests of our industry.



## CISC MEETS WITH PARLIAMENTARIANS IN OTTAWA TO URGE ACTION ON PROMPT PAYMENT, POLICIES FOR INFRASTRUCTURE INVESTMENT & LOCAL PROCUREMENT, AND FREE AND FAIR TRADE

A national delegation of CISC members and associates met with parliamentarians from all political parties at CISC's "Steel Construction Day on the Hill" on March 22<sup>nd</sup> to request immediate enactment of federal prompt payment legislation, support for infrastructure investment and local procurement policies, and policies to ensure a free and fair global trade environment.

We are pleased to report that our advocacy efforts are having an impact in Ottawa including recent comments by our Prime Minister and other parliamentarians acknowledging the important role that the Steel industry plays in Canada and supporting our key platforms.

We received significant media coverage in numerous media outlets, including an interview on Bloomberg TV. Over 160 journalists viewed our press release and it appeared on 27 websites, such as the Daily Commercial News, Journal of Commerce, Edmonton Journal, Ottawa Citizen, Vancouver Sun and National Post.



Bloomberg TV

Daily Commercial News

Journal of Commerce

National Post

Ottawa Citizen

## CISC MEETS WITH WINDSOR-DETROIT BRIDGE AUTHORITY TO HIGHLIGHT NORTH AMERICAN STEEL SOLUTIONS

CISC Members, the AISC and other industry partners had a successful meeting with the Windsor-Detroit Bridge Authority to demonstrate the expertise, capacity and innovative solutions available in North America to build this new border crossing.

## CISC EFFORTS LEAD TO INTRODUCTION OF BILL S-224 CANADA PROMPT PAYMENT ACT IN SENATE

As part of our strong efforts through the National Trade Contractors Coalition of Canada (NTCCC), Federal Prompt Payment legislation, Bill S-224, *The Canada Prompt Payment Act*, was launched in the Senate and has now passed second reading.

The CISC has been actively involved in Prompt Payment Ontario and the NTCCC to provide input to the Ontario Commission on Prompt Payment. The final recommendations have now been submitted to the Ontario government.

The CISC also led efforts to secure further support and endorsement of prompt payment during the NTCCC Prompt Payment Summit in Ottawa on April 18, and the NTCCC Day on the Hill on April 19.

## CISC SUCCESSFULLY SECURES AGREEMENT FOR NAMING OF SUBCONTRACTORS BY PUBLIC WORKS & DEFENCE CONSTRUCTION CANADA

The CISC and its industry association partners have successfully advocated for this issue and obtained the support of Public Works and Defense Construction Canada. By mid March, Public Works Canada started requiring GCs to name their major contractors at time of bidding or within 48 hours of tender closing.

## CISC WINS AGAINST REBAR DUMPING IN BRITISH COLUMBIA

CISC actively participated in the Canadian International Trade Tribunal Public Inquiry into whether the BC Government, supported by ICBA and CCA, should be allowed a waiver of tariffs set by the CITT early in 2015 on dumped rebar entering Canada. Dumped rebar makes steel structures less competitive and unfairly erodes our market share. The CISC showed the economic impacts to BC along with the impacts of BC dumped rebar leaking across Canada.

Hearings were held in July 2015. We are pleased to share that the CITT findings were announced in late 2015 and that the Canadian government ruled in favour of the steel industry by rejecting the BC exemption request.

## STRONG ENGAGEMENT WITH ALL LEVELS OF GOVERNMENT ACROSS THE COUNTRY TO PROMOTE FREE & FAIR TRADE, INFRASTRUCTURE INVESTMENT AND LOCAL PROCUREMENT AND PROMPT PAYMENT

CISC has intensified its efforts to advocate for Free & Fair Trade, Infrastructure Investment and Local Procurement, and Prompt Payment this past year through several key initiatives, including meetings with municipal, provincial and the federal government, letter writing campaigns and media coverage. These included:

- Provincial Days at the Legislature in Ontario, Alberta and an upcoming day in Quebec.
- Meetings with various provincial government ministries, including the Ministry of Transportation, Infrastructure, Economic Development and others across the country.
- Strong advocacy efforts with the British Columbia Ministry of Transportation for fair bridge procurement practices.
- Participation in a dinner event in British Columbia with provincial deputy ministers and other political leaders to highlight key issues, including dumping, reciprocity and free trade.
- Meetings with municipalities across the country.

## RAISING AWARENESS ABOUT THE NEGATIVE IMPACTS OF SIX STOREY & HIGHER WOOD CONSTRUCTION

CISC continues to engage with key stakeholders across the country to raise awareness of the dangers of constructing six storey (and higher) wood structures without proper due diligence, research and testing. Our communication efforts included meetings, social media campaigns and interviews with trade and mainstream media.

CISC is also a participant in the Coalition for Fair Construction Practices where strategies are developed to deal with these types of issues as an industry group.

## CISC IMPLEMENTS STRONG MEDIA OUTREACH AND SOCIAL MEDIA CAMPAIGNS TO HIGHLIGHT KEY ADVOCACY ISSUES

CISC continues to run strong and sustained social media campaigns on Twitter and LinkedIn on key advocacy issues.

We have recently launched an Advocacy blog to regularly update our stakeholders on CISC advocacy activities nationally and regionally, as well as share any news or developments at all levels of government related to our key advocacy platforms of Free and Fair Trade, Infrastructure Investment and Local Procurement, and Prompt Payment.

We have also been actively engaged with national and trade media through press releases and interviews in radio and print that have resulted in widespread coverage.



CISC Ontario at Queen's Park urging action on Prompt Payment, Free and Fair Trade, and Local Procurement



Meeting with Deron Bilous, Alberta Minister of Economic Development & Trade



Thank you, Senator Don Plett, for being our champion for Prompt Payment



Jas Singh from Akal Steel with James J. Bradley, MPP (St. Catharines)



CISC Alberta Members and Associates gather at the provincial Legislature for meetings with MLAs

# CISC QUALITY CERTIFICATION

CISC has one of the most comprehensive and independently audited quality certification programs in the industry. The CISC Quality Certification program has been rapidly gaining traction across the country with multiple provincial jurisdictions either already specifying or actively considering specification of CISC Quality Certified fabricators. The S6-04 Bridge Standard now requires fabricators to be quality certified and the CISC Quality Certification program is recognized and referenced in the standard.

CISC Quality Certification creates the right foundation of knowledge for fabricators of steel structures and steel bridges. It provides proof of quality and competence for the construction industry, assuring organizations of adherence to national and international standards.

The number of organizations that are currently CISC certified or are under process for certification is 80.

## CERTIFICATION PROGRAMS

There are two separate certification programs offered by the CISC - Steel Structures and Steel Bridges.



### CISC STEEL STRUCTURES CERTIFICATION

Focused on the fabrication shop  
(does not include erection activities)

Audited by a recognized third party auditing organization

Available to any structural steel fabricator in the world\*

*\*Some conditions apply.*

### CISC STEEL BRIDGES CERTIFICATION

Focused on the fabrication shop  
(does not include erection activities)

Audited by a recognized third party auditing organization

Available to any structural steel fabricator in the world\*

*\*Some conditions apply.*

## CERTIFICATION OFFERS A CLEAR COMPETITIVE ADVANTAGE:

- More owners are specifying CISC Quality Certification
- CISC Certified companies get on the pre-qualified bidders list
- CISC Certification improves construction relationships
- CISC Certification establishes long-term business relationships
- Certified firms will be able to consistently deliver the highest quality products and services



# EDUCATION & RESEARCH

## STRENGTHENING CISC'S COMMITMENT TO EDUCATION & RESEARCH

The CISC Education and Research Council (ERC) funds and directs the national education and research activities of CISC, monitors and assists education and research activities in the CISC Regions, and provides advice and oversight on CISC Training operations. Funding for E&R activities is provided by the CWB Group, CISC, the International Association of Bridge, Structural, Ornamental and Reinforcing Iron Workers, Nucor-Yamato Steel, Atlas Tube, Gerdau and SSAB North America.

CISC uses scholarships, competitions, research funding, centres of excellence and educator support programs at Canadian Schools of Engineering and Architecture to engage and help prepare the next generation of decision makers to select and design safe, efficient and economical steel structures. Following graduation, practising engineers and architects, along with technologists and technicians employed in the steel construction industry, have a broad array of continuing education seminars and short courses available from CISC for specialized training.

The ERC evaluates new and existing programs based on the number of students affected, the impact on their career choices and their overall impression of steel construction. In the past year, the CISC has funded various scholarships, supported student competitions in Architecture and Engineering and provided university grants totaling over \$300,000.



CISC CONTRIBUTES OVER  
**\$300,000** YEARLY  
 TO EDUCATION & RESEARCH PROGRAMS

## SCHOLARSHIPS

We are committed to providing funding for engineering and architecture students who demonstrate a keen interest, commitment, and high-academic qualifications when it comes to projects related to steel construction. CISC directly or indirectly contributes over \$112,000 yearly to various scholarships, including CISC Region sponsored scholarships and the new Donor Directed Scholarship program. The top scholarships include the G. J. Jackson Fellowship (\$20,000), CISC Ontario Region - Ontario Erectors Association Scholarship (\$20,000), Alberta Region, G. L. Kulak Scholarship (\$15,000), CISC Kenneth B. Benson Scholarship (\$7,500) and the 11 CISC Architecture Student Scholarships (\$3,000 ea.).



CISC CONTRIBUTES OVER  
**\$112,000** YEARLY  
 TO VARIOUS SCHOLARSHIPS

## EDUCATION & RESEARCH AWARDS 2015



Thierry Béland  
 G. J. Jackson Award winner with Paul Zubick



Matthew Dlugosz & Zihao Wei  
 Student Design Award winners with Rob Third

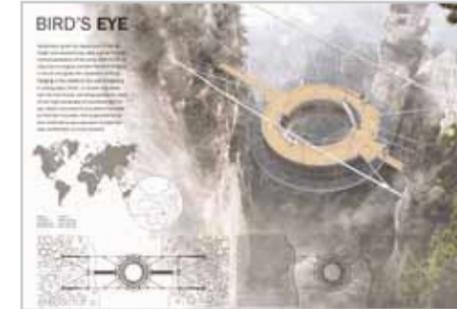


CISC Research Grant Recipient Lydell  
 Wiebe with Mike Holleran and Rob Third

## COMPETITIONS

Competitions are the most cost effective means of involving students in steel construction during their post secondary education. On average, the Architectural Student Design Competition receives 60 entries annually from 4-5 schools of architecture and engages upwards of 150 participants. Typically, 7-8 Canadian steel bridge teams compete in the AISC/ASCE Student Steel Bridge Competition and each team has 10-15 student members. In 2015, the CISC and the Canadian Society for Civil Engineering (CSCE) teamed up to financially support and provide resources for the first annual CSCE-CISC Canadian National Steel Bridge Competition. The inaugural event was held in Montreal in May, and attracted six Canadian teams from Quebec, Ontario and British Columbia. Significantly, two of those teams were new to steel bridge competitions so the Canadian competition is fostering new interest. The new Canadian competition was a success by all measures and will continue to expand.

## ARCHITECTURE STUDENT DESIGN COMPETITION 2015 — 2016



Bird's Eye  
 Award of Excellence  
 Matthew Dlugosz & Zihao Wei  
 University of Waterloo

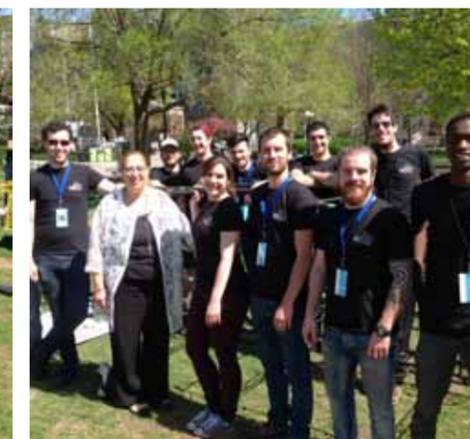
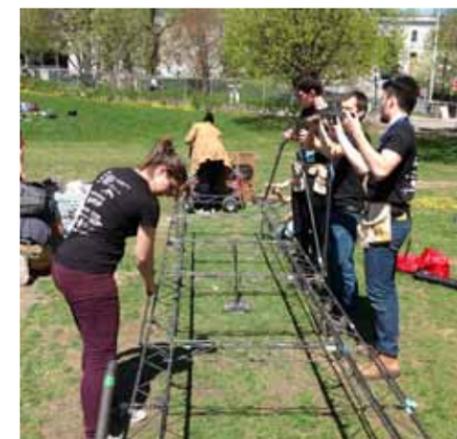


Pirouette  
 Award of Merit  
 Jinsu Park, Sugandh Gupta & Catherine Tan  
 University of Waterloo



COCOON  
 Award of Merit  
 Erik Aquino  
 Ryerson University

## FIRST ANNUAL CSCE-CISC CANADIAN NATIONAL STEEL BRIDGE COMPETITION



## EDUCATORS FORUM



The objective of the Educators Forum is to inform and inspire educators in steel design and construction, which in turn is then reflected in their research and teaching.

This biennial event was held in Calgary, AB, on February 26-27, 2016, and brought together 35 academics teaching steel design to undergraduate students in faculties of engineering and architecture at Universities across Canada, thanks to the generous travel support from local CISC Regional Committees and individual CISC Members. New participants included Laurentian University, which now has a School of Architecture, and the University of Victoria, which is offering a program in Civil Engineering.

Guest speakers updated the educators on Integrated Project Delivery, modularization (owner, manufacturer, industrial and research), bringing BIM into the classroom, how to start a student bridge team and the new CSCE-CISC Bridge Competition.

The site/shop/building tours are always well received and Calgary offered up a grand selection of steel structures to visit and marvel at including Brookfield Place under construction, and the nearly completed National Music Centre.

New for 2016 was the "Steel Educators and Designers Dinner" hosted by the CISC Alberta Region at the TELUS Spark. Following a reception and dinner for 90+ educators, consulting engineers and architects, and local CISC Members and Associates, Dr. Chris Luebke, Arup Foresight, gave an inspiring, well-received lecture on "change" and what the future holds for building and bridge construction.

## THE FIRST ANNUAL CISC NATIONAL STEEL SYMPOSIUM WILL BE HELD IN TORONTO ON SEPTEMBER 29, 2016

The Annual CISC National Steel Symposium will be an engaging, multi-session education day for the construction industry packed with expert-led sessions featuring the latest topics in steel design and construction



## CENTRES OF EXCELLENCE



The CISC Steel Centre opened at the University of Alberta in January 2016 and CISC is one of five Investor (Founding) Members who have made a 5-year, annual commitment of \$20,000 each to create an exciting new home and identity for structural steel education and research at the university under the leadership of Professor Robert Driver. Funding is supplemented by a growing number of Influencer Members and Supporter Members. The Investor Members have formed an Advisory Committee that is helping to map out programs and to recruit the full-time faculty position made possible by the creation of the Centre of Excellence.

As part of the 3-year strategic plan, this model for establishing centres of excellence is being evaluated for adoption as an ongoing program and promotion across the country.

## TRAINING

In the year ending April 30, 2016, CISC provided 133 hours of live continuing education to 294 engineers, architects, technologists and technicians involved in steel construction. Our team of 18 Course Leaders delivered 6 live courses and 3 seminars in English and French. In addition, 92 more students consumed 1,650 hours of self-paced learning material with tutoring and marking from the team members.

CISC recognizes the trend and popularity of online training, and as part of the new 3-year strategic plan, all existing and new courses will be delivered either live online or as self-paced learning modules. The exception will be private and customized deliveries of courses for large firms looking to tap into the knowledge and expertise of our subject matter experts in person.

### NEW AND UPDATED COURSES OFFERED BY CISC INCLUDED:

Single Storey Building Design (live, online)

Inspection des structures de bâtiments en acier (classroom)

Industrial Building Design (live, online)

Steel Bridges - Design, Fabrication, Construction (live, online)

### NEW WEBINARS INCLUDED:

Steel Erection Estimating

AESS 5 – Diagrids

LEED v4 Overview for Steel Fabricators

## PERSONNEL ACCREDITATION

Our CISC Accreditation programs are designed to provide industry personnel with a greater level of expertise, technical skills and credibility and to ensure greater uniformity in steel inspection and connection design.

**CISC Accredited Steel Inspector – Buildings:** Requires participation in a 4-day course and achieving an 80% grade on the proctored 3-hr final exam. Experienced steel inspectors are permitted to take the exam without taking the course. The pass rate is approximately 70% and there are currently 68 certificate holders in this category, up 22 from the previous year. Their names and locations are posted on the CISC website under Certification >> CISC Accredited Individuals.

**CISC Accredited Steel Connections Designer – Conventional Construction:** Requires taking the 40-hour Connections II course and achieving an 80% grade on the proctored 3-hr final exam, being a registered professional engineer in Canada and showing evidence of relevant steel design experience. Individuals can now take the training component online, at their own pace, and write the exam remotely under the supervision of a Registered Professional Engineer. There are currently 13 certificate holders in this category, up 6 from the previous year and their names and locations are posted on the CISC website.

## FUTURE TRAINING PRODUCTS

The Education and Research Council funds the development, technical updating and translation of training courses and seminars offered by CISC.

In the 2016-2017 time period, CISC will receive for delivery:

- **Seismic Design of Industrial Steel Structures + CSA S16-14 Annex M** (4 hr, new, live online)
- **Conception, fabrication et construction de ponts en acier** (16 hr, updated, Self-Paced Learning)
- **Conception de bâtiments industriels en acier** (8 hr, updated, Self-Paced Learning)
- **What's New: CISC Handbook and CSA S16-14** (8 hr, new, Self-Paced Learning)
- **NBCC 2015 Low Hazard and Low Seismicity Procedures** (2 hr, new, live online)



# CISC SOLUTIONS CENTRE

The CISC Solutions Centre aims to be the one-stop resource for framing solutions and technical information on designing steel buildings and bridges in Canada. We are committed to fostering the development and sharing of knowledge and best practices in the construction industry through our various resources.

## TECHNICAL INQUIRIES AND SOLUTIONS

The demand for services remains very high. Various means to provide the services to engineers, architects and other users and potential users of steel in construction include:

i	?	!
<p><b>CISC HELP DESK</b> Solutions Centre staff routinely answer calls and emails, etc. from structural engineers and others.</p>	<p><b>FREQUENTLY ASKED QUESTIONS WEBPAGE</b> The CISC Frequently Asked Questions webpage has been updated, refreshed and reorganized.</p>	<p><b>TECHNICAL BULLETINS WEBPAGE</b> The CISC Technical Bulletins webpage has been redone.</p>

## DESIGN AIDS AND EDUCATIONAL MATERIALS

The Solutions Centre has consolidated popular content delivered via existing means and has started to develop new material to be conveyed to users and potential users through new channels.

### POPULAR CONTENT

- ↑
**Q & A Technical Column**  
 Alfred Wong's Technical Column in Advantage Steel magazine on selected topics with questions and answers remains popular.
- ↑
**Seismic Corner**  
 CISC Solutions Centre staff regularly write about seismic issues in the Seismic Corner column in Advantage Steel magazine.
- ↑
**Steel Industry News**  
 This new column was recently added to Advantage Steel magazine. It aims to cover steel design topics and steel products news, etc.
- ↑
**CISC Technical Forum**  
 The Forum has been replaced by new forums and channels to service users and potential users of steel.

## NEW CHANNELS AND ADDITIONAL MATERIALS

- +
**Steelknowledge.ca -**  
**New CISC Solutions Centre Blog launched** → <http://steelknowledge.ca>  
 SC launched the Steel Knowledge Blog in April 2016. It aims to feature various topics related to engineering design, construction, fire protection and supply of structural steel, OWSJ, platework, connection materials, etc. Users are directed to the Blog via the CISC website. The blog will be constantly updated with new and fresh content and will be integrated into and promoted through various online and social media channels.
- +
**Short Videos on YouTube**  
 SC has started to prepare footage for short videos illustrating various features of steel construction and steel production in different stages. The final products will be presented on YouTube, via a link from the CISC Website.
- +
**Brief Steel Design Guides and Notes**  
 SC aims to issue brief design guides and technical notes that feature steel design topics selected to address popular needs. SC aims to issue a new brief guide at quarterly or more frequent intervals.



Solutions Centre Steel Knowledge Blog

## NEW HANDBOOK OF STEEL CONSTRUCTION, 11TH EDITION

Staff engineers have been busy preparing new publications and updating other publications and documents in both hardcopy and digital formats. The new 11th edition of the Handbook of Steel Construction was published in early 2016 with major updates reflecting important changes introduced in CSA Standards S16, G40.20/21, W59, ASTM A6, etc. It also incorporates new features to help non-industry users identify commonly available structural shapes and select plates, bolts, etc., as well as anchor rod data, new connection types, new connection tables/charts and more guidance on connection design, etc. The new 10th edition of Limits States Design by Kulak and Grondin was also published in the summer.



Handbook of Steel Construction - 11th Edition

## ELECTRONIC APPS

- 
**Steel Section Dimensions**  
 The Steel Section Dimensions App replaces the CISC Steel Pocket Data publication. It is available in 2 mobile platforms, for the Apple iPhone and tablets, and Android mobile devices. All data provided are consistent with the new Handbook (11th Edition). The data are given in both metric and Imperial units.
- 
**Steel Seismic Systems 2010 (SSS10)**  
 The Steel Seismic Systems 10 (SSS10) App will help structural engineers to quickly identify the permissible SFRS systems to use under NBC 2010 and CSA S16-09, saving valuable time and ensuring accuracy.
- 
**Lateral Forces 2010 (LF10)**  
 The Lateral Forces 10 (LF10) App is designed to help structural engineers compute wind and seismic storey forces for steel-framed buildings.
- 
**Steel Section Properties (under development)**  
 The Steel Section Properties App contains section properties for engineering design, as well as section dimensions as covered in the Steel Section Dimensions App, also in dual unit systems.

## PROJECT SOLUTIONS

Project Solutions (PS) services are and have been an important part of CISC's overall plan to promote steel as the material of choice for construction. Through Project Solutions, the steel industry gets their message across to owners, developers, project managers, architects, engineers, cost consultants and other decision makers who cannot be reached via other means of delivery, such as courses and seminars.

### Economical Steel Framing Solution - New Case Study

This project study illustrates the structural design, including cost estimating, for a building selected to demonstrate the advantages of a steel-framed solution. Project Solutions aims to complete the study in 2016.

### Cost Index Update - 2016

CISC Cost Indices are an integral part of the cost estimating method described in Project Solutions Cost Estimating Method (see Publications). CISC sincerely thanks all members who participated in this year's cost index survey. Their efforts allow valid cost indices to be maintained. Only the participants received the survey results.

# TECHNICAL PUBLICATIONS

CISC publishes several leading publications on structural steel design. Foremost among these is the Handbook of Steel Construction – the standard reference for the engineering community.

## NEW PUBLICATIONS



### HANDBOOK OF STEEL CONSTRUCTION - 11TH EDITION 2016

The Handbook of Steel Construction contains detailed information on the design and detailing of structural steel in metric units. The 11th Edition has been updated to reflect changes to CSA S16-14 and the structural section data. It is intended to be used together with the National Building Code of Canada 2015. Member design tables are based on steel grades ASTM A992, A572 Grade 50, A913 Grade 65, A500 Grade C and CSA G40.21-350W.



### CISC CODE OF STANDARD PRACTICE – 8TH EDITION 2015

This publication, reprinted in Part 7 of the Handbook, is also available separately in both English and French as a free download on the CISC website. Updates since the 7th Edition include new provisions on erection stability and Building Information Modelling (BIM).



### LIMIT STATES DESIGN IN STRUCTURAL STEEL, 10TH EDITION 2016

G.L. Kulak and G.Y. Grondin

This book serves as a complete teaching text for universities and technical colleges, and also as a valuable reference document for practicing engineers. It explains the philosophy and practical applications of limit states design procedures and provides comments on design requirements contained in CSA S16-14.



### CISC COMMENTARY ON CSA S16-14 ANNEX K STRUCTURAL DESIGN FOR FIRE CONDITIONS

The CISC Commentary for CSA S16-14's Annex K, Structural Design for Fire Conditions, is now available as a 20-page pdf download via [www.cisc-icca.ca/CommentaryS16AnnexK](http://www.cisc-icca.ca/CommentaryS16AnnexK) (as noted in CISC's Handbook of Steel Construction, Part Two, CISC Commentary on CSA S16-14, Clause 6.7, Requirements Under Fire Conditions on page 2-9). Commentary has been adapted from an existing Commentary to AISC's Specification for Structural Steel Buildings, Appendix 4, Structural Design for Fire Conditions (AISC, 2010, 2nd edition), that has been prepared by AISC's Committee on Specifications, Task Committee, TC8, on Structural Design for Fire Conditions.



### CRANE-SUPPORTING STEEL STRUCTURES, 3RD EDITION 2015

R.A. MacCrimmon

This guide fills a long-standing need for technical information on the design and construction of crane-supporting steel structures that is compatible with Canadian standards and written in Limit States format. It is intended to be used in conjunction with the National Building Code of Canada 2015 and CSA Standard S16-14, Design of steel structures.

## CURRENT PUBLICATIONS



### CALCUL DES CHARPENTES D'ACIER

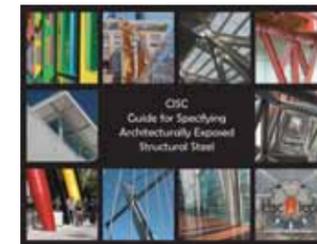
D. Beaulieu, A. Picard, R. Tremblay, G. Grondin, B. Massicotte

The first volume in the French-language series is intended mainly for undergraduate students, while the second is aimed at graduate students and practicing engineers. This comprehensive reference features chapters on steel properties, composite beams, plate girders, connection design (including gussets and column base plates), brittle fracture and fatigue. Available in French only.



### MOMENT CONNECTIONS FOR SEISMIC APPLICATIONS

The second edition supersedes the first edition published in 2004 and based on FEMA 350, "Recommended Seismic Design Criteria for New Steel Moment Frame Buildings." Completely revised and expanded to include reduced beam section, bolted unstiffened and stiffened end-plate, and bolted flange plate moment connections, the second edition presents design provisions comparable to those governing the design of generic beam-to-column connections in ANSI/AISC 358, "Prequalified Connections for Special and Intermediate Steel Moment Frames for Seismic Applications."



### CISC GUIDE FOR SPECIFYING ARCHITECTURALLY EXPOSED STRUCTURAL STEEL

Terri Meyer Boake

Developed primarily for Architects, this guide is also intended for all design professionals interested in AESS applications. The contents feature: the Categories Matrix, characteristics, coatings and finishes, connections, curves and cuts, and erection considerations.



### CISC PROJECT SOLUTIONS COST-ESTIMATING METHOD FOR STEEL BUILDING STRUCTURES

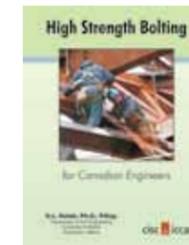
This guide provides a "do-it-yourself" method for estimating the cost of erected structural steel, which is widely used by estimators, designers and other construction professionals. Updates since the previous 1979 edition include a new feature to account for cost differences between members in Conventional Construction and those used in more ductile seismic force-resisting frames.



### FIRE FACTS FOR STEEL BUILDING

R.G. Gewain, N.R. Iwankiw, F. Alfawakhiri, G.S. Frater

This publication is intended to serve as a general reference and introductory primer, in a convenient question-and-answer format, for the benefit of engineers, architects, building code officials, owners, developers, construction managers, general contractors and others with an interest in the subject. More detailed information, data, analysis or design criteria are available in the cited references. This reference is based mainly on NBC 2005.



### HIGH STRENGTH BOLTING FOR CANADIAN ENGINEERS

G.L. Kulak

The purpose of this primer is to provide structural engineers with the information necessary to select suitable high-strength bolts, specify the methods of installation and inspection, and design connections that use this type of fastener. Bolts can either be common bolts (sometimes called ordinary or machine bolts) or high-strength bolts. Although both types are described, emphasis is placed on high-strength bolts. Because many riveted structures are still in use and often their adequacy must be verified, a short description of rivets is also provided. This publication refers to CSA S16-01 (buildings and related structures) and CSA S6-00 (bridges).



**OVER 900**  
books sold through Amazon



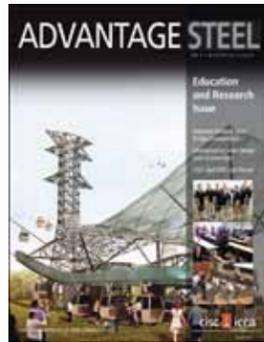
**15**  
CISC publications being sold on Amazon



**OVER 95%**  
of orders have been online  
since February 2016



## NEW ADVANTAGE STEEL MAGAZINE ISSUES



Education & Research Issue



Innovation in Steel Construction Issue



CISC Annual Conference Issue

## NEW MARKETING FLYERS



New Handbook of Steel Construction



Bridges



Flyer for Architects



CISC National Steel Symposium

## ADVANTAGE STEEL MONTHLY NEWSLETTER AND MEMBERS & ASSOCIATES QUARTERLY NEWSLETTER

- Advantage Steel Monthly Newsletter continues to enjoy strong readership with over **3,000** subscribers
- The average open rate for Advantage Steel Monthly is **25%**
- Our Members & Associates Quarterly Newsletter has been a great tool for communicating with Members and Associates. The average open rate for this quarterly newsletter is over **30%**
- We sent out **12 issues** of Advantage Steel Monthly and **4** Members and Associates Quarterly Newsletters this past year.
- 3 issues** of a newly redesigned Advantage Steel magazine were published reaching over **6,500 subscribers**



Advantage Steel Monthly



Members and Associates Quarterly Newsletter

## CISC AND STEEL INDUSTRY DEVELOP STEEL NARRATIVE TO SHOWCASE STEEL AS THE MATERIAL OF CHOICE

The CISC and steel industry partners have completed the development of a Steel Narrative that more effectively communicates the strengths of steel and positions it as the material of choice.

The Narrative presents facts and evidence based information designed to counter the false claims and inaccurate comparisons being made by some of the other building material sectors.

A brochure outlining the key points of the narrative is also under development.

## ANOTHER TRIUMPHANT STEELDAY FOR OUR MEMBERS & ASSOCIATES

CISC hosted another successful SteelDay on September 18, 2015.

With 33 hosts and just under 3,000 attendees, SteelDay was abuzz with a variety of events, tours and demonstrations from region to region. CISC also engaged in real-time Tweeting to keep our members, associates and attendees engaged. Our members and associates also participated in the social media buzz, and it was fun to watch all the events unfold.



**33**  
HOSTS

JUST UNDER  
**3,000**  
ATTENDEES



# SUSTAINABILITY

## SUSTAINABLE STEEL

We have spent the last year actively telling the sustainability story of steel—the world’s greenest building material—through educational presentations, marketing campaigns, tradeshow exhibits and the development of case studies for all our key stakeholders including architects, engineers, owners, government and others.

## CISC DEVELOPS EPDs FOR MEMBERS AND ASSOCIATES BIDDING ON LEED PROJECTS

Given that many LEED projects will start requiring EPDs from our steel fabricators starting in October when LEED v4 becomes mandatory, the CISC has launched a national project to develop industry average EPDs for fabricated hot rolled structural steel shapes, HSS and plate.

CISC is working to develop 6 Environmental Product Declarations (EPDs) for structural steel to comply with LEED v4.

We have completed the Fabricator environmental data collection survey, and data modelling is currently underway as part of the lifecycle analysis process that will result in an industry average LCA and EPDs.

## LEED V4 FOR FABRICATORS WEBINAR:

In December, we delivered a free webinar entitled “LEED V4 for Fabricators” to provide an overview to our Members and Associates of how LEED has evolved, what the requirements are in the newly rewritten Materials & Resources credit category, and how our Fabricators should prepare to respond.

## STRONG PARTNERSHIP WITH THE CANADA GREEN BUILDING COUNCIL (CaGBC)

The CISC has forged a robust partnership with the CaGBC in order to increase awareness of steel’s strong sustainability footprint, drive selection of steel for LEED projects, and to counter false and inaccurate claims being made by some of the other building materials. We have taken both national and certain regional level memberships and regularly attend their events to dialogue with key stakeholders and raise awareness of the sustainability benefits of steel.

We exhibited at the 2016 CaGBC Annual Conference entitled “Building Lasting Change” in June in Toronto.

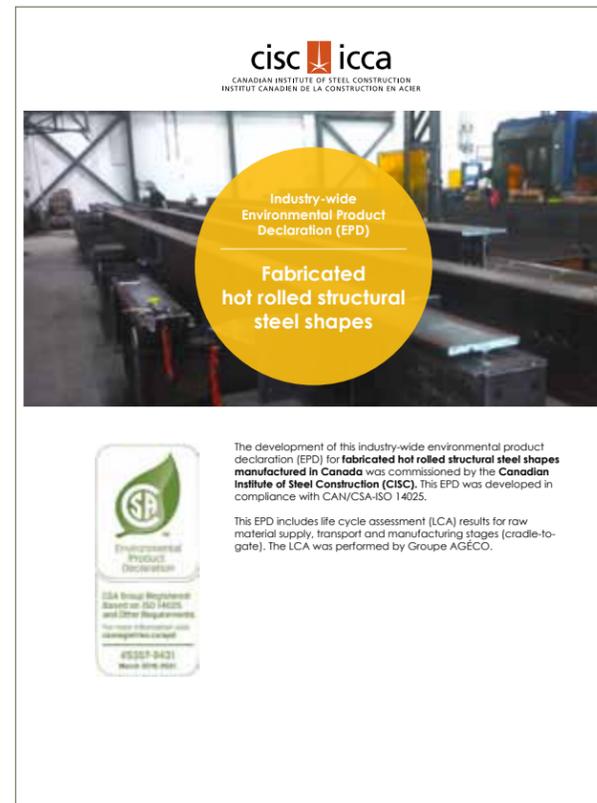
## FOR GREEN’S SAKE COLUMN IN ADVANTAGE STEEL MAGAZINE

This column is designed to keep our industry abreast of the latest trends and developments in the green building world. Four articles have been published in Advantage Steel magazine this past year covering topics such as LEED v4 Materials & Resources credits, Environmental Product Declarations, the WELL Building Standard, and Health Product Declarations (HPDs).

## SUSTAINABILITY PRESENTATION AT INDUSTRY CONFERENCES

CISC delivered numerous sustainability presentations in the past year at key industry conferences, including sharing the results of our two LCA studies. These included:

- Technical seminar at Buildex Vancouver
- Presentation at the Ontario Association of Architects Annual Conference
- Presentation at the Royal Architectural Institute of Canada Annual Conference
- Presentation at the Quebec Steel Symposium



# CODES AND STANDARDS

The CISC participates in standard development activities for many codes and standards nationally and internationally representing the steel industry.

## NATIONAL BUILDING CODE OF CANADA

The Code has published. Preparation of the Commentary to Part 4 is in progress. It will publish later in 2016.

The CISC and/or its representatives serve on the Standing Committee on Structural Design (SCSD), the Standing Committee on Earthquake Design (SCED) and the Commission of Building and Fire Codes, all for a five-year term commencing last fall. In addition, the CSCC serves on the Standing Committee on Fire Protection.

Both the SCSD and the SCED have been very busy. Incorporation of the National Farm Building Code into NBC 2020 in various possible formats is underway.

## CSA STANDARD S16 - DESIGN OF STEEL STRUCTURES

S16-14 published two years ago, in time for adoption by reference in NBC 2015. CSA published the first issue of errata for S16-14 last fall. In addition, an amendment which includes an annex for racking structures is being planned and may be published this fall. The new CISC Handbook, published in May 2016, includes the version of S16-14 that incorporates the errata.

Activities for the next cycle have already started. CISC staff serve as Vice Chair of TC S16 and as Committee Secretary.

## CISC SUCCESSFULLY OBTAINS REFERENCE TO QUALITY CERTIFICATION PROGRAM IN CSA S6

The Canadian Highway Bridge Design Code, S6-14, published in early 2015. Very significant changes were adopted in the seismic design, analysis and foundations sections of S6. A notable new requirement is the mandatory quality management system for bridge fabrication. The CISC’s leadership and active efforts have led to the CISC Quality Certification program being specifically mentioned in S6 as meeting the new requirements for quality certification for Steel bridges.

## ISO TC167 - STEEL AND ALUMINIUM STRUCTURE (STANDARDS)

The ISO technical committee responsible, ISO TC167, is working on a new international standard for structural steel fabrication. The CISC is actively engaged by chairing a Working Group to ensure Canadian interests are addressed.

# LIFETIME ACHIEVEMENT AWARD WINNERS

## JOHN MARK *Lifetime Achievement Award Winner*



### JOHN MARK'S PASSION FOR STEEL BEGAN WITH ENGINEERING AND A DESIRE TO BUILD.

Armed with his Master's degree in Engineering from Queen's University, he joined one of the preeminent structural steel fabricators of the time, Frankel Structural Steel. Under the direction of G. J. Jackson, an icon within the industry, John developed a respect for the strength of the steel industry. While working at Frankel Steel, John was involved in such

projects as First Canadian Place and TD Tower 3 in downtown Toronto.

With 18 years of experience behind him, John along with his partner, Mel Grimes, started M&G Steel in the late '80s. Together with an arsenal of enthusiasm and knowledge, M&G prospered at a time when many other steel fabricators were shutting down. M&G originally set-

up offices in Mississauga and would later make their current home in Oakville, Ontario. During his time with M&G, some of his major projects included the new GM Paint Plant Shop facility and the Ferrero Rocher North American Headquarters and Plant, both in Ontario.

John retired in 2009 but continued in the steel industry with the development and delivery of CISC connection design courses across the nation. He has maintained his current status as a consultant to several fabricators and continues to stay current through involvement with CSA S16 and Professional Engineers of Ontario committees.

He remains a valuable resource to the industry, representing integrity and knowledge while being a strong proponent of the CISC, even serving as the CISC Ontario Region Chairman during his time at Frankel. In 2011 John was recognized by the CISC Ontario Region for his contributions to the industry with the History of Strength medal.

## GEORGE CHAPMAN *Lifetime Achievement Award Winner*



### GEORGE'S LIFE AND PASSION HAS BEEN DEVOTED TO THE STEEL INDUSTRY.

In 1957 his steel career started in the United Kingdom, with an apprenticeship as a structural steel draftsman. Mostly working on riveted structures, he worked on rebuilding the famous Coventry Cathedral that was destroyed in World War II.

He was employed as a structural steel detailer for Bridge and Tank Western Ltd. and because of his experience with rivets, he quickly became lead draftsman. During this time George worked on the Meikle River Bridge for CN, a 2,000-foot long riveted trestle bridge, likely one of the last of its kind to be built in Canada. In 1965, he became Chief Draftsman for Canada Iron in Winnipeg and supervised a team of 15 in the drawing office.

George's next venture was a partnership in a new company, Triangle Steel (Calgary) Ltd., in 1968. As a young 30 year old, George found himself having to run the company after the unexpected death of the General Manager. In 1970, he became General Manager, a position he held until 1996. Then, at the age of 57, when most people are thinking about retiring, he decided to branch out on his own and took ownership of TSE Steel Ltd., formerly Triangle Steel Erectors Ltd.

During his 46 years in Calgary, he created a well-respected and efficient steel fabrication business based on the principles of being fair and treating customers, suppliers and employees with respect. George has volunteered much of his time to many industry related associations across Alberta and the country. He has always respected and recognized the positive impact of what the CISC has done for the industry. After a successful fifty-seven and a half years in the industry, George retired in the fall of 2014.

# 2015-2016 BOARD OF DIRECTORS

## EXECUTIVE COMMITTEE

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*Chair*

**Paul Mikolich**, Gerdau  
*Vice-Chair*

**Harrison Wilson**, Ocean Steel & Construction Ltd.  
*Past-Chair*

**Ed Whalen**, CISC  
*President*

**Kevin Kelly**, Atlas Tube Canada ULC  
*Exec & Steel Mill*

**Todd Collister**, Supreme Group  
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**Tim Houtsma**, Marid Industries Ltd.  
*ATL Region*

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**Terry Burns**, Canon  
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**Peter Davies**, Weldfab Steel Fabricators  
*SK Region*

**Adam Nicolajsen**, Sperling Ind.  
*MB Region*

**Paul Seibel**, ACL Steel Ltd.  
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**David Drouin**, Quirion Metal  
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**Douglas Luciani**, CWB Group  
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**Joel Nadeau**, Canam  
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**Rob Third**, George Third & Son  
*E&R Council Rep*

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Todd Collister, Supreme Steel  
*AB*

### Marketing & Sustainability Committee

Laurier Trudeau (Interim), Abesco Ltd.  
*MB*

### Education & Research Council

Rob Third, George Third & Son,  
*BC*

### Detailing & Software Committee

Alden Prier, Apex Structural Design Ltd.,  
*AB*

## MEMBER & ASSOCIATE PRODUCTS / SERVICES DIRECTORY

<b>Membership list as of July 25, 2016</b>		<b>Canam-Buildings, a division of Canam Group Inc.</b> J, S St-Georges, QC 418-228-8031 www.canam.ws		<b>ACL Steel Ltd.</b> S Kitchener, ON 519-568-8822 www.aclsteel.ca		<b>M.I.G. Structural Steel (Div. of 3526674 Canada Inc.)</b> S St-Isidore, ON 613-524-5537 www.migsteel.com		<b>Supreme Steel LP</b> B, S Winnipeg, MB 204-589-7371 www.supremegroup.com		<b>Precision Steel &amp; Manufacturing Ltd.</b> S Edmonton, AB 780-449-4244 www.precisionsteelab.ca		<b>Wesbridge Steelworks Limited</b> S Delta, BC 604-946-8618 www.wesbridge.com		<b>VARSTEEL Ltd.</b> S Delta, BC 604-946-2717 www.varsteel.ca Beam, angle, channel, HSS plate, sheet, expanded metal, pipe flats, rounds etc.	
<b>Legend:</b> *sales office only B Buildings Br Bridges S Structural P Platework J Open-web Steel Joist		<b>Canam-Heavy, a division of Canam Group Inc.</b> J, S Boucherville, QC 450-641-4000 www.canamheavy.com		<b>Akal Steel (2005) Inc.</b> B, P, S Brampton, ON 905-458-7555 www.akalsteel.ca		<b>Mariani Metal Fabricators Limited</b> S Etobicoke, ON 416-798-2969 www.marianimetal.com		<b>Anlin Welding &amp; Steel Fabrication</b> B, S Regina, SK 306-721-6566 www.anlinwelding.com		<b>Rampart Steel Ltd.</b> S Edmonton, AB 780-465-9730 www.rampartsteel.com		<b>West Coast Steel Ltd.</b> B, Br Coquitlam, BC 604-554-0171 http://www.westcoaststeel.ca		<b>VARSTEEL Ltd.</b> S Lethbridge, AB 403-320-1953 www.varsteel.ca Beam, angle, channel, HSS plate, sheet, Grating, expanded metal, pipe, flats, rounds etc.	
<b>MEMBERS</b>		<b>Canmec La Baie</b> B, Br La Baie, QC 418-544-3319 www.canmec.com		<b>Arkbro Structures</b> S Mississauga, ON 905-766-4038 www.arkbrostructures.com		<b>Mirage Steel Limited</b> S Brampton, ON 905-458-7022 www.miragesteel.com		<b>Avanti Steel Fabricators Ltd.</b> S Regina, SK 306-352-1650 www.avantisteel.com		<b>Rapid-Span Bridges Inc.</b> Br County of Grande Prairie No. 1, AB 780-538-9199		<b>XL Ironworks Co.</b> J, S Surrey, BC 604-596-1747 www.xliron.com		<b>VARSTEEL Ltd.</b> S Nisku, AB 780-955-1953 www.varsteel.ca	
<b>STEEL FABRICATOR ATLANTIC</b>		<b>Constructions PROCO Inc.</b> S St. Nazaire, QC 418-668-3371 www.proco.ca		<b>Benson Steel Limited</b> J, S Bolton, ON 905-857-0684 www.bensonsteel.com		<b>Norak Steel Construction Limited</b> S Concord, ON 905-669-1767 www.noraksteel.com		<b>Elance Steel Fabricating Co. Ltd.</b> S Saskatoon, SK 306-931-4412 www.elancesteel.com		<b>Sierra Fabricating and Manufacturing</b> S Devon, AB 780-987-2676 www.sierrafab.ca		<b>Acier Leroux Boucherville, Division de Métaux Russel Inc.</b> S Boucherville, QC 450-641-2280 www.leroux-steel.com		<b>VARSTEEL Ltd.</b> S Saskatoon, SK 360-955-3777 www.varsteel.ca	
<b>Cherubini Metal Works Limited</b> B, Br, P, S Dartmouth, NS 902-468-5630 www.cherubinigroup.com		<b>Lainco Inc.</b> B, Br, S Terrebonne, QC 450-965-6010		<b>Burnco Mfg. Inc.</b> Br, S Concord, ON 905-761-6155 www.burncomfg.com		<b>Paradise Steel Fab. Ltd.</b> S Etobicoke, ON 905-770-2121		<b>IWL Steel Fabricators Ltd.</b> B, P, S Martensville, SK 306-242-4077 www.iwlsteel.com		<b>Spartan Steel</b> S Edmonton, AB 780-435-3807		<b>Acier Pacifique Inc.</b> S Laval, QC 514-384-4690 www.pacificsteel.ca		<b>Wilkinson Steel and Metals, Division of Samuel, Son &amp; Co., Limited</b> S Edmonton, AB 780-434-8441 www.wilkinsonsteel.com	
<b>Design Built Mechanical Inc.</b> B, Br, S Charlo, NB 506-684-2765 www.dbmnc.ca		<b>Les Aciers Fax inc.</b> B, S Charlesbourg, QC 418-841-7771		<b>Canam-Buildings, a division of Canam Group Inc.</b> J, S Mississauga, ON 905-671-3460 www.canam-construction.com		<b>Pittsburgh Steel Group</b> S Mississauga, ON 905-362-5097 www.pittsburghsteel.com		<b>IWL Steel Fabricators Ltd.</b> B, P, S Saskatoon, SK 306-242-4077 www.iwlsteel.com		<b>Superm�tal Structures Inc., Western Division</b> P, S Leduc, AB 780-980-4830 www.supermetal.com		<b>Custom Plate &amp; Profiles Ltd. a div. of Samuel, Son Co. Ltd</b> S Delta, BC 604-524-8000 www.customplate.net Cut to size steel plate in various grades to 12" thick. Stock size sheets of plate to 12"		<b>Wilkinson Steel and Metals, Division of Samuel, Son &amp; Co., Limited</b> S Saskatoon, SK 306-652-7151 www.wilkinsonsteel.com	
<b>MacDougall Steel Erectors Inc.</b> B, P, S Borden-Carleton, PE 902-855-2100 www.macdougallsteel.com		<b>Les Charpentes d'acier Sofab Inc.</b> S Boucherville, QC 450-641-2618 www.sofab.ca		<b>Central Welding &amp; Iron Works Group</b> B, Br, P, S North Bay, ON 705-474-0350 www.centralwelding.ca		<b>Quad Steel Inc.</b> S Bolton, ON 905-857-9404 www.quadsteel.ca		<b>Weldfab Ltd.</b> S Saskatoon, SK 306-955-4425 www.weldfab.com		<b>Supreme Steel LP</b> S Acheson, AB 780-980-4830 www.supremegroup.com		<b>York-Ennis, A Division of Russel Metals Inc.</b> S Mississauga, ON 905-819-7297 www.russelmetals.com		<b>YORK-ENNIS, A Division of Russel Metals Inc.</b> S Mississauga, ON 905-819-7297 www.russelmetals.com	
<b>Marid Industries Limited</b> B, S Windsor Junction, NS 902-860-1138 www.marid.ca		<b>Les Constructions Beauce-Atlas Inc. - Plant 1</b> S Ste-Marie de Beauce, QC 418-387-4872 www.beuceatlas.ca		<b>Cookville Steel Limited</b> S Kitchener, ON 519-893-7646 www.cookvillesteel.com		<b>Shannon Steel Inc.</b> S Orangeville, ON 519-941-7000 www.shannonsteel.com		<b>ALBERTA</b>		<b>Supreme Steel LP</b> P, S Edmonton, AB 780-483-3278 www.supremegroup.com		<b>Dymin Steel (Western) Inc.</b> S Abbotsford, BC 604-852-9664 www.dymin-steel.com		<b>Atlas Tube Canada ULC</b> S Harrow, ON 519-738-5000 www.atlastube.com	
<b>Modular Fabrication Inc.</b> Br, S Miramichi, NB 506-622-1900 www.modularfab.com		<b>Les Constructions Beauce-Atlas Inc. - Plant 2</b> Br Ste-Marie de Beauce, QC		<b>Cookville Steel Limited</b> S Mississauga, ON 905-277-9538 www.cookvillesteel.com		<b>Telco Steel Works Ltd.</b> S Guelph, ON 519-837-1973 www.telcosteelworks.ca		<b>Bow Ridge Steel Fabricating</b> S Calgary, AB 403-230-3705		<b>Supreme Steel LP, Bridge Division</b> B, Br, P, S Edmonton, AB 780-467-2266 www.supremegroup.com		<b>Dymin Steel Inc.</b> S Brampton, ON 905-840-0808 www.dymin-steel.com		<b>Essar Steel Algoma Inc.</b> S Sault Ste. Marie, ON 705-945-2351 www.essarsteelalgoma.com	
<b>MQM Quality Manufacturing Ltd.</b> P, S Tracadie-Sheila, NB 506-395-7777 www.mqm.ca		<b>Les Industries V.M. Inc.</b> S Longueuil, QC 450-651-4901 www.industriesvm.com		<b>Trade-Tech Industries, Inc.</b> B, P, S Bowmanville, ON 905-623-5060 www.tradetech.ca		<b>Trevco Steel Ltd.</b> B Erin, ON 519-833-9009 www.trevcosteel.ca		<b>C.W. Carry (1967) Ltd.</b> P, S Edmonton, AB 780-465-0381 www.cwcarry.com		<b>Triangle Steel (1999) Ltd.</b> P, S Calgary, AB 403-279-2622 www.trianglesteel.com		<b>Dymin Steel Inc.</b> S Nisku, AB 780-979-0454 www.dymin-steel.com		<b>Gerdaul Corporation</b> S Whitby, ON 905-668-8811 www.gerdaul.com/longsteel	
<b>Ocean Steel &amp; Construction Ltd.</b> S Fredericton, NB 506-444-7989 www.oceansteel.com		<b>Les Structures C.D.L. Inc.</b> S St-Romuald, QC 418-839-1421 www.structurescdl.com		<b>Tresman Steel Industries Ltd.</b> S Mississauga, ON 905-795-8757 www.tresmansteel.com		<b>Victoria Steel Corporation</b> S Oldcastle, ON 519-737-6151 www.victoriasteel.ca		<b>Canam-Buildings, a division of Canam Group Inc.</b> J, S Calgary, AB 403-252-7591 www.canam-construction.com		<b>TSE Steel Ltd.</b> S Calgary, AB 403-279-6060 www.tsesteel.com		<b>W.F. Welding &amp; Overhead Cranes Ltd.</b> S Nisku, AB 780-955-7671 www.wfwelding.com		<b>Waiward Steel LP</b> P, S Edmonton, AB 780-469-1258 www.waiward.com	
<b>Ocean Steel &amp; Construction Ltd.</b> B, Br, P, S Saint John, NB 506-632-2600 www.oceansteel.com		<b>Les Structures G.B. Lt�e</b> P, S Rimouski, QC 418-724-9433 www.structuresgb.com		<b>Fortran Steel Contracting Ltd.</b> S Ottawa, ON 613-821-4014 www.fortransteel.com		<b>Walters Inc.</b> Br, P, S Hamilton, ON 905-388-7111 www.waltersinc.com		<b>Collins Industries Ltd.</b> S Edmonton, AB 780-440-1414 www.collins-industries-ltd.com		<b>W.F. Welding &amp; Overhead Cranes Ltd.</b> S Nisku, AB 780-955-7671 www.wfwelding.com		<b>Whitemud Ironworks Limited</b> S Edmonton, AB 780-701-3295 www.whitemudgroup.ca		<b>Ward Steel LP</b> P, S Edmonton, AB 780-469-1258 www.waiward.com	
<b>Prebilt Structures Ltd.</b> S Charlottetown, PE 902-892-8577 www.prebiltsteel.com		<b>M�tal Moro inc</b> S Montmagny, QC 418-248-1018		<b>G &amp; P Welding and Iron Works</b> P, S North Bay, ON 705-472-5454 www.gpwelding.com		<b>Walters Inc.</b> B, P, S Princeton, ON 403-527-4190 www.hranco.com		<b>Empire Iron Works Ltd.</b> J, P, S Wabamun, AB 780-892-3773 www.empireiron.com		<b>Waiward Steel LP</b> P, S Edmonton, AB 780-469-1258 www.waiward.com		<b>Russel Metals Inc.</b> S Edmonton, AB 780-439-2051 www.russelmetals.com		<b>Whitemud Ironworks Limited</b> S Edmonton, AB 780-701-3295 www.whitemudgroup.ca	
<b>RKO Steel Limited</b> B, Br, S Amherst, NS 902-892-8577 www.rkosteel.com		<b>M�tal Perreault Inc.</b> B, P, S Donnacona, QC 418-285-4499 www.metalperreault.com		<b>Gensteel - Division of Austin Steel Group Inc.</b> S Brampton, ON 905-799-3324 www.gensteel.ca		<b>Walters Inc.</b> B, P, S Princeton, ON 403-527-4190 www.hranco.com		<b>Eskimo Steel Ltd.</b> P, S Sherwood Park, AB 780-417-9200 www.eskimosteel.com		<b>Waiward Steel LP</b> P, S Edmonton, AB 780-469-1258 www.waiward.com		<b>Russel Metals Inc.</b> S Lakeside, NS 902-876-7861 www.russelmetals.com		<b>Whitemud Ironworks Limited</b> S Edmonton, AB 780-701-3295 www.whitemudgroup.ca	
<b>RKO Steel Limited - Plant 1</b> B, P, S Dartmouth, NS 902-468-1322		<b>Mometal Structures Inc.</b> B, S Varennes, QC 450-929-3999 www.mometal.com		<b>Hopkins Steel Works Limited</b> B, S Welland, ON 905-732-6018 www.hopkinssteel.com		<b>Walters Inc.</b> B, P, S Stoney Creek, ON 905-388-7111 www.waltersinc.com		<b>Garneau Manufacturing Inc.</b> S Morinville, AB 780-939-2129		<b>Waiward Steel LP</b> P, S Edmonton, AB 780-469-1258 www.waiward.com		<b>Russel Metals Inc.</b> S Mississauga, ON 905-819-7777 www.russelmetals.com		<b>Whitemud Ironworks Limited</b> S Edmonton, AB 780-701-3295 www.whitemudgroup.ca	
<b>RKO Steel Limited - Plant 2</b> B, P, S Dartmouth, NS 902-468-1322		<b>NGA Structure Inc.</b> B, S Drummondville, QC 819-477-6891 www.nga.qc.ca		<b>IBL Structural Steel Limited</b> B Mississauga, ON 905-671-3301 www.iblsteel.com		<b>Walters Inc.</b> B, P, S Stoney Creek, ON 905-388-7111 www.waltersinc.com		<b>Hyduke Drilling Solutions</b> B Nisku, AB 780-955-0360 www.hyduke.com		<b>Waiward Steel LP</b> P, S Edmonton, AB 780-469-1258 www.waiward.com		<b>Russel Metals Inc.</b> S Mississauga, ON 905-819-7777 www.russelmetals.com		<b>Whitemud Ironworks Limited</b> S Edmonton, AB 780-701-3295 www.whitemudgroup.ca	
<b>RKO Steel Limited</b> B, Br, S Riverview, NS 902-892-8577 www.rkosteel.com		<b>Produits M�talliques PMI</b> S Rimouski, QC 418-723-2610 www.pmistructures.com		<b>Lambton Metal Services</b> S Sarnia, ON 519-344-3939 www.lambtonmetalservice.ca		<b>Walters Inc.</b> B, P, S Stoney Creek, ON 905-388-7111 www.waltersinc.com		<b>Hyduke Drilling Solutions</b> B Nisku, AB 780-955-0360 www.hyduke.com		<b>Waiward Steel LP</b> P, S Edmonton, AB 780-469-1258 www.waiward.com		<b>Russel Metals Inc.</b> S Mississauga, ON 905-819-7777 www.russelmetals.com		<b>Whitemud Ironworks Limited</b> S Edmonton, AB 780-701-3295 www.whitemudgroup.ca	
<b>Tek Steel Ltd.</b> S Fredericton, NB 506-452-1949 www.teksteelltd.com		<b>Quirion M�tal Inc.</b> S Beauceville, QC 418-774-9881 www.quirionmetal.com		<b>Laplante Welding of Cornwall Inc.</b> S Cornwall, ON 613-938-0575 www.laplantewelding.com		<b>Walters Inc.</b> B, P, S Stoney Creek, ON 905-388-7111 www.waltersinc.com		<b>Hyduke Drilling Solutions</b> B Nisku, AB 780-955-0360 www.hyduke.com		<b>Waiward Steel LP</b> P, S Edmonton, AB 780-469-1258 www.waiward.com		<b>Russel Metals Inc.</b> S Mississauga, ON 905-819-7777 www.russelmetals.com		<b>Whitemud Ironworks Limited</b> S Edmonton, AB 780-701-3295 www.whitemudgroup.ca	
<b>QUEBEC</b>		<b>Structures XL</b> B, Br, J Terrebonne, QC 450-968-0800		<b>Linesteel (1973) Limited</b> B, S Barrie, ON 705-721-6677 www.linesteel.com		<b>Walters Inc.</b> B, P, S Stoney Creek, ON 905-388-7111 www.waltersinc.com		<b>Hyduke Drilling Solutions</b> B Nisku, AB 780-955-0360 www.hyduke.com		<b>Waiward Steel LP</b> P, S Edmonton, AB 780-469-1258 www.waiward.com		<b>Russel Metals Inc.</b> S Mississauga, ON 905-819-7777 www.russelmetals.com		<b>Whitemud Ironworks Limited</b> S Edmonton, AB 780-701-3295 www.whitemudgroup.ca	
<b>Acier M�taux Spec. inc.</b> S Chateauguay, QC 450-698-2161 www.metauxspec.ca		<b>Sturo Metal Inc.</b> S L�vis, QC 418-833-2107 www.sturometal.com		<b>Lorvin Steel Ltd.</b> S Brampton, ON 905-458-8850 www.lorvinsteel.com		<b>Walters Inc.</b> B, P, S Stoney Creek, ON 905-388-7111 www.waltersinc.com		<b>Hyduke Drilling Solutions</b> B Nisku, AB 780-955-0360 www.hyduke.com		<b>Waiward Steel LP</b> P, S Edmonton, AB 780-469-1258 www.waiward.com		<b>Russel Metals Inc.</b> S Mississauga, ON 905-819-7777 www.russelmetals.com		<b>Whitemud Ironworks Limited</b> S Edmonton, AB 780-701-3295 www.whitemudgroup.ca	
<b>Acier Robel inc.</b> S St-Eustache, QC 450-623-8449 www.acierobel.com		<b>Superm�tal Structures Inc.</b> P, S St-Romuald, QC 418-834-1955 www.supermetal.com		<b>M&amp;G Steel Ltd.</b> S Oakville, ON 905-469-6442 www.mgsteel.ca		<b>Walters Inc.</b> B, P, S Stoney Creek, ON 905-388-7111 www.waltersinc.com		<b>Hyduke Drilling Solutions</b> B Nisku, AB 780-955-0360 www.hyduke.com		<b>Waiward Steel LP</b> P, S Edmonton, AB 780-469-1258 www.waiward.com		<b>Russel Metals Inc.</b> S Mississauga, ON 905-819-7777 www.russelmetals.com		<b>Whitemud Ironworks Limited</b> S Edmonton, AB 780-701-3295 www.whitemudgroup.ca	
<b>Canam-Bridges, a division of Canam Group Inc.</b> B, S Laval, QC 450 786-1300 www.canambridges.com		<b>Tecno Metal Inc.</b> B, S Quebec, QC 418-682-0315 www.tecnometal.ca		<b>MANITOBA</b>		<b>Walters Inc.</b> B, P, S Stoney Creek, ON 905-388-7111 www.waltersinc.com		<b>Hyduke Drilling Solutions</b> B Nisku, AB 780-955-0360 www.hyduke.com		<b>Waiward Steel LP</b> P, S Edmonton, AB 780-469-1258 www.waiward.com		<b>Russel Metals Inc.</b> S Mississauga, ON 905-819-7777 www.russelmetals.com		<b>Whitemud Ironworks Limited</b> S Edmonton, AB 780-701-3295 www.whitemudgroup.ca	
<b>Canam-Bridges, a division of Canam Group Inc.</b> Br Qu�bec, QC 418-683-2561 www.canambridges.com		<b>ONTARIO</b>		<b>AC Metal Fabricating Ltd.</b> S Oldcastle, ON 519-737-6007		<b>Walters Inc.</b> B, P, S Stoney Creek, ON 905-388-7111 www.waltersinc.com		<b>Hyduke Drilling Solutions</b> B Nisku, AB 780-955-0360 www.hyduke.com		<b>Waiward Steel LP</b> P, S Edmonton, AB 780-469-1258 www.waiward.com		<b>Russel Metals Inc.</b> S Mississauga, ON 905-819-7777 www.russelmetals.com		<b>Whitemud Ironworks Limited</b> S Edmonton, AB 780-701-3295 www.whitemudgroup.ca	

<b>Genifab Consultants Inc.</b> Quebec, QC www.genifab.com	<b>B, Br</b> 418-622-1676
<b>Haché Technical Services Ltd./ Haché Services Techniques Ltée</b> Caraquet, NB	<b>B, P</b> 506-727-7800
<b>Husky Detailing Inc.</b> London, ON www.huskydetailing.com	<b>B</b> 519-850-9802
<b>iGL inc.</b> Trois-Rivières, QC	<b>B</b> 888-573-4982
<b>IKONA Drafting Services Inc.</b> Regina, SK	<b>B, Br, P</b> 306-522-2650
<b>INFocus Detailing Inc.</b> Kemble, ON www.infocusdetailing.com	<b>B, Br, P</b> 519-376-8717
<b>IRESKO Ltd.</b> Edmonton, AB www.steeldetailers.com	<b>B</b> 780-433-5606
<b>JCM &amp; Associates Limited</b> Frankford, ON www.jcmdrafting.com	<b>B, P</b> 613-398-6510
<b>JP Drafting Ltd.</b> Maple Ridge, BC www.jpdrafting.com	<b>B, Br, J, P</b> 604-465-8933
<b>KGS Group Steel Detailing Division</b> Winnipeg, MB www.ksgroup.com	<b>B</b> 204-896-1209
<b>Lancor Structural Design Ltd.</b> Shediac, NB www.lancorstructural.com	<b>B</b> 506-532-0838
<b>Les Dessins de Structure Steltec Inc.</b> Ste-Thérèse, QC www.steltec.ca	<b>B, Br, P</b> 450-971-5995
<b>Les Dessins Trusquin Inc.</b> Boisbriand, QC www.trusquin.com	<b>B, Br</b> 450-420-1000
<b>M &amp; D Management Consulting Ltd.</b> Parksville, BC	<b>B</b> 250-248-4871
<b>M-Tec Drafting Services Inc.</b> Sherwood Park, AB www.mtecdrafting.com	<b>B, Br, P</b> 780-467-0903
<b>ProDraft Inc.</b> Surrey, BC www.prodraftinc.com	<b>B, Br, P</b> 604-589-6425
<b>Ranmar Technical Services Ltd.</b> Mt. Pearl, NL www.ranmartech.com	<b>B, P</b> 709-364-4158
<b>River City Detailers Limited</b> Winnipeg, MB www.rivercitydetailers.com	<b>B, P</b> 204-221-8420
<b>Service Technique Asimut inc</b> Charny, QC www.asimut.ca	<b>B, Br, P</b> 418-988-0719
<b>Spec 5 Services Inc.</b> South Tetagouche, NB www.spec5services.com	<b>B, P</b> 506-546-2121
<b>Summyx inc.</b> Ste-Marie, Beauce, QC www.summyx.com	<b>Br, S</b> 418-386-5484
<b>TDS Industrial Services Ltd.</b> Prince George, BC www.tdsindustrial.com	<b>B, P</b> 250-561-1646
<b>Techdss Inc.</b> Saint-Jérôme, QC www.techdss.com	<b>B</b> 450-569-2629
<b>Tenca Steel Detailing Inc.</b> Charlesbourg, QC www.tencainc.com	<b>Br</b> 418-634-5225

<b>Vet Dessin</b> Terrebonne, QC www.vetdessin.com	<b>B, Br, J, P, S</b> 450-477-1000
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#### AFFILIATE

<b>CWB Group/Le Groupe CWB</b> Milton, ON www.cwbgroup.org	<b>B, P</b> 905-542-1312
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### ASSOCIATES

#### STEEL FABRICATOR (REVENUE LESS THAN \$3 MILLION)

<b>Acier Charron Ltée</b> Boisbriand, QC www.aciercharron.com	<b>B, Br, J, P, S</b> 450-434-1890
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<b>A-Post Aluminum Fabricators</b> Winnipeg, MB www.a-post.com	<b>B, Br, J, P, S</b> 204-663-8800
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<b>Bourque Industrial Ltd</b> Saint John, NB www.bourqueindustrial.com	<b>B, Br, J, P, S</b> 506-633-7740
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<b>CB Metal Works Inc</b> Avondale, NL	<b>B, Br, J, P</b> 709-229-1099
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<b>Century Steel Fabrications</b> Winnipeg, MB	<b>B, Br, J, P, S</b> 204-233-3300
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<b>CNS Fabrication Ltd.</b> Bolton, ON www.cnsfabrication.com	<b>B, Br, J, S</b> 905-428-0031
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<b>Coquitlam Steel Products Ltd.</b> Port Coquitlam, BC www.coquitlamsteel.com	<b>B, Br, J, S</b> 778-387-8294
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<b>Ed Lau Ironworks Limited</b> Kitchener, ON www.edlau.com	<b>B, Br, J, P, S</b> 519-745-5691
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<b>EZ-Steel (A division of Quirion Metal)</b> Leduc, AB www.ezsteel.ca	<b>B, Br, J, P, S</b> 780-980-2001
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<b>Ganawa Bridge Products and Services</b> Ajax, ON www.ganawa.ca	<b>B, Br, J, P, S</b> 905-686-5203
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<b>Headsteel Ltd.</b> Headingley, MB www.headsteel.ca	<b>B, Br, J, P, S</b> 204-831-1115
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<b>I &amp; M Welding &amp; Fabricating Ltd.</b> Saskatoon, SK	<b>B, Br, J, P, S</b> 306-955-4546
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<b>JCT Metals Inc.</b> Strathroy, ON www.jctmetalsinc.com	<b>B, Br, J, P, S</b> 519-518-0246
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<b>Les Ateliers Ferroviaires de Mont-Joli Inc. (a division of SEMA Railway Structures)</b> Sainte-Flavie, QC www.sema.ca	<b>B, Br, J, P, S</b> 418-775-7141
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<b>NorthWest Fabricators Ltd.</b> Athabasca, AB	<b>B, Br, J, P, S</b> 780-675-4900
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<b>Nor-Weld Ltd.</b> Orillia, ON www.norweld.com	<b>B, Br, J, P, S</b> 705-326-3619
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<b>Old Tymer Welding</b> Orillia, ON www.oldtymerwelding.com	<b>B, Br, J, P, S</b> 705-327-1964
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<b>Payford Steel Inc.</b> Thunder Bay, ON www.payfordsteel.com	<b>B, Br, J, P, S</b> 807-577-8455
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<b>Show Canada</b> Laval, QC www.show-canada.com	<b>B, Br, J, P, S</b> 450-664-5155
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<b>Times Iron Works Inc.</b> Pickering, ON www.timesironworks.ca	<b>B, Br, J, P, S</b> 905-831-5111
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<b>ERECTOR</b>	
<b>Arcweld Industries Inc.</b> Winnipeg, MB www.arcweld.ca	<b>B, Br, J, P, S</b> 204-661-3867

<b>D.R. Steel Inc.</b> Edmonton, AB	<b>B, J</b> 780-699-9872
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<b>E.S. Fox Limited</b> Niagara Falls, ON www.esfox.com	<b>B, Br, J, P, S</b> 905-354-3700
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<b>EMG Structures d'Acier Inc.</b> St-Isidore de Laprairie, QC	<b>B</b> 450-454-6285
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<b>K C Welding Ltd.</b> Angus, ON	<b>B</b> 705-424-1956
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<b>KWH Constructors Ltd.</b> Burnaby, BC	<b>B, Br</b> 604-629-4897
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<b>M-C Steel Services Inc.</b> Bowmanville, ON www.mccormickcampbell.com	<b>B, Br, J, P, S</b> 905-623-0388
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<b>Montage d'acier International - division de Gastier M.P. Inc.</b> Anjou, QC	<b>Br, P</b> 514-328-6232
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<b>Montage St-Laurent</b> Boisbriand, QC www.montacier.com	<b>B, Br</b> 450-430-2212
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<b>Niagara Rigging &amp; Erecting Company Ltd.</b> Thorold, ON	<b>B, Br, J, S</b> 289-296-4594
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<b>St. Peter Steel Inc.</b> Woodbridge, ON	<b>B</b> 905-851-2817
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<b>Stampa Steel Erectors Ltd.</b> Vaughan, ON www.stampasteel.com	<b>B, Br</b> 905-760-9988
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<b>Superior Steel Erectors Ltd.</b> Sherwood Park, AB www.superiorsteel.ca	<b>B</b> 780-922-0520
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#### SUPPLIER

<b>Aarc-West Industrial Coatings Inc.</b> Surrey, BC www.awcoatings.com	<b>B, Br, J, P, S</b> 604-535-9963
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<b>Acier Altitube Inc. / Altitube Steel Inc.</b> Chomedey, Laval, QC www.altitube.com	<b>B, Br, J, P, S</b> 514-637-5050
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<b>Acier Picard inc.</b> St-Romuald, QC www.acierpicard.com	<b>B, Br, J, P, S</b> 418-834-8300
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<b>Advanced Bending Technologies Inc.</b> Langley, BC www.bending.net	<b>B, Br, J, P, S</b> 604-856-6220
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<b>Aggressive Tube Bending Inc.</b> Surrey, BC	<b>B, Br, J, P, S</b> 604-662-4872
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<b>Agway Metals Inc.</b> Brampton, ON www.agwaymetals.com	<b>B, Br, J, P, S</b> 905-799-7535
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<b>Akhurst Machinery</b> Edmonton, AB www.akhurst.com	<b>B, Br, J, P, S</b> 780-435-3936
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<b>AkzoNobel Coatings Limited</b> Lively, ON www.international-pc.com	<b>B, Br, J, P, S</b> 705-688-8450
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<b>All Fabrication Machinery Ltd.</b> Leduc, AB www.allfabmachinery.com	<b>B, Br, J, P, S</b> 780-980-9661
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<b>Amcan Jumax Inc.</b> St-Hubert, QC www.amcanjumax.com	<b>B, Br, J, P, S</b> 450-445-8888
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<b>Amico Canada Inc.</b> Langley, BC www.amicoglobal.com	<b>B, Br, J, P, S</b> 604-607-1475
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<b>Applied Bolting Technology</b> Bellows Falls, VT www.appliedbolting.com	<b>B, Br, J, P, S</b> 802-460-3100
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<b>AXIS Inspection Group Ltd</b> Winnipeg, MB www.axisinspection.com	<b>B, Br, J, P, S</b> 204-488-6790
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<b>Behlen Industries COM-BLD Division</b> Edmonton, AB www.behlen.ca	<b>B, Br, J, P, S</b> 780-237-8497
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<b>Blastech Corporation</b> Brantford, ON www.blastech.com	<b>B, Br, J, P, S</b> 519-756-8222
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<b>Borden Metal Products (Canada) Limited</b> Beeton, ON www.bordengratings.com	<b>B, Br, J, P, S</b> 905-729-2229
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<b>Brunswick Steel</b> Winnipeg, MB www.brunswicksteel.com	<b>B, Br, J, P, S</b> 204-224-1472
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<b>Burlington Automation</b> Hamilton, ON www.pythonx.com	<b>B, Br, J, P, S</b> 905-689-7771
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<b>CANSTUD Welding And Supply Inc.</b> Delta, BC www.canstud.com	<b>B, Br, J, P, S</b> 604-952-4066
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<b>Cast Connex Corporation</b> Toronto, ON www.castconnex.com	<b>B, Br, J, P, S</b> 416-806-3521
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<b>Cloverdale Paint Inc.</b> Edmonton, AB www.cloverdalepaint.com	<b>B, Br, J, P, S</b> 780-453-5700
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<b>Cloverdale Paint Inc.</b> Surrey, BC	<b>B, Br, J, P, S</b> 604-329-0703
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<b>Commercial Sandblasting &amp; Painting Ltd.</b> Saskatoon, SK Sandblasting and protective coating applications	<b>B, Br, J, P, S</b> 306-931-2820
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<b>Construction Fasteners &amp; Tools Ltd.</b> Saskatoon, SK www.cf-t.com	<b>B, Br, J, P, S</b> 306-668-8880
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<b>Corrcoat Services Inc., Sandblasters and Coaters</b> Surrey, BC www.corrcoat.ca	<b>B, Br, J, P, S</b> 604-881-1268
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<b>Court Galvanizing Ltd.</b> Cambridge, ON www.courtgalvanizingltd.com	<b>B, Br, J, P, S</b> 519-624-5544
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<b>Cowan Insurance Group</b> Cambridge, ON www.cowangroup.ca	<b>B, Br, J, P, S</b> 519-650-6363
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<b>Daam Galvanizing Inc.</b> Edmonton, AB www.daamgalvanizing.com	<b>B, Br, J, P, S</b> 780-468-6868
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<b>Daam Galvanizing Ltd.</b> Saskatoon, SK www.galv.ca	<b>B, Br, J, P, S</b> 306-242-2202
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<b>Devoe Coatings</b> Edmonton, AB www.devoecoatings.com	<b>B, Br, J, P, S</b> 780-454-4900
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<b>DryTec Trans-Canada</b> Terrebonne, QC www.drytec.ca	<b>B, Br, J, P, S</b> 450-965-0200
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<b>EBCO Metal Finishing L.P.</b> Richmond, BC www.ebcmetalfinishing.com	<b>B, Br, J, P, S</b> 604-244-1500
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<b>Endura Manufacturing Co. Ltd.</b> Edmonton, AB www.endura.ca	<b>B, Br, J, P, S</b> 780-451-4242
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<b>Ficep Corporation</b> Forest Hill, MD www.ficepcorp.com	<b>B, Br, J, P, S</b> 410-588-5800
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<b>Fisher &amp; Ludlow, A Division of Harris Steel Limited</b> Edmonton, AB www.fisherludlow.com	<b>B, Br, J, P, S</b> 780-481-3941
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<b>Fisher &amp; Ludlow, division d'acier Harris Ltée</b> Pointe Aux Trembles, QC www.fisherludlow.com	<b>B, Br, J, P, S</b> 514-640-5085
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<b>Frank's Sandblasting &amp; Painting</b> Nisku, AB	<b>B, Br, J, P, S</b> 780-955-2633
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<b>GRAITEC Inc.</b> Longueuil, QC www.graitec.com	<b>B, Br, J, P, S</b> 450-674-0657
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<b>Harsco Industrial IKG (Grating Division)</b> Newmarket, ON www.harsco.com	<b>B, Br, J, P, S</b> 905-953-7779
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<b>HDIM Protective Coatings</b> Edmonton, AB www.hdimpc.ca	<b>B, Br, J, P, S</b> 780-482-4346
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<b>Infasco</b> Marieville, QC www.infasco.com	<b>B, Br, J, P, S</b> 450-658-8741
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<b>Kubes Steel Inc.</b> Stoney Creek, ON www.kubesteel.com	<b>B, Br, J, P, S</b> 905-643-1229
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<b>La Compagnie Américaine de Fer et Métaux Inc. / American Iron &amp; Metal Inc.</b> East Montréal, QC www.scrapmetal.net	<b>B, Br, J, P, S</b> 514-494-2000
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<b>La Corporation Corbec</b> Lachine, QC www.corbecgalv.com	<b>B, Br, J, P, S</b> 514-364-4000
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<b>Les Industries Méta-For inc.</b> Terrebonne, QC www.meta-for.ca	<b>B, Br, J, P, S</b> 450-477-6322
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<b>Les Soudures Giromac enr.</b> Papineauville, QC	<b>B, Br, J, P, S</b> 819-427-5377
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<b>Lincoln Electric Company of Canada LP</b> Toronto, ON www.lincolnelectric.com	<b>B, Br, J, P, S</b> 416-421-2600
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<b>Magnus Inc.</b> Ste-Thérèse, QC www.magnus-mr.ca	<b>B, Br, J, P, S</b> 866-435-6366
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<b>McCann Equipment Ltd.</b> Mississauga, ON www.torquetools.com	<b>B, Br, J, P, S</b> 905-542-1333
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<b>Metal Fabricators and Welding Ltd.</b> Edmonton, AB www.metalfab.ca	<b>B, Br, J, P, S</b> 780-455-2186
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<b>Midway Wheelabrating Ltd.</b> Abbotsford, BC www.midwaywheelabrating.com	<b>B, Br, J, P, S</b> 604-855-7650
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<b>Moore Brothers Transport Ltd.</b> Mississauga, ON www.moorebrothers.ca	<b>B, Br, J, P, S</b> 905-840-9872
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<b>Nucap Industries Inc.</b> Toronto, ON www.gripmetal.com	<b>B, Br, J, P, S</b> 416-494-1444
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<b>Pacific Bolt Manufacturing Ltd.</b> New Westminster, BC www.pacbolt.com	<b>B, Br, J, P, S</b> 604-524-2658
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<b>PARK DEROCHIE</b> Edmonton, AB www.parkderochie.com	<b>B, Br, J, P, S</b> 780-478-4688
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<b>Peddinghaus Corporation</b> Bradley, IL www.peddinghaus.com	<b>B, Br, J, P, S</b> 815-937-3800
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<b>Peikko Canada Inc.</b> Quebec, QC	<b>B, Br, J, P, S</b> 418-263-2023
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<b>Peinture Internationale (une division de Akzo Nobel Peintures Ltée) / International Paints (A Division of Akzo Nobel Coating Ltd.)</b> Dorval, QC www.international-coatings.com	<b>B, Br, J, P, S</b> 514-631-8686
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<b>Picco Canada Inc.</b> Quebec, QC	<b>B, Br, J, P, S</b> 418-263-2023
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<b>PPG Architectural Coatings Inc.</b> Concord, ON www.dulux.ca	<b>B, Br, J, P, S</b> 905-669-1020
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<b>Pure Metal Galvanizing</b> Mississauga, ON www.puremetal.com	<
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DTI Structural Engineers Inc., Toronto, ON	519-979-3858	Les Services exp inc. Drummondville, QC	819-478-8191	Steenhof Building Services Group Orillia, ON	705-325-5400	George Casoli, Richmond, BC	604-273-7737	Ralph W. Hildenbrandt, Calgary, AB	403-245-5501	Mohamed Matar, Winnipeg, MB	204-477-2512	Chris Sargent, Grand Falls - Windsor, NL	709-489-9150	Paul Zinn, Delta, BC	604-940-4050
ENGCOMP, Saskatoon, SK	306-978-7730	McElhanney Consulting Services Ltd. Vancouver, BC	604-683-8521	Stephenson Engineering Ltd. Toronto, ON	416-635-9970	Edward H. Chapman, Brantford, ON	226-387-3610	Gary L. Hodgson, Niagara Falls, ON	905-357-6406	Rein A. Matisen, Calgary, AB	403-338-5804	Joseph M. Sarkor, Kelowna, BC	250-868-1413	<b>TECHNICAL - INDIVIDUAL</b>	
Engineering Link Inc., Toronto, ON	416-599-5465	MMM Group Limited, Thornhill, ON	905-882-4211	Teletek Structures Inc., St. Jacobs, ON	519-206-2060	James Chapman, Edmonton, AB	780-438-9000	David Howard, Burlington, ON	905-632-9040	Jean Stéphane Mbega North Vancouver, BC	604-986-0663	Ken Savage, Vancouver, BC	604-637-2275	Frank Bastone, Woodbridge, ON	905-856-2189
Entuitive, Toronto, ON	416-477-5832	Morrison Hershfield Ltd. North York, ON	416-499-3110	Tetra Tech inc., Québec, QC	418-871-8151	François Charest, Repentigny, QC	450-581-8070	Roman Hudon, Winnipeg, ON	204-255-7251	Brian McClure, Nanaimo, BC	250-713-9875	Ron Schmidt, Saskatoon, SK	306-668-0293	Miguel Clement, St. Pasca, ON	613-297-9983
Entuitive Corporation, Calgary, AB	403-879-1270	MPa GROUPE CONSEIL INC. Carignan, QC	450-447-4537	The Walter Fedy Partnership Kitchener, ON	519-576-2150	M.P. (Michel) Comeau, Halifax, NS	902-429-5454	Alfredo M. Ilacad, Portland, OR	503-954-3230	Mark McFadden, Chatham, ON	514-351-9612	Jaydip Shah, Saskatoon, SK	306-934-2442	Paul Good, Vancouver, BC	604-255-0992
exp, Markham, ON	905-695-3217	N.A. Engineering Associates Inc. Stratford, ON	519-273-3205	UMA Engineering Ltd. Mississauga, ON	514-940-6862	Marc-André Comeau Salaberry-de-Valleyfield, QC	450-371-8585	Don R. Ireland, Brampton, ON	905-846-9514	Glenn J. McMillan, London, ON	519-453-1480	Michael D Simpson, Burlington, ON	905-331-7156	Scott Gullacher, Regina, SK	306-565-0411
exp, Hamilton, ON	905-525-6069	Norda Stelo Inc., Quebec, QC	418-654-9600	Valron Structural Engineers - Steel Detailers, Moncton, NB	506-856-9601	Louis Crépeau, Montréal, QC	514-931-1080	Yousif Jarjees, Mississauga, ON	416-662-5300	Neil McMillan, Bowmanville, ON	905 697 9698	John A. Singleton, St. John's, NL	709-739-5500	Martin Kowalyk, Moose Jaw, SK	306-692-9594
Experts-Conseils CEP Inc., Laval, QC	418-622-4480	ONEC Engineering Inc., Edmonton, AB	780-440-0400	Weiler Smith Bowers, Burnaby, BC	604-294-3753	Jean-Pierre Dandois, Magog, QC	514-592-1164	Brian Johnson, Kanata, ON	613-591-1533	Shane A. McShane, Peterborough, ON	705-749-0003	Stig Skarborn, Fredericton, NB	506-452-1804	Patrick S. McManus, Cheyenne, WY	307-637-8422
Fluor Canada Ltd., Calgary, AB	403-537-4000	Parsons Inc., Ottawa, ON	905-943-0500	Wolfrom Engineering Ltd. Winnipeg, MB	204-452-0041	Dominic D'Aquila, Montreal, QC	514-747-0550	Jacob Kachuba, Mississauga, ON	416-254-2829	Arvid Meland, Calgary, AB	403-716-8158	Paul Slater, Kitchener, ON	519-743-6500	Luciano Patricelli, Markham, ON	905-604-5522
GCM Consultants , Anjou, QC	514-351-8350	Pharaoh Engineering Ltd. Medicine Hat, AB	403-526-6761	Wood Group PSN, St. John's, NL	709-778-4000	Ameen DeRaj, Winnipeg, MB	204-800-2072	Ely E. Kazakoff, Kelowna, BC	250-763-2306	Konstantinos Memigas, North Bay, ON	905-704-2345	Lauchlin Smith, Edmonton, AB	780-409-3146	Angelo M. Ricciuto, Concord, ON	905-669-6303
Genifab Consultants Inc., Quebec, QC	418-622-1676	Pier Structural Engineering Corp. Waterloo, ON	519-885-3806	WSP Canada Inc., Brampton, ON	905-799-8220	Harold Dibben, Trenton, ON	613-392-9287	Bhupender S. Khoral, Ottawa, ON	613-739-7482	Andrew W. Metten, Vancouver, BC	604-688-9861	Rory A. Smith, Calgary, AB	403-806-1558	Ronald W. Rollins, Burnaby, BC	604-453-4057
Gerits Engineering, Barrie, ON	705-737-3303	Pow Technologies, Div. of PPA Engineering Technologies Inc., Ingersoll, ON	519-425-5000	WSP Canada Inc., Markham, ON	905-475-7270	Jean-Marc Dugre, Sherbrooke, QC	819-791-8805	Ian M. Kier, Grande Prairie, AB	780-532-6035	Jason Mewis, Saskatoon, SK	306-978-7730	Terrence D. Smith, Toronto, ON	416-798-8770	Jeffrey E. Snook, St John's, NL	709-730-7325
Glotman Simpson Consulting Engineers Vancouver, BC	604-734-8822	POYRY (Montreal) Inc., Montreal, QC	514-341-3221	WSP Canada Inc., Montréal, QC	514-340-0046	Daniel Dumont, Gatineau, QC	819-360-5229	Franz Knoll, Montréal, QC	514-878-3021	Yannick Michaud, Pôhénégamook, QC	418-859-2927	Eric Sobel, Lakewood, CO	303-431-6100	Asif Sultan, Mississauga, ON	905-848-4047
Golder Associates Ltd., Mississauga, ON	905-567-4444	Protostatix Engineering Consultants Edmonton, AB	780-423-5855	WSP Canada Inc., Mont-Tremblant, QC	819-425-3483	Arno Dyc, Calgary, AB	403-255-6040	Antoni Kowalczeuski, Edmonton, AB	780-451-9214	Mark Milner, Richmond Hill , ON	905-737-6881	Ralph E. Southward, Hamilton, ON	905-639-7455	Meynardo Vendiola, Edmonton, AB	780-444-7116
Groupe-conseil Structura international Montréal, QC	514-360-3660	Qualimet Inc, Edmonton, AB	780-469-5870	WSP Canada Inc., Saint John, NB	506-674-1810	Elie El-Chakieh, Laval, QC	514-892-2717	Keshava Arun Kumar, Calgary, AB	403-766-6402	Bahram Mirpourian, Thornhill, ON	416-676-1441	Stuart Veysay, Fredericton, NB	506-452-7000	Kenneth Williams, Edmonton, AB	780-488-6969
Haddad, Morgan and Associates Ltd. Windsor, ON	519-973-1177	R.J. Burnside & Associates Limited Collingwood, ON	705-446-0515	WSP Canada Inc., Sherwood Park, AB	780-410-6814	Paul B. Elliott, Calgary, AB	403-271-6466	Mankit Kwun, Richmond, BC	604-277-2254	Namvar Moazzami, Calgary, AB	403-400-5345	Steven Stelzer, Cote-Saint- Luc, QC	514-482-4984	Helene Theriault, Moncton, NB	506-875-0941
Halsall Associates, Toronto, ON	416-487-5256	Read Jones Christoffersen Ltd. Calgary, AB	403-283-5073	WSP Canada Inc., Victoria, BC	250-384-5510	Timothy Emmons, Inverary, ON	613-353-6865	Pierre Lanoue, Pointe-Claire, QC	450-973-5405	David T Molloy, Burlington, ON	905-332-1404	Bram Toomath, Vaughan, ON	905-580-4400	Darren B. Towells, Winnipeg, MB	204-227-1151
Harbourside Engineering Consultants Darmouth, NS	902-405-4696	Read Jones Christoffersen Ltd. Toronto, ON	416-977-5335	Yolles, A CH2M HILL Company Toronto, ON	416-363-8123	Daniel A. Estabrooks, Saint John, NB	506-674-1810	R. Mark Lasby, Calgary, AB	403-537-5162	G. Abbas Nanji, Richmond Hill, ON	416-757-3611	Mike L. Trader, Hamilton, ON	905-381-3231	Serge Y. Tremblay St-Augustin de Desmaures, QC	418-878-3218
Hastings & Aziz Limited Consulting Engineers London, ON	519-439-0161	Read Jones Christoffersen Ltd. Vancouver, BC	604-738-0048	PROFESSIONAL - INDIVIDUAL		Chris Evans, Udora, ON	705-228-8412	Tony Latiza, Winnipeg, MB	204-221-2149	Rémi Octeau, Saguenay, QC	418-545-1150	Serge Y. Tremblay St-Augustin de Desmaures, QC	418-878-3218	Normand Trudel, Pierrefonds, QC	514-971-5484
Hatch, Mississauga, ON	902-421-1065	Read Jones Christoffersen Ltd. Victoria, BC	250-386-7794	Vitomir, M Acimovic, Montréal, QC	514-940-9511	Cameron R. Franchuk, Edmonton, AB	780-429-1580	Barry F. Laviolette, Edmonton, AB	905-901-8535	Yannick Pageau, Québec, QC	418-914-9299	J.H.R. Vierhuis, Willowdale, ON	416-497-8600	Daniel E. Turner, Montréal, QC	514-344-1865
Hatch, Saskatoon, SK	306-657-7500	Read Jones Christoffersen Ltd. Edmonton, AB	780-452-2325	Mehrdad Ahmadi, Langley, BC	604-888-1968	Timothy P. Fraser, Bellingham, WA	360-937-0448	René Laviolette, Lévis, QC	418-834-6172	Neil A. Paolini, Etobicoke, ON	416-249-4651	Romano Viglione, Calgary, AB	403-804-0696	David Vadoz, Langley, BC	604-533-7382
Herold Engineering Limited Nanaimo, BC	250-751-8558	Rempel Engineering & Management Ltd. Saskatoon, SK	306-343-8737	William J. Alcock, North Vancouver, BC	604-986-0663	Alex Fulop, Vaughan, ON	905-760-7663	Nazmi Lawen, Charlottetown, PE	902-368-2300	Louis Paradis, Lac-Beauport, QC	418-572-8829	Roger Vino, Surrey, BC	604-576-7369	Deborah VanSlyke, Fredericton, NB	506-452-8480
IBI Group, Etobicoke, ON	416-679-1930	Robb Kullman Engineering Ltd. Saskatoon, SK	306-477-0655	Dean Anderson, St. Albert, AB	780-803-9926	Robert Gale, North Vancouver, BC	604-986-1222	Graham Lawrence, Saint John, NB	506-634-8259	Francis Paré, Trois-Rivières, QC	819-373-1145	Dave R.M. Vrkijan, Calgary, AB	403-241-2578	David Vadoz, Langley, BC	604-533-7382
IRC McCavour Engineering Group Inc. Mississauga, ON	905-607-7244	Roy Consultants, Bathurst, NB	506-546-4484	Christian Audet, Sherbrooke, QC	819-434-1832	Michael Gallo, Woodbridge, ON	416-830-1910	Hugo G. Le Bihan, Kelowna, BC	250-448-4830	Serge Parent, Sherbrooke, QC	819-640-0310	Brian Waddell, Cambridge, ON	519-267-6789	Deborah VanSlyke, Fredericton, NB	506-452-8480
Isherwood Associates, Mississauga, ON	905-820-3480	Safe Roads Engineering, Gormley, ON	905-727-4198	Dwain A. Babiak, Calgary, AB	403-255-6060	Daniel Gauthier, Lanoraie, QC	450-887-2095	Marc LeBlanc, Dieppe, NB	506-382-5550	Sinisa Pavlovic, Richmond, BC	604-270-8048	Michael Picco, Concord , ON	905-760-9688	Vassily Verganelakis, Montreal, QC	514-342-3430
Jacobs Canada Inc. , Edmonton, AB	780-732-7837	Schorn Consultants Ltd., Waterloo, ON	519-884-4840	Doug Bach, Truro, NS	902-843-4180	Bernard Gérin-Lajoie, Outremont, QC	514-279-4821	Paul-Maurice LeBlanc Drummondville, QC	819-395-2752	Erick Pepin, St-Georges, QC	418-228-2223	Gérard Pilon, Valleyfield, QC	450-373-9999	J.H.R. Vierhuis, Willowdale, ON	416-497-8600
JADE Engineers Inc., Tillsonburg, ON	519-842-9500	SDK et Associés, Montréal, QC	514-938-5995	Ray T. Bailey, St. John's, NL	709-579-4255	Ricardo Giannuzzi, LaSalle, QC	514-789-7400	Steve Lécuyer, Brossard, QC	514-333-5151	David Prud'Homme, Dorval, QC	514-833-4715	R. Paul Ransom, Burlington, ON	905-639-9628	Romano Viglione, Calgary, AB	403-804-0696
JML Engineering, Thunder Bay, ON	807-345-1131	Siefken Engineering Ltd. New Westminster, BC	604-525-4122	Stephen Barbour, St. John's, NL	709-753-2260	Jean-Paul Giffard Saint-Jean-Chrysostome, QC	418-839-7937	Thomas LeCuyer, Brossard, QC	514-333-5151	R. Paul Ransom, Burlington, ON	905-639-9628	Dave R.M. Vrkijan, Calgary, AB	403-241-2578	Roger Vino, Surrey, BC	604-576-7369
Klohn Crippen Berger Ltd. Vancouver, BC	604-251-8429	SKC Engineering Ltd., Surrey, BC	604-882-1889	Michel Baril, Sherbrooke, QC	819-821-2395	Claude Lelièvre, Québec, QC	418-861-8737	Thomas Leung, Ottawa, ON	613-258-2544	Dan S. Rapinda, Winnipeg, MB	204-488-6674	Brian Waddell, Cambridge, ON	519-267-6789	Dave R.M. Vrkijan, Calgary, AB	403-241-2578
Konsolidated Structural, Toronto, ON	416-762-3224	SNC Lavalin Inc., Montréal, QC	514-393-1000	Dominique Bauer, Montréal, QC	514-396-9844	Salvatore Leo, Kirkland, QC	514-334-1234	William C.K. Leung, Woodbridge, ON	905-851-9535	Hamidreza Razaghi, Edmonton, AB	780-577-5662	Michael Walsh, LaSalle, QC	514-364-0406	Daniela Xavier, Toronto, ON	647-774-3531
Kova Engineering (Saskatchewan) Ltd. Saskatoon, SK	306-652-9229	SNC Lavalin Power Ontario Inc. Toronto, ON	416-252-5311	Max Bischof, North Vancouver, BC	604-985-6744	Thomas Leung, Ottawa, ON	613-258-2544	Haijun Li, Markham, ON	905-479-9525	Mehrak Razzvi, North Vancouver, BC	604-988-7131	Jonathan Young, St. Catharines, ON	905-684-1111	Chell K. Yee, Edmonton, AB	780-488-5636
Krahn Engineering Ltd., Vancouver, BC	604-853-8831	Stantec Consulting, Winnipeg, MB	204-489-5900	Andrew Boettcher, Vancouver, BC	604-568-9373	Robert Girard, Chicoutimi, QC	418-549-9687	Chet Liu, Chatham, ON	514-351-9612	Aaron Rideout, St.John's, NL	709-726-3468	Xiaoli Yuan, Waterloo, ON	226-978-1297	Chell K. Yee, Edmonton, AB	780-488-5636
Leekor Engineering Inc., Ottawa, ON	613-234-0886	Stantec Consulting Ltd. Mississauga, ON	905-858-4424	Gordon J. Boneschanker Fredericton, NB	506-452-1441	Eric Gilbert, Sherbrooke, QC	819-563-8960	Clint S. Low, Vancouver, BC	604-688-9861	Danny Rosanova, Thornhill, ON	905-882-1100	Hossam Saleh, Toronto, ON	647-932-2460	Jonathan Young, St. Catharines, ON	905-684-1111
Les Conseillers BCA Consultants Inc. Montreal, QC	514-341-0118			Eric Boucher, Québec, QC	418-871-8103	Donald Gregory, Hamilton, ON	905-218-5482	Ian Malcolm, Kemptville, ON	613-860-0923	John Rosenquist, Lake Zurich, IL	847-540-9286				
				Gordon D. Bowman, Gloucester, ON	613-742-7130	Movses R. Gulesserian, North York, ON	416-219-6651	James R. Malo, Thunder Bay, ON	807-345-5582	James Rudy, Beaconsfield, QC	514-426-1638				
				Jozef Budziak, Toronto, ON	416-740-5671	Susan Guravich, Fredericton, NB	506-452-1804	Brian Mashford, North Bay, ON	705-494-8255						
				Julie Bui, London, ON	519-657-4703	John Stuart Hall, Ottawa, ON	613-789-0261	Alfredo Mastrodicasa, Woodbridge, ON	905-856-2530						
				Iain J. Cameron, Victoria, BC	250-999-9350	Joel Hampson, Vancouver, BC	778-386-2232								
						Matthew Hartog, Toronto, ON	416-368-1700								
						Roland A. Hase, Scarborough, ON	416-291-3723								



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3760 14th Avenue, Suite 200, Markham, Ontario L3R 3T7

**Phone** 905-604-3231 | **Email** [info@cisc-icca.ca](mailto:info@cisc-icca.ca) | **Website** [www.cisc-icca.ca](http://www.cisc-icca.ca)

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