

Canadian Society for  
Civil Engineering



Société canadienne  
de génie civil

# 2018 ANNUAL REPORT



MAJOR PARTNERS | PARTENAIRES MAJEURS



**UNIVERSITY OF WATERLOO**  
FACULTY OF ENGINEERING  
Department of Civil &  
Environmental Engineering

PARTNERS | PARTENAIRES



AFFILIATES | AFFILIÉS



Cement Association of Canada

Association Canadienne du Ciment



CSCCE SECTIONS

**Newfoundland**

Contact: Dr. Helen Zhang  
T. 709-864-3301  
Email: bzhang@mun.ca

**Sherbrooke**

Contact: Jean-Gabriel Lebel, MSCSGC  
T. 514-502-7368  
Courriel: jg.lebel@usherbrooke.ca

**Durham/Northumberland**

Contact: Robbie Larocque  
T. 905-576-8500  
Email: robbie.larocque@dgbiddle.com

**Calgary**

Contact: Hadi Aghahassani, MCSCE  
T. 587-475-4872  
Email: cscecalgarychapter@gmail.com

**Nova Scotia**

Contact: Haibo Niu, MCSCE  
T. 902-222-0797  
Email: haibo.niu@dal.ca

**Québec**

Contact: Kim Lajoie, MSCGC  
T. 418-650-7193  
Courriel: scgc-sectionquebec@outlook.com

**London & District**

Contact: Julian N. Novick, MCSCE  
T. 519-850-0020 x104  
Email: julian@wastell.ca

**Edmonton**

Contact: Hazel Battad  
T. 780-999-6677  
Email: chair@csceedmonton.ca

**East New Brunswick and P.E.I. (Moncton)**

Contact: Jérémie Aubé, MCSCE  
T. 506-777-0619  
Email: jeremie.aube@wsp.com

**Capital Section (Ottawa-Gatineau)**

Contact: Peter Calcetas  
T. 416-802-6216  
Email: peter.calcetas@gmail.com

**Manitoba**

Contact: Vaibhav Banthia, Regional VP  
T. 204-275-5139  
Email: vbanthia@gmail.com

**Vancouver**

Contact: Stephanie Dalo  
T. 226-235-0278  
Email: Stephanie.Dalo@aecom.com

**West New Brunswick**

Contact: Robbie Praeg  
T. 506-259-0431  
Email: robert.praeg@measurand.com

**Toronto**

Contact: Alexander Andrenkov, MCSCE  
T. 905-320-8912  
Email: TorontoCSCE@gmail.com

**South Saskatchewan**

Contact: Harold Retzlaff, MCSCE  
T. 306-787-4758  
Email: harold.retzlaff@gov.sk.ca

**Vancouver Island**

Contact: Jonathan Reiter, MCSCE  
T. 250-590-4133  
Email: jreiter@seng.ca

**Montréal**

Contact: Jennifer Tran  
T. 514-878-3021  
Email: jennifer.tran.chau@gmail.com

**Hamilton/Niagara**

Contact: Peter Calcetas  
T. 416-802-6216  
Email: peter.calcetas@gmail.com

**Saskatoon**

Contact: Roanne Kelln, AMCSCE  
T. 306-665-0252  
Email: rkelln@bbk-eng.ca

**CSCCE Hong Kong Branch**

Contact: Kelvin Cheung, MCSCE  
T. 011-852-9225-0304  
Email: kelvin\_cheung@wanchung.com

**Northwestern Ontario**

Contact: Gerry Buckrell, MCSCE  
T. 807-625-8705/807-623-3449  
Email: gerald.buckrell@hatchmott.com

# Table of Contents

- 2 Minutes of 2018 Annual General Meeting**
- 3 Report of the President**
- 5 Report of the Senior Vice President**  
Senior Vice President, International,  
Young Professionals, Student Affairs,  
Regions: Western, Prairies, Ontario,  
Quebec, Atlantic
- 15 Report of the Honorary Treasurer**
- 16 Report of the CSCE Foundation**
- 17 Report of the Vice President - Administration  
Coordinating Committee**  
Communications, National Conferences,  
National History, Honours and Fellowships,  
Member Services
- 22 Report of the Vice President, Program  
Coordinating Committee – Technical Divisions  
and Committees**  
Structures, Hydrotechnical, Engineering  
Mechanics and Materials, Construction,  
Environment
- 25 Report of the Vice President,  
Program Coordinating Committee  
Technical Programs**  
Asset Management, Technical Publications,  
The Canadian Journal for Civil Engineering (CJCE),  
National Lecture Tours
- 27 Report of the 2019-2020 Nominating Committee**
- 28 Membership Statistics**
- 29 Auditors' Report and Financial Statements**

## **CSCE National Office**

300 rue St-Sacrement, Suite 114  
Montréal, Québec H2Y 1X4  
Tel: (514) 933-2634 Fax: (514) 933-3504  
[www.csce.ca](http://www.csce.ca)

# Annual General Meeting

Friday June 15, 2018 1:15 p.m. – 2:00 p.m.

## Ballroom A & B, Fredericton Convention Centre, NB

### 1. Call to Order (and quorum determination)

The 2018 Annual General Meeting (AGM) of the Canadian Society for Civil Engineering was called to order by President Susan at 1:09 p.m. It was determined that quorum was present required per Section 13.1 of the by-laws and thus the meeting was duly constituted.

### 2. Adoption of the Agenda

**MOTION: that the agenda of the Annual General Meeting as presented be adopted;**

Proposed: J. Kells

2nd: J. Gilliland

Adopted: Unanimously

Approval of the Minutes of the 2017 AGM June 3, 2017 Vancouver (as provided in the Annual Report)

**Motion: that the Minutes of the 2016 AGM June 4, 2016 London as provided in the Annual Report be adopted;**

Proposed: W. Zwicker

2nd: R. Pickle

Adopted: Unanimously

### 3. President's Report

a. Identification of current Board of Directors and retiring Board members President Tighe thanked all retiring board members and acknowledged their time and dedication to CSCE.

a. Jim Gilliland – Immediate Past President

b. John Newhook – Vice President – Technical

c. Brian Burrell – Vice President – International

d. Adrian Munteanu – Vice President - Ontario

e. Catherine Mulligan – Board member at large – representing CGS  
And drew attention to the new members as listed in the annual report

b. Vision 2020 update – Strategic Initiatives Report Card  
Vision 2020 update – Strategic Initiatives Report Card – President Tighe gave her report the 3 strategic initiatives. Spoke to transparency and communications. Worked hard to provide support and longevity with regards to resources. Ensuring website and admin is in a working condition.

Working with youth. Making sure to add activities to and feedback to make all students grow with the CSCE. Making the envision available for the students. Thank you to Jeff Rankin..

Other initiatives included, the renewal campaign. The success of the campaign and the pin challenge. Also communicating better with our corporate sponsors.

Alan Perks was also thanked for presenting the president's task force on accessibility.

Gave her report on the HUB with regards to the importance on members and corporate members being able to be in contact with each other with regards to the wide span of topics interested to our members, standardization for the website and our admin site to be all one. Loyalty program is being looked at.

We will have professional profiles for the CSCE HUB similar to linked In.

She requested members to sign up with the HUB. hub.csce.ca

Closing thoughts, technical, fellowship and friendship. Requests members get involved. Recognizes N.O. and the executives for the hard work and thanks them for their great work.

Question from the house: K. Murzak. how many sections are active.  
Answer about 70%

### 4. Report of the Honourary Treasurer and motions to approve financial statements.

Glenn Hewus, president elect gave the report for Brad Smid who could not be in attendance. G. Hewus reported on the financial situation of the Society, as of the end of the fiscal year, December 31, 2017. Report attached.

**MOTION: Hewus proposed that the financial statements be accepted for the period ending December 2017.**

2nd: Cathly-Lynn Borbely

Adopted: Unanimous

### 5. Other motions

a. **Motion to adopt all reports, except financial statements and Nominations Committee reports.**

**MOTION: Peter Wright to appoint Baker Tilly Montréal auditors for 2017 fiscal year**

2nd: Jim Gilliland

Adopted: Unanimous

b. **Motion to appoint Baker Tilly Montréal auditors for 2018 fiscal year**

**MOTION: Nlsar Biswas motioned to ratify actions of Officers and Directors since the 2017 Annual General meeting.**

2nd: Gopal

Adopted: Unanimous

### 6. Report of the Nominations Committee and motion to accept the report:

Jim Gilliland gave his report on the Nominations committee shown in the annual report.

**MOTION: Jim Gilliland to accept the report of the Nominations Committee**

2nd: Glenn Hewus

Adopted: Unanimous

Question from the house is how long people can stay in any given term. Gilliland responded as stipulated in the by-laws.

### 7. Other business, if any

a. Update of National office re-organization.

### 8. Passing of the Gavel and presentation of President's Pin by Out-going President to In-coming President.

Out-going President Susan Tighe thanked the members for their support and welcomed President Elect Glenn Hewus as the 2017 CSCE President.

### 9. Adjournment

**MOTION: By Jim G. that the 2018 Annual General Meeting of the Canadian Society for Civil Engineering be adjourned.**

2nd: Lloyd W.

Adopted: Unanimous

The meeting adjourned at 1:55 pm

# Report of the President

Glenn Hewus, P.Eng., MBA, FCSCE, GSC

## Growing in Strength

As I look back over the past year, I am proud to see what we have accomplished together as a Society. We have made great strides towards strengthening our National Office Team, raised the bar with regards to introducing new tools, updating our brand and taken a closer look at innovation to enable us to serve you better.

Beyond these advancements, on behalf of CSCE, I am proud to remind our members that CSCE was invited this past fall to attend and give a keynote presentation about sustainable development at the ICE conference over in London, Eng. We also co-presented them with a historic plaque and signed a triennial statement with them and ASCE to show our dedication on these sustainability efforts. We were, regretfully, among the few Canadians in attendance and will be sure to make it better known that Canada needs to be more present at these types of events - not only to benefit from the mass of expertise that is shared, but to show what we must contribute to these critical issues.

In late November I attended the GeoMEast 2018 International Congress and Exhibition in Cairo Egypt. CSCE delivered a keynote presentation on Canadian Infrastructure and its sustainability, as well as discussing the use of the “Envision” framework to address the challenges of sustainable development. I also took the opportunity to meet students at both the American and German Universities in Cairo, many of whom inquired about our annual conference and CSCE membership. We are encouraged by their enthusiasm to get involved as it will help provide them access to the advantages of being CSCE members, but will also help CSCE reach new lengths.

We also held a very productive board meeting on November 4th in Ontario with many outcomes that we look forward to sharing with our members. With some recent changes to the structure of the National Office, board members are feeling confident that CSCE is more determined than ever to be truly engaged with members and to find new ways to show them that they are the voice of CSCE.

Together we will deliver on our strategic directions and find ways to improve communications around everything that we do. We are excited to work with our regions and sections to unite our voice and make it clear that CSCE’s strength comes from the contribution of all of our members. We are aiming to clarify for all of our members, both individual and at the corporate level, the mutual benefit of their membership. We appreciate their contribution, and will make it more clear what benefits and opportunities we can provide in return.

As our current strategic directions are coming close to expiring, we are proud to share some of the great success we anticipated for 2019 that stem from their inspiration. First off, the CSCE Annual

Conference this year is focused around Growing with Youth, a subject that is very important to CSCE. We understand that the hard work and dedication of today’s Civil Engineering student and Young Professionals will shape the future of Engineering, and it’s important that we not only help guide them and set the example, but provide them the platforms they need to share their ideas, successes and vision. With this, it was no surprise that this theme was only one away from the top number of abstracted every collected in the history of CSCE conferences.

Moreover, the enthusiasm around the CSCE Student Competitions is not only growing locally, but the Chairs of the Committees and expanding their efforts to international schools. We fully encourage this growth as the combination of sharing ideas and a little bit of competition have been known to spark creativity, innovation and some of the best creations.

The President’s Task Force on Accessibility, spearheaded by CSCE Past President Alan Perks, was also busy this past fall and has been involved in a Via Rail consultation workshop, regarding the retrofit of existing railcars and the design of the new railcar fleet, recently announced by Via Rail. They have also been involved with advising ACCOR Fairmont Hotels on fully accessible hotel rooms across Canada.

Furthermore, the National History Committee has expanded their efforts to better preserve the archives, photos and plaques of all CSCE Historical sites. Archiving specialists and additional support have been engaged to help with the process. All of this will be accessible through the CSCE website in the fall of this year as complete over-halls are completed of the History website as well as csce.ca.

The Honours and Awards Committee has also expanded their reach this year to include awards at the regional level. These awards include Excellence in Innovation in Civil Engineering, Governmental Leadership in Sustainable Infrastructure and the Young Professional Engineer Award. Allowing for awards at the regional level will help to spread the word about the opportunity to be recognized by CSCE and we trust will inspire more applications.

We once again acknowledged National Engineering Month with the launch of a Corporate Campaign. Our dedicated Corporate Representative revamped our Corporate Membership offering and started a series of events that offer both corporate and individual members to meet and discover the benefits of CSCE memberships. We are listening to our members and working with them to give them opportunities through our network.

In May of this year we launched the HUB. In this first phase of launch we are introducing a library tool whereby members can upload and share articles, abstracts, papers, videos, seminar content

and more. This archive is accessible by all members. We encourage anyone who shares their content to write a post about it in the newsfeed. This will enable people to share, like and comment – spark conversations and inspire new ideas. We look forward to bringing you updates as this tool evolves.

As the time has come for me to pass the baton, I can say without a doubt that my time as president has been extremely rewarding but not without its challenges. The issues of sustainability, resiliency, innovation and managing assets are becoming an integral part of our infrastructure designs, construction and management but as yet have not been completely embraced by governments nor industry. I hope to get more involved in changing attitudes and acceptance in using the tools available and being developed to better benchmark infrastructure renewal as we confront environmental and climate change issues. I will continue to be an active member and be ready to offer my counsel when called upon by the next generation of leaders within our society.

In closing I wish to thank all those on the Board, the past president and especially our head office staff, including the AV and IT contractors for their time and commitment to the society.

Your new president, Michel Khouday, and president-elect, Catherine Mulligan, have had a significant influence on the advancements made in this past year and I have every confidence that they will keep the momentum going.

As always, “be seen, be heard, be relevant and be proud” of our society.

**Glenn W. Hewus, P.Eng., MBA, FCSCE, GSC**  
CSCE President 2018-2019

# Report of the Senior Vice President

**Catherine Mulligan**, Ph.D., Eng., FCSCE, FEIC

The report of the VP International includes the extensive activities of the VP and those of the the International Affairs Committee and the Hong Kong Branch that promote international partnership and membership. We are pleased to see the continuing activity on this front despite the losses of two very important members, Todd Chan and Kirk Thomson. Nevertheless they are missed very much.

The mandates of the Young Professionals and the Student Affairs Committees committees' directly support the CSCE's Strategic Direction 2, which is dedicated to growing with youth. The activities and the representation of the Young Professional Committee are increasing. The young professional articles in Canadian Civil Engineer have been conceived to bring attention to important and relevant topics pertaining to young professionals. The Student Affairs committee continued to strengthen programs and increase opportunities to support students. The Committee continued to provide Student Chapters with resources and support to help them develop early professional consciousness and instil in them a sense of belonging to the Society. The various competitions are an important ingredient in student development.

The six (6) regional vice-presidents have been very active and dynamic in terms of communication, technical visits, conferences and events during the past 12 months. They provide feedback and help as much as possible to their respective sections and chapters.

Listening, communication and understanding the different needs and expectations of the members is the main key for the growth in membership of our Society. A lot of best practices were shared across the Region and some ideas were discussed to grow our visibility in the different platforms of social media.

Face to face RCC meetings were organized along with the board meetings in the course of the year. Different action plans and types of events were organized in accordance with the CSCE three strategic directions. The RCC focuses also on the operation of the Regions and Sections and how challenges and successes experienced in each Region and Section can be shared. This resulted in the development of best

practices document. The Regional VP's have also addressed a number of issues of national common interest. One of these issues is related to the support provided by Sections to organizing committees of technical program including conferences, workshops and short courses held in their geographic areas.

Also it is very evident from the reports from each of the Regional VP's that there is a significant level of activity that takes place at every level (lunch symposia, career fairs, technical visit, networking events, conferences, Lecture Tour, etc.), activities such as the competitions, curling, wine and cheeses with the student chapters of the society through the many Sections that operate within each Region. The members of our Society were very busy in the last 12 months with all events that took place across Canada. We appreciate very much all their tremendous efforts that contribute to the significant value of belonging to the Society.

**Catherine Mulligan**,  
Ph.D., Eng., FCSCE, FEIC  
Senior Vice President

## **Report the Vice President, International Bing Chen, Ph.D., P.Eng., MCSCE**

### **1. REPORT ON ACTIVITIES OF THE VICE PRESIDENT INTERNATIONAL**

The Vice President (VP) International is a member of the CSCE Board of Directors and serves as an advocate for CSCE's international activities as a member of the Board. The VP International is also responsible for:

- Oversight of the International Affairs Committee (IAC) and assisting its activities and projects;
- Overseeing and supporting Branch operations, developing Branch policy, and planning development of new Branches;
- Overseeing and undertaking international membership recruitment;
- Advocating and developing services to international members; and
- Overseeing the International Region and representing the interests of the International Region on the Regional Coordinating Committee and the Conference Committee.

During its June 2016 meeting, the Board of Directors shifted responsibility for overseeing the International Affairs Committee from the VP Technical Programs to the VP International. This move is an effort to better consolidate and manage CSCE's international activities. It increases recognition of the importance of international activities to the CSCE, and to increase the effectiveness of the VP International position.

IAC handles all CSCE's foreign and international activities and projects except for the sponsorships of some international and foreign conferences which may be handled directly by the appropriate Technical Divisions, the activities undertaken by the National Office in response to requests for information, and the activities of any CSCE Branch in a foreign country if outside specific bilateral agreements of cooperation. The IAC develops, promotes, and implements agreements of cooperation with foreign, national, and international societies. IAC is one of the CSCE's most active and important committees.

The first CSCE overseas branch - CSCE Hong Kong Branch (CSCEHKB) was established in May 2007. It promotes the objectives of CSCE and Canadian practice of civil engineering in Hong Kong through education and training and by means of establishing student chapters with local universities.

Both the IAC and CSCEHKB report to the VP International.

#### **1.1 "A Global Vision: Challenges and Opportunities", a Presentation to the Board**

As the VP International, I gave a presentation to overview the international membership and partnerships and a future vision of development in the Boarding of Directors Meeting on November 4, 2018 in Niagara on the Lake, Canada. Based on the data provided by the National Office in November 2018, CSCE foreign membership covers 48 countries in 6 continents including North America, South America, Europe, Asia, Africa, and Oceania. The CSCE International Region has over 370 members overseas including 170 students and 120 regular members, totally contributing around 7% of

the entire CSCE membership. We have established 26 international agreements with foreign societies and associations and 12 Institutional Members International (IMIs) worldwide. The detailed information are available on the CSCE International Region website (International Agreements: <https://csce.ca/en/committees/international-affairs>; IMIs: <https://csce.ca/en/membership/institutional-members-international-imis>). Such achievements have been made through the continued, dedicated efforts particularly by the past VP International (Kirk Thomson, Todd Chan, and Brian C. Burrell), IAC, and CSCEHKB as well as the CSCE leaderships and members in the past decades. Challenges were also identified along with some proposed approaches in terms of how to grow our international partnership and memberships in different categories, how to provide more benefits to foreign members, how to bring more opportunities back Canada, and how to reactivate some existing but inactive partnerships and develop more activities based on mutual interest.

We should and will continue and enhance such efforts to grow our international partnership and membership through the following: 1) growing international corporative partnership, IMIs and new branches overseas particularly through the new Ambassador Program (refer to the details below); 2) developing and co-hosting conferences and professional development activities with partners in foreign countries to promote civil engineering profession (some along with VP Technical Programs and/or Technical Divisions/Committees); 3) exchange of knowledge (e.g., publications) and expertise with overseas partners; 4) encourage and facilitation of civil engineering practice and business development of Canadian engineers and firms in foreign countries, and introduction of overseas opportunities to Canada; and 6) promoting, engaging and recognizing foreign membership (particularly Youth and student members). The efforts will well align with and provide strong support to the CSCE Three Strategic Directions - enhanced member services, growing with youth, and leadership in sustainable infrastructure.

## **1.2 Leadership Transition of IAC and CSCEHKB**

IAC is making a smooth transition of the

leadership. Rishi Gupta (University of Victoria) is going to finish his second 2-year terms as IAC Chair by the coming Annual General Meeting. The current IAC deputy chair, Jeanne Huang (University of Guelph/Nankai University) has been nominated and voted to fill in the Chair position by IAC. Sadegh Kazemi, the current IAC Secretary, will take over the Deputy Chair position based the voting of IAC.

CSCEHKB successfully held its 8th Annual General Meeting in September 2018 and selected the new Executive Committee membership starting from January 1, 2019. Kevin Cheung has become the Immediate Past Chairman and TC Kan has been elected as the successor to take up the Chairman position in the following two years. Ben CHAN serves his 2nd term as the Vice Chairman.

Appreciation goes to Rishi Gupta and Kevin Cheung who showed outstanding leadership in and made significant contributions to the IAC and the CSCEHKB respectively as well as the international affairs of our society.

## **1.3 Overseas Partnership Development**

As the VP International, I have been closely working with the IAC to strength our existing international partnerships and develop new ones. I have also working with the National Office to organize and evaluate the existing international agreements with potential follow-up engagement if necessary. A new IMI, Zhengzhou University (ZZU), has been recruited in China. Our Todd Chan (former VP International, VP Global Partnerships, and IAC Chair) made significant contribution to this new relationship. Zhengzhou University is a public university located in Zhengzhou, China and the largest university in the country in term of student number. Its four campus (433 hectares) host over 55,000 full-time undergraduates, 15,000 full-time postgraduates and 1,800 international students from more than 116 countries and regions along with over 5700 faculty and staff. As one of the top universities and listed on the “211” institutions in China, ZZU offers diverse programs at all levels and has strong research and teaching capabilities in civil engineering especially through the School of Civil Engineering.

A new partnership with the Institution of Engineers, Malaysia (IEM) has been recently established particularly through the efforts of

the IAC and its Chair Rishi Gupta. The Memorandum of Understanding has been signed by the presidents of IEM and CSCE in January 2019. The Memorandum sets forth the general principles, which the Institutions propose to follow as they co-operate in the exchange of information and knowledge in order to promote civil engineering in both countries. The IEM was established in 1959 with the primary function of promoting and advancing the science and profession of engineering and facilitating information and idea exchange in all its disciplines. As one of the largest professional organizations in Malaysia, IEM currently has about 45,000 members with an annual growth rate of around 10%. It has 16 technical divisions including Civil and Structural Engineering, Environmental Engineering, Geotechnical Engineering, Highway and Transportation Engineering, Water Resources Engineering, etc. The VP International and IAC are exploring collaborative opportunities such as co-hosting seminars with IEM for the following years.

## **1.4 Ambassador Program**

The Ambassador (or Envoy) Program, as previously approved by the Board, has been established to engage our members to grow the society’s international partnerships and civil profession globally. It supports a member (titled “CSCE Ambassador”) with a financial aid of up to CA\$500 to offset the travel costs for commencing a dedicated mission to promote CSCE and engage with the local civil engineering organizations in the country that he/she is visiting. An application stating a mission plan and budget justifications should be submitted to the VP International and IAC for evaluation. A mission report is required afterwards to be published on the IAC website and social media. Every year the number of Ambassadorships will be subject to the budget availability. The Program is open to any CSCE active members in all the categories. The first Call for Application with more detailed information will be circulated via CSCE E-Bulletin and posted on the CSCE website soon.

## **1.5 Visit to CSCE Hong Kong Branch**

As the VP International, I visited the CSCEHKB in March 2019 and met with the new Chairman, TC Kan, and the new Executive Committee leadership including Ben Chan (Vice Chairman; absent), Kelvin



Cheung (Immediate Past Chairman), Paul Pang (Permanent Honorary Advisor), Helen Kwan (Honorary Treasurer), Justin Chiu (Chair of Membership Committee), Simon Wong (Chair of Technical Committee), and Brian Wong (Chair of Publicity Committee). We together reviewed and cheered for the achievements of the Branch in the past year including student exchange activities (visit to University of Toronto in June), the Seismic Conference in June, the Branch's AGM in September, and the Annual Dinner (Canada 150) in October, and the Terry Fox Run in November 2018. Particularly it is commendable that a Commemorative Booklet - Yearbook for Canada 150 was published and distributed in order to promote Canadian culture and profession of civil engineering in the local community in Hong Kong. We also discussed the plan of 2019 such as the continued youth exchange with Canadian institutions, the AGM 2019, and the Annual Dinner. They cordially invited the CSCE President, VP International and IAC representatives to visit CSCEHKB and attend the Annual Dinner. We agreed that the more efforts would be made to sustain and grow IMIs and student chapters in Hong Kong through new or enhanced partnerships with local institutions which offer civil engineering programs. The CSCEHKB will avail of some new opportunities such as Ambassador Program, HUB and its groups, CSCE International LinkedIn Site, and potential PD events overseas. The details about the Branch's activities are described in Section 3 CSCE International Region.

## **2. REPORT OF THE CSCE INTERNATIONAL AFFAIRS COMMITTEE**

The following summarizes the main activities and outcomes by the IAC, based on the report prepared by IAC Chair, Rishi Gupta, PhD, P.Eng., MCSCE.

### **2.1 Overview**

The CSCE's International Affairs Committee (IAC) is chaired by Rishi Gupta, and current has 13 active members. The transition of the IAC leadership and membership is ongoing (refer to Section 1.2 in the Report of VP International). Formed in the 1980s, IAC has consistently been one of the CSCE's most active committees. IAC is generally mandated to plan and carry-out CSCE's international activities and to undertake its international development projects. IAC interacts with

foreign organizations to foster relations that will lead to joint meetings, conferences, other professional events and work projects for CSCE members and foreign organizations or clientele. IAC's mandate extends to promoting CSCE in foreign countries. It is responsible for development, implementation, and promotion of agreements of cooperation with foreign and international engineering bodies. IAC assists other arms of the CSCE with respect to hosting and protocol associated with visiting foreign delegates from engineering societies. IAC's mandate, however, excludes the operations of foreign branches of the CSCE (e.g., the Hong Kong Branch) and international/foreign conference sponsorship handled directly by Technical Divisions or the National Office. Information on IAC can be found on the committee's web pages, which are regularly updated with support from Lois Arkwright in the National office.

### **2.2 Technical Delivery Activities**

#### **1. Asia**

In China, the CSCE continuously gave non-financial support to and co-organized some important conferences through our partnerships with Chinese government and professional associations. The 12th Sino-American Technology and Engineering Conference was co-organized by the State Administration of Foreign Experts Affairs (SAFEA) of P.R. China and CSCE on May 19, 2018. Jeanne Huang (IAC Deputy Chair, Coming Chair, and Special Envoy to China) and Ron Droste (IAC Member and Former Chair) were heavily involved in the organizing and attended the event. The 4th Canada–China International Symposium on Winter Road Maintenance occurred in June 2018 in Beijing, China. It was based on the joint efforts by the China Highway and Transportation Society (CHTS) and the CSCE IAC (Andrew Liu, IAC Member and CSCE Liaison Officer for CHTS, and Ming Zhong) and CSCE Transportation Division (Liping Fu and Tony Qiu). In addition, communications were continuing with the China Civil Engineering Society (CCES) by Jeanne Huang (IAC Deputy Chair) and Bing Chen (VP International and former CSCE Liaison Officer for CCES) to follow up the CSCE leadership's meeting with CCES's delegation during the 2017 AGM in Vancouver and the proposal of a joint event on the topic of "One Belt and One Road", a national strategy of China. This strategy and

the associated mega infrastructure projects present potential significant opportunities for Canadian civil engineers and firms. The CSCE and CCES also continued the discussion and efforts to achieve the goals of the "International Development and Cooperative Alliance for Civil Engineering" signed by the two societies in 2015 along with the other civil engineering associations worldwide (e.g., ASCE and ICE).

In India, some promotion activities occurred by our IAC and CSCE members. Rishi Gupta (IAC Chair and Liaison Officer in India) organized the Special Session of "Lessons from Canada" to highlight CSCE and Canadian Engineering in the 3rd International Conference of American Concrete Institute in Mumbai, India, on December 14-15, 2018. The partnerships with Nirma University and IIT Gandhinagar continued to promote the CSCE and Canadian civil engineering. The efforts were made by Rishi Gupta and Mir Ali (Liaison Officer for India).

#### **2. The Americas**

Jamaica Institution of Engineers Annual Conference on October 18 in Kingston, Jamaica, was continuously co-organized with CSCE and especially through the leading effort by David Pratt (IAC Member and CSCE Liaison Officer for the Bahamas, Caribbean, Central and South America). The other co-organizers included the High Commission of Canada in Jamaica and Bahamas Society of Engineers.

The other IAC members have been making efforts in developing contacts and activities and promoting CSCE and Canadian civil engineering in the other countries, including Brian Burrell (former VP International) as Liaison Officer for Hong Kong, Macau and Taiwan Philippines, Sadegh Kazemi (IAC Secretary and coming Deputy Chair) as Liaison Officer for Iran, Van-Thanh-Van Nguyen as Liaison Officer for Southeast Asia, Ron Droste as Liaison Officer for Malaysia and Mongolia, etc. We are recruiting new IAC members and Liaison Officers in South America, Africa, and Oceania.

#### **2.3 Relationships**

Zhengzhou University (ZZU) has been recruited as a new CSCE Institutional Members International (IMI). Follow-up collaborative activities will be developed with

ZZU, along with the other IMIs.

The Institution of Engineers, Malaysia (IEM) has become a new international partner association of CSCE. The Memorandum of Understanding has been signed by the presidents of IEM and CSCE in January 2019.

Efforts will be made by the IAC to review/reactivate some inactive partnerships, develop activities to further engage the active relationships, and grow new ones worldwide.

### 3. CSCE INTERNATIONAL REGION

#### 3.1 Overview

The CSCE International Region includes all CSCE membership outside of Canada in various countries with differing cultures, languages, and economic and political systems.

The CSCE aims to increase international membership, maintain contact with international members, improve benefits for international members, and recruit Institutional Members International (IMIs). The International Region has Branches not Sections, with branches being semi-autonomous organizations set up under the laws of a foreign country.

The CSCE Hong Kong Branch (CSCEHKB) is the first overseas branch launched in Hong Kong in May 2007. It has been officially incorporated as a non-profitable learned society under the Hong Kong Business Registration Ordinance since August 2009. It has been promoting the objectives of CSCE, as Canadian civil engineers in Hong Kong are actively engaged in planning, design and construction of buildings and infrastructures in the local community.

The following summary highlights the major activities of the Hong Kong Branch, reported by the Immediate Past Chairman, Kelvin Cheung, PhD, FCSCE.

#### 3.2 Annual General Meeting and Annual Dinner

The 8th AGM of the CSCEHKB was successfully held on 17th September 2018 at Room GH237 of the Hong Kong Polytechnic University. With new EC elected for the 2 years term starting from 1st January 2019, the Executive Board was very proud to congratulate Chairman KAN and Ir Prof Paul PANG as the Permanent Honorary Advisor.

Two gentlemen had worked tirelessly and had such an influence on the Branch.

The 8th Annual Dinner was held on 11th October 2018 at the Ballroom of the Royal Plaza Hotel, Kowloon. The Annual Dinner had successfully attracted an attendance of over 200 participants, amongst which were prominent professionals of the construction and engineering sectors, the heads of civil engineering departments of local universities and presidents of sister engineering societies. The Consul General of Canada in Hong Kong and Macao, Mr. Jeff NANKIVELL continued his wholehearted support to the CSCEHKB as the most distinguished guest of the Annual Dinner. The Secretary for Hong Kong Transport and Housing, Mr. Frank CHAN, as the Guest of Honor, also delivered an inspiring speech. Other honorable guests included: Ms. Fatima LAL, the Trade Commissioner of the Consulate General of Canada in Hong Kong; Ir Dr. Hon. LO Wai-kiwok, the LegCo Member of the Engineering Functional Constituency; Mr. CHUI Wai-sing, Assistant Director of Drainage Services; Mr. LEE Tai-on, Assistant Director of Water Supplies; Mrs. HUI Ming-fong, Assistant Director of Buildings; Mr. Raymond POON, Assistant Director of Electrical and Mechanical Services; and Ir Edwin CHUNG, Vice President of the Hong Kong Institution of Engineers (HKIE).

#### 3.3 Technical Conference, Seminars and Visits

To promote the public knowledge and the practical use of structural timber in Hong Kong, the CSCEHKB had organized a seminar on “Modern Timber Structures” and invited a Canadian timber expert, Prof. Frank Lam from University of British Columbia, to deliver the seminar which was held on 17th March 2018 and attended some 50 participants including professional engineers from the government departments.

To explore the modernized building technology of modular integrated construction (MiC), the CSCEHKB had organized a special guided tour to the MiC Display Centre at Zero Carbon Building Kowloon Bay, Hong Kong on 15th December 2018. It is 2-storey model structure built by technical use of modular integrated construction.

In addition to our own activities, the CSCEHKB had been actively involved in the following events in the role of supporting organization to encourage sharing and collaboration among professional bodies:

- ICE Bicentenary Hong Kong Innovation Summit – Transform and Protect Lives organized by the Institution of Civil Engineers (ICE) held on 12th January 2018;
- Annual Forum “Developing Intelligent Resource Preservation Strategies for Hong Kong: Challenges for Innovation and Sustainability” organized by the HKIE Environmental Division held on 27th April 2018;
- ICE Distinguished Lecture organized by The Institution of Civil Engineers Hong Kong Association (ICE HKA) under the title of “Pointers to successful delivery of infrastructure projects – A Hong Kong half century and beyond” held on 30th August 2018;
- Second JTC1 Workshop organized by The Joint Technical Committee on Natural Slopes and Landslides (JTC1) of Federation of International Geo-engineering Societies (FedIGS) under the topic of “Triggering and Propagation of Rapid Flow-like Landslides” held on 3rd - 5th December 2018; and
- the event of Public Engagement on “Long-term Decarbonization Strategy” organized by the Council for Sustainable Development (SDC) which is an advisory body appointed by the Chief Executive of the HKSAR.

#### 3.4 Social Networking and Charity

The CSCEHKB has established as one of the popular professional bodies in Hong Kong in the recent years and we maintain close relationship and good networking with our counterparts in the local engineering and construction industry. Some of the social events that CSCEHKB was invited to attend in 2018 are listed as follows:

- ICE Presidential Reception in Hong Kong organized by the ICE HKA held on 12th Jan 2018;
- ICE 200 Distinguished Lecture – Excellence & Innovation: There is No Bridge Too Far organized by ICE HKA held on 13th March 2018;
- VIP Reception for World’s Longest Span Bridge with LEGO Bricks organized by

- ICE HKA held on 21st March 2018;
- Inauguration Ceremony of The Institution of Structural Engineers Hong Kong Regional Group (IStructE HKRG) cum dinner held on 23rd March 2018;
- The dinner gathering for young engineer/leader organizations in Hong Kong organized by Ir Johnny CHAN, a Council Member of the HKSAR Government Civil Engineers Association held on 29th June 2018;
- Technical Talk on Sharing of experiences, studies and global development on innovative monitoring organized by the IStructE held on 6th November 2018;
- The HKIE Environmental Division Annual Reception held on 8th November 2018;
- The American Society for Civil Engineer Hong Kong Section (ASCE HKS) Annual Dinner held on 14th November 2018;
- ICE 12th Brunel Lecture organized by ICE HKA held on 15th November 2018;
- Seminar “Time to Change” organized by the ICE HKA held on 29th November 2018; and
- ICE 200 Distinguished Lecture – Civil Engineers Protect & Transform Lives – professionalism, passion and preparedness organized by ICE HKA held on 18th December 2018.

As the CSCEHKB is established as a local learned society with Canada link, we have established our inherent social network with the Consulate General of Canada in Hong Kong and Macao. Graced by the Consul General, Dr. Kevin Cheung attended the Canada Day Reception on 28th June 2018. On 2nd December 2018 at Sai Wan War Cemetery, the Founding member and Publicity Committee Chairman, Mr. Brian WONG had representing CSCEHKB attended the 70th Canadian Commemorative Ceremony organized by the Consulate General of Canada in Hong Kong and Macao.

The social networking of the CSCEHKB also extended to the annual charity event namely Terry Fox Run Hong Kong which was held on 3rd November 2018 at Ma On Shan NT. This was the third consecutive year that the

CSCEHKB formed a running team to participate in the charity event. The running team had raised a total amount of some CAN\$2,000 to The Terry Fox Foundation this year of which CAN\$1,000 was donated from the CSCEHKB.

### 3.5 Special Edition for Canada 150th

In promoting Canadian culture and profession of civil engineering in the local community on the occasion of Canada 150th, the first 500 copies of the special yearbook were made as a gift to all supporting organizations and participants including the Canadian Consulate in Hong Kong, the Canadian Chamber of Commerce in Hong Kong, Honorable guests, and some local Canada-linked organizations and sponsors as well as CSCE National Office in Canada.

### 3.6 CSCEHKB Student Chapters in local universities

The CSCEHKB currently had 3 active student chapters in the local Higher Education Institutions where they have civil engineering programs, namely Chu Hai College of Higher Education, the Technological and Higher Education Institute of Hong Kong (THEi), and the Hong Kong Institute of Vocational Education (Tuen Mun). The Hong Kong Branch had supported THEi for organizing a successful Seminar “Building Our Underground City” by Ir James SZE on 7th February 2018. To broaden students’ horizons, we CSCEHKB continue to work as hard as we could with Canadian universities providing the overseas learning opportunity for local students. The significant growth of student memberships of over 200 is very encouraging and that some students were actively involved in helping out and organizing the Branch’s activities.

## 4. CONCLUDING REMARKS BY THE VP INTERNATIONAL

The VP International would like to take this opportunity to thank all the volunteers that work on behalf of the CSCE’s international activities and programs for their efforts and contributions.

I would also like to express our appreciation to the former VPs International (Kirk Thomson, Dr. Todd Chan, and Brian C. Burrell) for their great passion, leadership and contributions to our society’s international affairs and development. Kirk Thomson and Dr. Todd

Chan have passed away, but they are missed very much. Brian Burrell is actively serving on the IAC as CSCE Liaison Officer for Hong Kong, Macau and the Philippines.

Special gratitude is expressed to Dr. Rishi Gupta (IAC Chair and Intermediate Pass Chair) and Dr. Jeanne Huang (IAC Deputy Chair and Coming Chair) and Dr. Kevin Cheung (CSCEHKB Intermediate Pass Chair) and Dr. TC Kan (CSCEHKB Chair) as well as the Executive Committees Members of IAC and CSCEHKB.

**Bing Chen**, P.Eng., MCSCE  
Vice President International

**Young Professionals Committee**  
Chair: **Nicholas Kaminsky**

The mandate of the Young Professionals (YP) Committee is to provide services and programming for students and young professionals that will assist them in the development of their careers. Our committee’s mandate directly supports the CSCE’s Strategic Direction 2, which is dedicated to growing with youth. Our committee’s continuing initiatives include providing support and funding for section networking, mentoring or youth outreach events. Our committee expanded its footprint in 2018 recruiting new members from both Calgary and Vancouver Island, which will continue to ensure full representation of our members from across the country.

The young professional articles in Canadian Civil Engineer continue to bring attention to important and relevant topics pertaining to young professionals. As chair of the committee, I reported on several topics including young professional women in engineering and highlighting research being completed by young civil engineers in addressing the Truth and Reconciliation Commissions Calls to Action. Our articles will continue to focus on the importance of professional development for young professionals. Most notably, we will be releasing a series of leadership articles based on discerning the qualities of past leaders with the CSCE and to promulgate these to our members. We believe that some of the most important lessons learned come not from our own experiences, but from that of others.

The introduction of free student memberships was a positive step forward, providing the opportunity for young members to experience the array of benefits a full membership provides. It is critical to the CSCE's success to continue to foster the growth of young professionals within our society. Membership growth within our student members and young professionals will be an increasingly important method in which we achieve this growth. We are committed to supporting grassroots events across the country which, provide exposure and builds momentum for our society at the local section level. Furthermore, our committee will continue developing a young professionals promotional brochure with an anticipated delivery to the regions by mid-fall.

Guided by the Strategic Directions of the society, our committee will continue working towards our goals including: increasing the number of local YP events (enhanced member services) and bridging the gap between student members and associate members (growing with youth).

**Nicholas Kaminski**, P.Eng., PMP, MCSCE  
Chair

#### **Student Affairs Committee**

Chair: **Charles-Darwin Annan**  
Members: **John Gales, Alan Lloyd, Ali Imanpour, Saber Moradi**

In 2018, the Student Affairs committee continued to strengthen programs and opportunities to support students and contribute to the strategic direction of the CSCE – Growing with the Youth. The Committee continued to provide Student Chapters with resources to help them develop early professional consciousness and instil in them a sense of belonging to the Society.

Major events in 2018 included the following:

- New committee members. Professors Yi Liu, Tirupati Bolisetti and Paul Thurston were appreciated for their dedicated service to Student Affairs in the last five years, and were relieved to focus on other services. New committee members (Profs. John Adam Gales, Alan Lloyd, Ali Imanpour and Saber Moradi) were recruited by the chair during the 2018 Annual Conference in Fredericton. Charles-Darwin remains the chair of the

committee.

- Strengthened Communication with Student Chapters through emails and on the student affairs website.
- Resource Support: 'SWAG' CSCE packages (including rulers, stickers, pens, and high lighters) were made available to Student Chapters for the school year kick-off and membership drive. The student chapter guide was updated in both English and French. Student Affairs website was also updated.
- Student Chapter Annual Report – 25 Student Chapters submitted annual reports for the 2017/2018 school year, which were evaluated by the newly constituted committee. The annual reports helped Student Affairs assess the effectiveness of its programs and to provide some feedback to the Chapters on their activities. The report also served as basis for selection of the most outstanding student chapter for the President's award and other recognition. UBC Vancouver won the president's award, while Western and BCIT took second and third places. Concordia and Laval were the most improved, and Waterloo and UNB received honourable mentions for consistent performance. These student chapters were invited to receive their awards at the annual conference. Mr. Martin Bolo received commendation for his outstanding contribution to the BCIT student chapter, based on a nomination by his student chapter.
- Student Chapter Leaders Workshop. The committee organised its 6th annual student chapter leaders' workshop at the CSCE Annual Conference to encourage stimulating interactions amongst Student Chapter leaders. Eleven student chapters participated in this workshop.
- National CAPSTONE Design Competition. The committee held the national civil engineering CAPSTONE design poster/oral competition at the CSCE annual conference. 17 universities across the country participated in this competition, which was won by Université de Sherbrooke, while UBC Okanagan and Memorial University came second and third respectively.
- Student Paper Competition. The committee organised the student research paper competition at the CSCE annual conference. 95 entries were received, out of which 29 were shortlisted for oral presentation for evaluation. Dr. Benjamin McGuigan of

GEMTEC, Fredericton, NB, and Dr. Oh of UNB volunteered to coordinate the competition.

- Canadian Steel Bridge and Concrete Canoe Competitions. These competitions were held by the student competition subcommittee at Waterloo, and winners were invited to receive their awards at the annual conference in Fredericton. ETS won both competitions.

In 2019, the Student Affairs committee will continue to develop programs and opportunities that will support students, and contribute to the strategic direction of the CSCE. Existing programs will be strengthened and new initiatives will be considered.

Chair: **Charles-Darwin Annan**  
Members: **John Gales, Alan Lloyd, Ali Imanpour, Saber Moradi**

#### **Western Region**

Vice President: **Min Sun**  
Treasurer: **Rishi Gupta**

Many thanks to the outgoing Vice President Caterina Valeo for her hard work. Since taking over in 2018, we've had the pleasure of interacting with the Section Chairs and learning about their activities. The Western Region will continue to embrace the CSCE strategic directions, engage local professionals, and grow its membership.

#### **Edmonton and North Alberta**

Chair: **Court Beamish**

The Edmonton Section continues to be highly active, providing a wide range of interesting and rewarding services to its membership. The Section hosted 7 separate dinner presentations throughout 2018 on a variety of topics including "Mechanized River Valley Access (Funicular)", "Yellowhead Freeway Conversion Project", "Geo-Thermal Energy", and "Ice District Stantec Tower" to name a few. The Edmonton Section also successfully held the inaugural One Day Symposium on "Innovations in Civil Engineering" in October of 2018.

For 2019, the Edmonton Section will continue its tradition of providing a wide range of events for the local members and students including sustainable projects

around the “Hay River – Pine Point Bridge Rehabilitation”, “Tundra Mine Remediation”, Pipeline Bending from Geotechnical Movements”, with more presentations to come in the fall of 2019. Planning will begin in 2019 for a second One Day Symposium, tentatively scheduled for early 2020.

The Edmonton Section is also engaging students with student information sessions on Civil Engineering, the Larry Gerard undergrad student paper contest and the graduate student poster contest. These future CSCE members can look forward to technical tours, contests and prizes in 2019.

The Edmonton Young Professionals Group is no less active with 8 events in 2018 including a tour of the Mill Creek Ravine Wooden Bridge Replacement and Mentoring, their annual curling funspiel, social nights and mixers between organizations. This group is looking forward to continued fun activities and technical talks including Devon Wastewater Treatment Facility. Events like the curling funspiel, technical tours, billiard tournaments and student awards will continue to help draw the young professionals and students to the Edmonton Section in 2019. Please see [www.facebook.com/CSCEEdmonton/](http://www.facebook.com/CSCEEdmonton/) or [www.csceedmonton.ca](http://www.csceedmonton.ca) or [www.twitter.com/csceedmonton](https://twitter.com/csceedmonton) for some great photos and updates on upcoming events.

### **Vancouver Island**

Chair: **Jonathan Reiter**

The Vancouver Island Section is working to reinvigorate the presence and visibility of the CSCE locally, by adding new members to the Executive, and continuing to encourage and support the growth and activities of the University of Victoria's CSCE student chapter. 2018 activities were focused on the students, with the Vancouver Island Section providing financial support to assist with student activities, which included talks from local Engineers and student-professional mixers. The first International Conference on New Horizons in Green Civil Engineering held over three days in April at the University of Victoria was well attended. The executive is working to establish a new local technical program for 2019, to provide members with opportunities for networking and

professional development by attending seminars/presentations on topics of local interest, in addition to future National Lecture Tours that may be organized. UVic's CSCE Student chapter is actively planning on 2019 events, including liaising with Student Chapters at UBC, UBCO and BCIT for information sharing and networking. Participating in the CSCE Canadian National Concrete Canoe Competition in May will be a first for UVic, and plans are in the works for local technical tours, and an inaugural annual Industry Mixer BBQ. The Vancouver Island Section Executive supports the Student Chapter, with Chapter representatives invited to attend executive meetings for coordination of program planning, and to provide regular updates on Student activities.

### **Calgary**

Chair: **Annie Wang**

The Calgary section continues with another active year regularly providing a wide range of presentations and tours to its memberships. The general events hosted by the CSCE Calgary Section for 2018 included “Passive House Design for High Rise Buildings”, “Tall Wood Building Seminar”, “Leadership in Engineering”, “The New Central Library”, “Quarry Park Fish Habitat”, “ELA Calgary - The First Publicly Accessible Autonomous Vehicle in Canada”, and “Upgrading Aging Infrastructure for Crowchild Trail”. The Young Professionals Group is also picking up again with a partnered event with APEGA to explore “Professional Member Applications and Competency-Based Assessment” and is continuing with further interesting events in 2019. The annual Popsicle Stick Bridge competition and the Graduate Student's poster competition remain to be big hits among the student chapter at the University of Calgary. Please see the sections facebook page at [/www.facebook.com/CSCECalgary](https://www.facebook.com/CSCECalgary) for photos and updates as well as [//twitter.com/cscecalgary](https://twitter.com/cscecalgary), the CSCE Calgary Section is now also on LinkedIn at <https://www.linkedin.com/company/cscecalgary-section>.

### **Vancouver**

Chair: **Stephanie Dalo**

The University of British Columbia Chapter

of the Canadian Society for Civil Engineering (UBC CSCE) continues to enhance the public image of the civil engineering profession. Many of the events put on by UBC CSCE not only allow students to meet with industry and establish contacts for future employment prospects, but also provide unique and genuine opportunities to learn and understand many aspects of civil engineering that would not normally be explored inside a classroom, including: Lunch & Learn Seminars, Site Visits and UBC CSCE Industry Night. On January 25, 2018 at the UBC Pharmaceutical Sciences Building for the largest annual networking event for Civil Engineering students, the UBC CSCE Student Chapter hold the 2018 Industry Night. This provided an excellent opportunity to meet, talk, and network with Civil Engineering professionals from a range of companies and disciplines, as well as UBC Civil Engineering Alumni.

Vice President, Western Region: **Min Sun**

### **Prairie Region**

Vice President: **Mike Hnatiuk**

### **South Saskatchewan Section**

The Section, chaired by Harold Retzlaff, has been moderately active. The Section hosted several technical lunch presentations. The Section also hosted the Lac-Megantic NLT. The Section is pleased to support the establishment of the CSCE HUB. An additional volunteer was added to the Section Board to assist with this endeavor.

### **Saskatoon Section**

The CSCE Saskatoon Section has been active again this year focusing on the events that are well received and well attended by the local civil engineering community. The Saskatoon Section has a number of loyal local sponsors, most of whom returned again this year, and their financial contributions as well as their attendance and participation in the Section's activities are greatly appreciated. The Saskatoon Section local sponsorships are set up that each sponsorship level comes with a number of free vouchers to attend our noon-hour luncheons, or Nooners as they are known locally. It is a win-win for the Section that the funds from the local sponsors create the yearly operating budget, and the fact that the vouchers are included as part of these

sponsorships drives attendance from local firms at the Nooners.

Five Nooners were hosted this year, with average attendance through the season of 37 people per Nooner. This is an increase from the average of 31 people the year before, and averages of 25 people or less in seasons prior. The Section is very focused on continuing this great tradition, and look forward to another season starting in September.

The Section also conducted some outreach activities to try and help engage students in both the local University of Saskatchewan CSCE Student chapter and the activities of CSCE locally and nationally. The Section hopes to continue to garner interest and support of the CSCE at the University.

Other Section activities this year included the annual popsicle stick bridge competition. This year, a new trophy was hand crafted by our Section executive, which added a new feature to the Professionals' Challenge. The Section also organized a tour of a local precast concrete and precast concrete pipe facility, which was also well attended.

Lastly, the Section is trying to recruit and retain executive members, which has posed a challenge in recent years.

#### **Manitoba Section**

The section is still in a dormant phase, but there are efforts led by a couple local CSCE members to build some momentum. There are hopes that traction can be gained in the community in the next year to re-start the section and hold some events.

Vice-President, Prairie Region, **Mike Hnatiuk**

#### **Ontario Region**

Vice President: **Peter Calcetas**

Mission:

1. Create a resilient, transparent and self-sustaining Ontario Region Operating Organization.
2. Leveraging the robust Ontario Region Operating Organization to increase loyalty, membership, participation and passion for Civil Engineering Enthusiasts.

#### **Plan:**

1. Create a critical mass of CSCE talent,

cross trained to run the Ontario Region Operations.

- a. Target Toronto Section Executives for 2018 to 2019 for recruitment into the Ontario Region Organization. Once successful, expand to other Sections.
  - b. Employ Members from Toronto Section to Mentor the GTA Student Chapters.
  - c. Leverage key learnings and replicate to all other Sections & Chapters.
  - d. Transfer of skills and contribute support for Ontario Sections & Chapters.
2. Establish new Student Chapters and Sections
  3. Support existing Chapters and Sections
  4. Fully support the HUB, Mentorcity and On Line collaboration/social tools
  5. Drive Technologist Membership
    - a. Develop & execute a plan to incorporate all Civil Engineering Technologist Schools into the CSCE National Sustaining Membership.
    - b. Develop & execute a plan to increase Civil Engineering Technologists Membership for the CSCE.

Ontario Region Organization: Functional & Geographic Matrix

1. Create a formalized matrix organization based on functional responsibilities and geographic footprint.
2. Functional Responsibilities: Serves the specific customer segment/ membership segment.
3. Geographic Footprint: Synergizes resources, experiences, network and talent to effectively serve the 3 strategic objectives.
4. Increase the value of membership participation by providing more opportunities to experience and practice leadership, management, career experiences and enhanced professional/social networking.
5. Promote a robust and resilient organizational structure through the identification, recruitment and training of successors for each leadership position at the Chapter, Section and Regional level.
  - a. Create and recruit "heir apparent" roles in the form of "Deputy" versions of current positions.
    - i. Example: Regional Vice President and Deputy Regional Vice President (Training for the role of Regional Vice President)

6. Deputy Regional Vice President: For this role, I have selected Alexandre Andrenkov as my Deputy, whom I would I have committed to train as my successor once my term(s) are completed.

VP - Ontario Region: **Peter Calcetas**  
peter.calcetas@gmail.com

National Capital Section – Section Chair:  
**Nima Aghainey**  
nima.aghniaey@ottawa.ca

Durham Northumberland – Section Chair  
**Robbie Larocque**  
robbie.larocque@dgbiddle.com

**James Garland**  
James.Garland@durham.ca

Toronto – Section Chair  
**Alexander Andrenkov**  
CSCEToronto@gmail.com

Hamilton Niagara – Section Chair  
**Ben Hunter**  
ben.hunter@amec.com

London and District – Section Chair  
**Julian N. Novick**  
julian@wastell.ca

Northwestern Ontario – Section Chair  
**Gerry Buckrell**  
gerald.buckrell@hatchmott.com

Vice-President, Ontario Region  
**Peter Calcetas**  
peter.calcetas@gmail.com

**Quebec Region**  
Vice President: **Frédéric Brunet**

The Quebec region includes three professional sections (Montreal, Quebec and Sherbrooke) and six student chapters (ÉTS, Polytechnique, McGill, Concordia, Laval and Sherbrooke). As was the case last year, one of the objectives of the region was to maintain communication and collaboration among the sections. During the past year, this was done mainly through the organization of the CSCE Annual Conference, which will take place in the greater Montreal area from June 12 to 15, 2019 under the theme: Growing with youth. The local organizing committee is made up of

members from all three sections, and this joint initiative has enabled active participation between the sections to make it a regional success. Parallel to the organization of the conference, the region has worked to improve the member services, to increase the visibility of the partners and to boost the experience of its volunteers.

### **Montreal Section**

This year's Section Executive Committee was chaired the Past Vice-President, Jennifer C. Tran. Alexandre Pépin joined the team as director. In total, six members, mainly from engineering firms, form the executive committee of the Montreal section. It should also be noted that Jean-Luc Martel and Ghislain Dionne acted as contributors to the section.

During the past year, the committee organized six periodic conferences held on the last Monday of each month. These conferences focused on topics related to the various spheres of civil engineering without being of an advanced technical level. The conferences focused, among other topics, on the emergency structural shoring of a bridge, the 2017 spring flood and flood risk management, the design of the new Champlain Bridge, and asphalt pavements versus concrete pavements.

The first activity of the section was a conference given by the CSCE Past President, Susan Tighe. The latter discussed engineering leadership by presenting anecdotes and past experiences and providing practical advice to both young professionals and experienced engineers. This conference was followed by a cocktail organized in collaboration with the CSCE's Young Professionals Committee. This activity is part of CSCE's desire to grow with young people, as was the organization of the fourth edition of the career forum during which five engineers with a remarkable background presented their career path. Students and professionals attended the event which was followed by a networking session with wine and appetizers.

Finally, to improve member services, the section participated in a meeting on collaboration between professional associations in Montreal. This event aimed to establish links with other groups such as the Young Bar Association of Montreal, the Young Chartered Professional Accountants of Quebec and the Quebec Urban Design Association, to name a few. This initiative will allow the organization of

conferences or joint networking events, which will offer a wider variety of topics and opportunities to our members.

### **Quebec Section**

The current president of the Quebec section is François Leprince. The committee is composed of eight members from engineering firms, the Quebec Ministry of Transportation and product manufacturers. In addition, two of these members are representatives of the student chapter of Laval University. Collaboration between professionals and students helps to maintain a strong connection and facilitates the retention of student members.

The committee organized seven conferences on the following topics: the use of aluminum in bridges in Quebec, a 13-storey wooden building project, concrete pavements and a power plant in a northern environment. Also, the annual joint CSCE - Canadian Geotechnical Society (CGS) conference was held. This year's event focused on the exploitation of the Whabouchi lithium deposit and covered the environmental management of mine tailings using an innovative method limiting the ecological footprint. A career forum was also organized during which two engineers from different sectors were invited to share their career path with several student and professional members.

To close the season, the section once again held its popular lobster dinner. This activity aims to strengthen relationships between members and to thank all partners for their support. In addition, Fellow members were invited free of charge. They were very appreciative and hoped to participate again.

### **Sherbrooke Section**

This section has undergone a transformation in the last year. After establishing an action plan during the fall semester, two undergraduate students organized a dozen lectures, a site visit and a major networking evening at the regional level to connect professionals and students. The activities and drive of the section attracted a few motivated students who joined the team making the team more dynamic.

During the year 2018-2019, Zohra Alaoui served as President, RomiAnne Beaudoin as

Vice-President, Yohan Dulac as Treasurer and Claudine Sévigny-Vallières and Maxime Bourdeau as executive members.

The variety of activities that were offered was aimed at broadening the target audience. Several issues were discussed including the legal aspect of engineering, consulting engineering, the vision of entrepreneurs, construction using an innovative material such as aluminum, management of engineering, etc. More original and inspiring events were held such as a visit to one of the largest projects in Canada, the Metropolitan Express Network. Dominique Anglade, a former Quebec minister and an engineer, gave a conference on leadership. Finally, the networking evening brought together more than a hundred professionals and students from the Eastern Townships during a formal Happy Hour. The guest of honor was none other than the Dean of the Faculty of Engineering, Mr. Patrik Doucet, Eng. Ph.D.

The aim of the section to reach out to more professionals was largely achieved and the comments of the participants, both undergraduate and graduate students as well as professors, were very positive. Attendance at the events was also very high with an average of fifty participants. Next year looks promising with yet more activities.

Vice-President, Quebec Région:  
**Frédéric Brunet**

### **Atlantic Region**

Vice President: **Samuel Richard**

The Atlantic Region includes four sections; East New Brunswick and Prince Edward Island, Newfoundland and Labrador, Nova Scotia and West New Brunswick. The 2018 regional activities were governed by the Atlantic Region Council comprised of the Vice President Atlantic Region, Jeff Rankin (Past Vice President Atlantic Region), Kaveh Arjomandi (Region Treasurer) and the chairs of the four Atlantic sections. Regional meetings were held every two months throughout the university academic year in order to ensure good communication between sections and provide better value to the CSCE membership. In addition, most of the Atlantic Region Council's members were in attendance at national meetings, at the November

Workshop event and at the CSCE Annual Conference. These meetings provided insight on new ideas and upcoming activities across Canada and served to promote communication with the national governing body.

The **East New Brunswick and Prince Edward Island Section** played an active role in their society by organizing and promoting multiple activities throughout the year. The executive members consist of Jérémie Aubé (Chair), Samuel Richard (Past Chair), Shawn Arseneault (Treasurer), Gilles Hébert (Secretary), Serge Desjardins (Student Liaison), Catherine Ouellet (Student Representative), Dani LeBlanc (Director, Social Media & Communications, Young Professional Representative), Gérard Poitras (Director), Hélène Thériault (Director), François Duguay (Director) and Sherry Trenholm (Director).

The section's primary agenda was to promote student participation and memberships at the Université de Moncton (UdeM)'s Faculty of Engineering. The objective directly correlates with the CSCE's vision of growing with youth by engaging engineering students early in their career.

During the spring semester, a technical presentation on the newly constructed Harrisville Boulevard Interchange was organized for students and professionals of the Greater Moncton area. This "dog-bone" type interchange is the first of its kind in Canada. The section also hosted the Wharf Rehabilitation Course which was organised by the National Office. This event was by far the most successful across the country with close to 70 participants. At the end of the university calendar, the second edition of Fellow's Night was hosted on the UdeM campus. Michel Massiera (FCSCCE), a retired professor from the Université de Moncton, presented the highlights of his career, volunteer work, and accomplishments as both a civil engineer and a professor. This event served as a closing ceremony for the CSCE student chapter's activities, which included a presentation from the student chapter members and from the UdeM Concrete Canoe team.

In September, at the beginning of the university academic year, the section hosted a presentation introducing the CSCE to engineering students from the UdeM. At this

session, students had the chance to take advantage of the free CSCE membership and register with the help of section representatives. In November, the section hosted another successful national course, the new Masonry CSA S304-14 code, which was very well attended with over 20 participants. The section also participated in the engineering student body's (AEEGUM) Wine and Cheese event, which provided networking opportunities between students and professionals.

The **Newfoundland and Labrador Section** played an important role at Memorial University (MUN) by providing support for the engineering students throughout the year. Consequently, the CSCE events were attended by many and student memberships have greatly increased. The executive members consist of Baiyu Helen Zhang (Chair), Bin Chen (Past Chair), Susann Hickey (Treasurer), Joseph A Daraio (Student Advisor), Keerthika Felicia Ashok Kumar (Student Representative), Gordon Jin (Director), Leonard M Lye (Director), Gary Caul (Director) and Scott Batt (Director).

Every year, the section promotes the CSCE by hosting the Annual Engineering Open House and Laboratory Tour at MUN. Many high school students and their parents are exposed to the CSCE, as well as the MUN civil engineering program. This year, the event was a great success with approximately 200 participants in attendance. Later in the year, the section organised a Civil Night where three guest speakers were featured and the winning team of MUN's 2018 CSCE Capstone Competition shared their experience from the national competition. Additionally, the section's chair presented the Tiller Engineering Inc / CSCE NL Scholarship during the Memorial

Engineering Fall 2018 Award Ceremony.

The section has played an active role in their society during the year. They have provided support to the MUN's Capstone team for their participation at the national competition and the Annual Conference held in Fredericton. Executive members have contributed to Annual Conference meetings, to the November Workshop activities and to National Board Meetings. They have also submitted EIC nominations to further promote civil engineering in their area.

The **Nova Scotia Section** is chaired by Haibo Niu. For many years, the section has had significant difficulties implementing section activities. However, the section has played an active role at Regional Council meetings. They have participated in the November Workshop and the National Board Meetings in Niagara Falls. National events are a great way to network and gain support from CSCE members across Canada. These experiences provide resources for upcoming sections in order to help them rebuild and restructure. The Atlantic Region Council will continue to support the growth of the Nova Scotia Section throughout the upcoming years.

The **West New Brunswick Section** continues to gain momentum created from the CSCE Annual Conference held in Fredericton. The section is governed by a group of motivated and hardworking young professionals. The executive members consist of Robbie Praeg (Chair), Brandon Searles (Past Chair), Coady Cameron (Vice Chair), Alyson Dean (Treasurer), Nikole Watson (Secretary), Lucas Storey (Young Professional Representative & Student Liaison), and Mike Benson (Social Representative). In addition to these people, Jeff Rankin (Past Vice President, Atlantic Region), Lloyd Waugh (Past President, CSCE), Alan Lloyd (Academic Advisor to the University of New Brunswick (UNB) Student Chapter), and Jameson Cunningham (President at the UNB Student Chapter) attend the monthly meetings.

Early 2018 has been very busy for the section. In addition to the regular events, the core committee planned the Young Professional and Student Events, as well as the technical tours for the CSCE Annual Conference held in Fredericton. Without doubt, the conference has proved to be a great success. The countless hours of planning and coordinating by the section were invaluable. Congratulations to all who have contributed! Multiple Techtalks have been planned, organised and presented throughout the year. The Director of Innovation and Infrastructure at CyberNB, David Whelbourn, presented the importance of cybersecurity and its impact on civil engineering. Sean Lee, Assistant Director, Engineering and Operations at the City of Fredericton, shared upcoming projects for the city and discussed how infrastructure renewal can be incorporated into an adaptation strategy and planning. Dr. Anna



Robak, Research Manager, Innovation and Future Ready at WSP, introduced the principles of Future Ready, showed trends in the city and how we can apply these trends in order to help make Fredericton more Future Ready.

The section also linked up with the UNB Student Chapter, helping to promote the third Steel Bridge Competition, the Annual Curling Networking Night, the Troitsky Popsicle Stick Bridge Building Competition at UNB, the Professional Development Dinner and the End-of-Year Civil Engineering Banquet.

Lastly, the section held their 2nd of a bi-annual Fellow's Night where Fellows were invited to attend an evening of celebration in their honor. Over 65 people were in attendance, including 15 Fellows. The night was highlighted by the most recent appointed Fellow, Hans Arisz. Hans gave his insight on the past, present and future of the civil engineering profession.

Vice President, Atlantic Region  
**Samuel Richard**

# Report of the Honorary Treasurer

**Brad Smid**

The CSCE Board of Directors is dedicated to fiscal responsibility and sound financial management. As a non-profit society, our goal is to be self-sustaining by closely aligning our projected expenditures to our projected revenues. Following a year of financial challenges in 2017, I am proud to report that the situation has stabilized and the society is back on a solid foundation to move forward. This allows us to invest in our strategic directions and lay the groundwork for many exciting initiatives to come. The CSCE has five main sources of revenue. These are membership, corporate membership, communications (magazine and website advertising), life-long-learning, and conferences. In 2018 we saw higher than expected revenues in most of these areas. This is thanks to the efforts of many, including members who helped with our "pin challenge" membership renewal campaign, members involved in the planning of the Short and Medium Span Bridge Conference and the CSCE Annual Conference in Fredericton, and members (both corporate and individual) who attended and supported life-long-learning activities.

Over the past two years our expenses have been higher than anticipated. This is due to continued re-structuring in National Office, as well as our focus on investing in our strategic initiatives. In particular, we continue to encourage CSCE volunteers in our sections, regions, divisions, programs, and committees to be active, by offering financial support from the society whenever it can be accommodated within our budget envelope. On balance, the society essentially broke even in 2018. As noted above, this is a step in the right direction and sets the groundwork for the society to break even or record a slight profit in 2019. As noted in my last report, we need all CSCE members to continue to drive the society's success through their engagement with CSCE. This can be as simple as wearing your CSCE pin in your workplace, helping to recruit a new member, or attending local, regional, and national CSCE events.

The CSCE's financial statements, as audited and presented by the firm Baker Tilly Montreal, are appended to this annual report. The audit covers CSCE's fiscal year period of January 1st 2018 to December 31st 2018. The CSCE Foundation Trustees oversee the four distinct funds within the umbrella of the Foundation, as described in the report of the Foundation Trustees. The investments within the Second Century Fund are also overseen by the CSCE Foundation Trustees, with the available cash in the Second Century Fund used for CSCE working capital from time to time. The fund is kept whole in alignment with CSCE policy.

As I close out my two-year term as Honourary Treasurer, I am proud of the work we have done to stabilize the financial position of the society. I would like to thank CSCE national office staff, our executive leadership team, and volunteers throughout the society for everything you do. I would like to particularly acknowledge Patricia Ricci, our in-house accountant and financial expert, for her tremendous dedication and support.

**Brad Smid**

Honorary Treasurer

# Report of the CSCE Foundation

The CSCE Foundation is a registered charity whose purpose is “to acknowledge contributions of a civil engineering nature made by people for the benefit of society, and to recognize outstanding civil engineering works which have contributed to the development of Canada.” The CSCE Foundation includes the Canadian Society for Civil Engineering Foundation Trustees General Fund, the Shanley Award Fund, the History Program Fund, the Donald Jamieson Fellowship Fund and the Second Century Fund. Although the Foundation is independent of the Society, its financial statements are included for information in this Annual Report. The following table summarizes the financial position of the Foundation as of December 31, 2018.

CSCE Foundation Financial Position	Year			
	2015	2016	2017	2018
<b>Income</b>				
Interest, dividend income and valuation gains	\$7,852	\$19,120	\$15,069	(\$11,142)
Donations	\$7,246	\$8,778	\$11,795	\$11,386
<b>Expenses</b>				
Awards, administration, publications	\$4,499	\$1,818	\$11,818	\$4,397
<b>Net Change</b>	<b>\$10,599</b>	<b>\$26,080</b>	<b>\$15,046</b>	<b>(\$4,153)</b>
<b>Net Assets</b>				
Foundation Fund				
History Program Fund	\$5,118	\$5,569	\$6,211	\$5,698
Shanley Award Fund	\$13,207	\$14,365	\$14,979	\$15,101
General Fund	\$155,196	\$168,827	\$178,329	\$179,781
Donald Jamieson Fund	\$111,046	\$121,887	\$126,175	\$120,961
<b>Total Net Assets</b>	<b>\$284,567</b>	<b>\$310,648</b>	<b>\$325,695</b>	<b>\$321,541</b>
<b>Percent Growth from Previous Year (Net)</b>	<b>-3.1%</b>	<b>9.1%</b>	<b>4.8%</b>	<b>-1.3%</b>
<b>Second Century Fund</b>				
Assets	\$159,650	\$89,170	\$90,634	\$98,071
Percent Change from Previous Year	-	<b>-44.1%</b>	<b>1.6%</b>	<b>8.2%</b>

The Trustees have established immediate goals for the Foundation, going forward:

- Actively seek to grow the funds of the Foundation,
- Provide additional funds for member recognition through awards.

In 2018, to support the goal of growing the funds of the Foundation, the Trustees revised the Investment Policy, in consultation with RBC Dominion Securities. The investment objective of the CSCE Foundation is to earn a return of approximately 4% in excess of all administration costs, investment management fees and inflation. With this in mind, the target minimum rate of return required to meet these objectives is approximately 7%. In order to achieve the required rate of return the target asset allocation of the Portfolio should be: Cash – 5%, Fixed Income – 35%, Equities – 60%. As market conditions dictate, the asset allocation may be adjusted within the following ranges in order to manage risk and to accomplish the investment return objective of 7%.

Asset Class	Minimum	Target	Maximum
Cash	0	5	40
Fixed Income	20	35	50
Equity	50	60	70

Actions undertaken in 2018, with respect to the above noted goals include:

- Engaged with a wealth advisor from RBC Dominion Securities for ongoing fund management.
- Letter to Fellows of the Society encouraging them to donate to support the awards programme.

All members of the Society are urged to consider making donations to the Foundation for which official receipts will be issued for income tax purposes. Members are also encouraged to include bequests to the CSCE Foundation or to a specific award.

**Trustees (2017-18):** Michael Bartlett, London, ON  
 Daniel Burns, Calgary, AB  
 David Innes, Fredericton, NB  
 Randy Pickle, Oshawa, ON  
 Gordon Jin, St. John's NL (Chair, Honours and Fellows Committee)  
 Brad Smid, Edmonton, AB (Honourary Treasurer)  
 Patricia Ricci (CSCE Controller) (ex-officio)

**Randy Pickle, P.Eng., FCSCE, FEC, FEIC**  
 Senior Trustee, CSCE Foundation

# Report of the Vice President - Administration Coordinating Committee

Wade Zwicker, P.Eng., FCSCE

The Administration Coordinating Committee (ACC) consists of the Administration Vice President, the Honorary Treasurer and the Chairs of all the Committees reporting to the Administration Vice President: Communications, Conference, Corporate Engagement, National History, Honours & Fellowships, and Membership Services.

The ACC is responsible for the overall financial management of the Society, the delivery of services to the membership, as well as other duties assigned by the Board of Directors.

The following are the reports of each ACC Committee.

Submitted by Wade Zwicker, Vice-President, Administration Coordinating Committee

**Wade Zwicker**  
Vice President

## COMMUNICATIONS COMMITTEE

Chair: **Spencer Arbuckle**

The Communications Committee has historically focused on the overall growth of CSCE membership and retention of existing members, as well as raising awareness of the civil engineering profession. The committee has been partially responsible for marketing campaigns (e.g. CSCE Pin Campaign) and restoring/managing the CSCE social media platforms. With the collaboration of other committees, the committee is proud to be at the forefront of two of the society's strategic directions: (1) Enhanced Member Services, (2) Growing with Youth.

Since the inception of the CSCE HUB initiative, the Communications Committee has been heavily invested and a key proponent in its implementation. The idea of the HUB has drastically evolved over several preliminary brainstorming sessions, member feedback surveys, and technical conversations. The CSCE HUB has been the primary focus of the committee over the past year, with most efforts being focused on the preparation of the HUB launch at the 2019 Annual Conference.

The HUB is an online platform that will enable

CSCE members of all member type (e.g. student, corporate, fellow) to connect with each other. HUB features include individual profiles, group pages (regions, sections, companies, technical areas, etc.), instant messaging between members, integration of membership online account with HUB profile. These features will encourage the development of mutually beneficial professional relationships and, above all, add value to CSCE membership. The HUB has been tested by a small group prior to its release, but users are still expected to experience minor issues. All feedback, including software issues and desired additional features, is welcomed at 'support@csce.ca'.

Moving forward, the committee has several ambitious plans to improve the society as a whole and help it work toward its strategic directions. First, the committee itself needs to grow in order to effectively service the society. It will be a priority of the chair to fill the vacant positions (see below) within the committee. If this is accomplished, the committee will be able to provide more services to members and improve the communication with youth (i.e. student members). Another goal of the committee is to connect with members and develop a survey geared toward the society's communication (HUB, website, social media, E-Bulletin). A primary concern will be to review the CSCE E-Bulletin, with an overall goal of implementing the best possible medium to disseminate information to members. Finally, the committee will contribute significant efforts to maintaining the HUB and facilitating its improvements.

Composition of Communications Committee  
Dedicated committee members:

Spencer Arbuckle, Chair  
Max Midwinter

Collaboration with other committees and national office:

Stephanie Dalo (Chair, Membership Services Committee)  
Lyanne St. Jacques (Director, Marketing & Communications)  
Francois Viens (software developer consultant)

Open committee positions:  
Vice Chair

Social Media & HUB Moderation  
Team Member

## CONFERENCE COMMITTEE

2018 Annual Report

Chair: **Graham Sterpam**, P.Eng., FCSCE  
The purpose of the Conference Committee is to develop a Conference Strategy to provide more opportunities for interaction of members and future members through the development of Regional Symposiums and expanding the number of Technical Stand-Alone Conferences in addition to the Annual National Conference. These events are to bring added value to the CSCE membership.

The committee structure includes 14 members (Chair, VP ACC, each Region VP, VP Tech Divisions, VP Tech Programs, LOC Chairs, President – Elect and a National Office Rep).

Action Item – Review structure of Conference Committee

Action Item – Revise Committee size to suit the goals of the committee

Committee Responsibilities:

- To support the CSCE National Office Strategic Directions through the development and maintenance of a Regional Symposium and Stand-Alone Technical Conference Guideline
- The committee is to review and discuss the successes and failures of previous conferences to provide members a better conference experience.

Committee Initiatives Include:

- Provide input for the annual update to the National Conference Guidelines - An ongoing process of reviewing and updating the conference guidelines after each National Conference to better support the current Local Organizing Committee in the delivery of the conference program.

Action Item - LOC of the last 3

conferences to provide input to National Office for update.

- Creation of a Technical Stand-Alone Conference Guideline and Calendar - Develop a guideline similar to the National Conference Guideline to aid the promotion and delivery of Regional Symposiums and Technical Stand-Alone Conferences.

Action Item – After completion of the latest Conference Guideline update from National Office – create a Regional Symposium Guideline and Technical Stand-Alone Conference Guideline.

- Provide ongoing guidance to each Conference organizing committee by being available to discuss issues or concerns as they arise during the pre-conference organizing period. This would include ongoing communications with the previous organizing committees.

Action Item - Previous LOC's and National Office to provide input and guidance to the LOC's for current and future conferences.

#### Committee Activities In 2018

The Conference Committee participated in the following activities in 2018. Action items that were identified by the committee were escalated to the National Office for completion.

- Fredericton Conference – Follow up meeting
- 2018 Edmonton Section Symposium – Review of LOC and final reports.

#### Committee Plans For 2019

As National Office has responsibility of National Conference issues the Conference Committee will focus on further development of the Regional and Stand-Alone Technical One-Day Symposiums to provide further opportunity for member participation and membership growth.

Additionally, the committee will:

- Review and update definitions of the National, Regional and Technical Conferences.
- Continue to encourage the Regional and Technical Chairs to develop a program of Regional Symposiums and Stand Alone Technical Conferences to

augment the National Conference.

- Continue the development of the Stand-Alone Conference Guide for Regional and Technical Stand-Alone Conferences.

Additional issues identified and still needing actions include:

- Continue discussions on the development of the Regional Symposiums and Technical Stand-Alone conferences
- Development of an overall Regional Symposium Guide
- Coordination of CSCE Conferences with International Conferences
- Annual Conference Updates for 2019, 2020, 2021, 2022 by LOC Chairs each November

Chair: **Graham Sterparn**, P.Eng., FCSCE

#### NATIONAL HISTORY COMMITTEE

Annual Report 2018-19

Chair: **Michael Bartlett**, Ph.D., F.ACI, F.CSCE, F.IABSE, P.Eng.

The Committee includes members from BC, Alberta, Saskatchewan, Québec, Nova Scotia, New Brunswick and Ontario. Five regular Teleconference Meetings have been held throughout the year plus one at the Annual Conference. During the year, the Committee welcomed as new members Niel Van Engelen (Windsor), Nicholas Kaminski (Saskatoon), Linda Newton (Ottawa). Following the Committee's succession plan, in June 2018 Michael Bartlett assumed the role of Chair and Bruce Higgins the role of Secretary/Treasurer.

The Committee has been working with Frédéric Brunet of the Local Organizing Committee for the 2019 Montreal Conference on the Historic Site Commemorations for the William Collector and the Montréal Métro. Kevin Baskin and Peter Wright served on the task group to finalize the wording.

The identification and commemoration of National Historic Sites continues to be one of the Committee's principal activities. A successful ceremony was held at Western University to unveil the plaque commemorating the Boundary Layer Wind Tunnel Laboratory as a joint

CSCE/ASCE International Historic Site on April 4th. Monitors have been assigned to visit and report on the condition of the 77 existing historic plaques. At least three have never existed (Lethbridge Viaduct, Bridges of Niagara, Upper Middle Road Bridge), one has been lost (Centre Street Bridge), one has been stolen (Ottawa River Canals) and three are expected to be erected this summer (Blackfriars Bridge, Egerton Sewer, William L. Barrett Water Treatment Plant). Most of the rest are in fair-to-good shape.

A new category of National Historic Site has been created, the Civil Engineering Heritage Demonstration Site, to "commemorate recent facilities constructed using historic techniques and so may have contributed to the maintenance or reintroduction of historic crafts". Our first such site is a bridge constructed to mark the 200th anniversary of the Town of Perth Ontario, constructed entirely using dry-stone techniques, without requiring mortar or cement. A plaque was presented by NHC member Al Perks at a December meeting of the Perth Town Council, that now hangs in the municipal offices there. Very positive local news coverage was generated.

A nomination was prepared to support the awarding of the 2019 W. Gordon Plewes Award to a deserving recipient. It has been forwarded to the Honours and Fellowships committee for consideration.

A new Task Force, consisting of James Garland, Peter Langan and Alistair MacKenzie has worked with Catherine Davidson, University Librarian at the Library of the University of Ontario Institute of Technology (UOIT) to update the Memorandum of Understanding that would have the UOIT Library serve as the repository of CSCE archival material. The proposed MOU has been endorsed by the National History Committee and forwarded to the Administration Co-ordination Committee for approval and submission to the CSCE Board.

The History Committee Website, [www.cscehistory.ca](http://www.cscehistory.ca), was re-activated in 2017 with financial support from the History Program Fund of the CSCE Foundation. Work continues on upgrading and adding to the material which it presently contains. A template for the Historic Site webpages has been developed

to standardize the way in which the material about each site is presented. Preliminary discussions are under way to host the History Committee Website with the other CSCE web materials.

Funding of \$7500 from the CSCE Foundation Fund and the History Program Fund has been approved to hire a Master of Arts in Public History Intern, Louisa Orford, to support activities of the National History Committee this summer. Her responsibilities will include: reviewing and cataloging archival information; assisting with revisions to the online descriptions of the CSCE Historic Sites; and, developing criteria to conduct oral history interviews of eminent civil engineers. Additional matching funding of \$7500 from Mitacs has been applied for, to increase the stipend to the intern and also allow the recovery of a few research-related expenses.

The ICE/ASCE/CSCE Triennial Conference in London, England included a commemoration ceremony recognizing the 200th anniversary of the founding of the ICE. A plaque was unveiled, to be mounted on the ICE Headquarters building, which includes the logos of ICE, ASCE and CSCE. Mike Bartlett gave a short presentation “Canada’s Sustainable Future is Built upon our Historic Civil Engineering Achievements” at a well-attended history session there.

The Sesquicentennial History Display material, created for Canada’s sesquicentennial in 2017 and exhibited at the 2018 Annual Conference in Fredericton, has since been displayed at the Engineering Library at the University of New Brunswick in November and at the APEGNB Annual Conference in February. The display material will be shipped to Montreal for display at the 2019 Annual Conference at Laval.

The Committee wishes to express its thanks for the Society’s financial contribution to the History Program and also notes that contributions continued to be received throughout the year to the History Program Fund within the CSCE Foundation.

In closing, I would like to pay tribute to all Committee members who, over many years, have been enthusiastic and outstanding contributors to the success of the committee.

Respectfully submitted,  
Chair: **Michael Bartlett**, Ph.D., F.ACI, F.CSCE, F.IABSE, P.Eng.

## **HONOURS AND FELLOWSHIPS COMMITTEE**

Annual Report 2018-19

**Gordon Jin**, P.Eng., FCSCE, FEC, FEIC  
Chair

The Honours and Fellowships Committee is responsible for the review and processing of nomination packages for the recognition of eligible members of the Society for Fellowships in the CSCE and through various selection committees, that report directly to the Honours and Fellowships Committee, identifies the recipients of up to nine career awards, two organizational awards, one graduate student fellowship, one Young Professional Award and five ‘Best Paper’ awards. The Honours and Fellowships Committee is also responsible for organizing and conducting the awards ceremony at the CSCE Annual Conference.

The membership of the Honours and Fellowships Committee also increased in 2018 with Dr. Nihar Biswas becoming a member of the committee in the role of Best Paper Coordinator.

At the Awards for Civil Engineering Excellence Gala, in June 2019 in Laval, Quebec, ten (10) members of CSCE will be awarded the status of Fellow, the winner of the Donald Jamieson Fellowship plus various Best Paper Awards will be announced, and five members will be recognized for contributions to CSCE and/or the profession. The Honours and Fellowships Committee is overseeing the Excellence in Innovation in Civil Engineering Award, the Award for Government Leadership in Sustainable Infrastructure and the Young Professionals Award on a Regional level, and then the winners will compete for the national title, with the winners to be announced at the CSCE Annual Conference during the Civil Engineering Excellence Gala.

The Honours and Fellowships Committee is also responsible for a high level review of the nominations for Fellowships and other

senior awards of the Engineering Institute of Canada (EIC). At the EIC Awards Gala held in Gatineau, Quebec in March 2019, five members of CSCE were accorded EIC Fellowships.

The Honours and Fellowships Committee continues to monitor the nominations for Fellow and the various career awards, to mitigate deficiencies in the diversification and to ensure that nominations better represent the demographics of the Society.

Respectfully submitted  
**Gordon Jin**, P.Eng., FCSCE, FEC, FEIC  
Chair

## **Member Services, Report from National Office**

**Lyanne St. Jacques**, Director, Marketing & Communications

The main focus over the last twelve months was to improve communications with members for the following reasons:

- Clarify and improve understanding of the member benefits
- Clarify the CSCE brand, purpose and goals
- To increase a sense of community and support

In order to do the above, the following has been started and is targeted for a first release starting in May and going through to end of summer 2019.

## **MEMBER BENEFITS**

- A complete overhaul of the member benefits document. This piece is current available on the website and included in all new member kits. This document is complete and will start to be circulated this May.
- A CSCE promotion brochure has been started and will be available to start circulation at the CSCE booth at the 2019 Annual Conference in June of 2019. This document speaks more to the way in which CSCE can help members achieve their goals and expose them to opportunities, whereas the benefit document simply itemizes the benefits that we offer.
- A complete overhaul, including content, structure, user experience and brand will be done to the

CSCE.CA website, making it easier for members to navigate our site and find the information they are looking for.

- Efforts are being made as well to make it easier for members to find the sectional websites with local event information through the main CSCE site.
- A survey was circulated in the CSCE E-bulletin in late fall of 2018 to gather information about where people go to get information about CSCE and what type of information they want from us. Although results were slim, the net showed that people primarily go to our website for info and they are mainly seeking technical content.
- A graduated effort is being made to include more CSCE related content on all of the CSCE platforms. Starting with the President's letter, we are making more of an effort to talk about what CSCE is doing within the different technical disciplines as well as what is being done to improve member services. We are also being more conscious of including CSCE specific content in the e-bulletin, CIVIL magazine and on all social media platforms. No longer will be just be talking about technical issues and potential ways to mitigate them, but we are slowly trying to influence people to make sure to include how this is relevant to CSCE and how being a member gives you exposure to high levels of expertise, but to show members that we have the platforms to help bring their ideas to fruition.
- Extensive work is being done and will be release on the website in the late summer of 2019 to show the member journey. This will expand on our understanding of why people become members and ow we understand that they are looking for support in achieving their professional and personal goals. It will further elaborate on why are benefits are an imperative part of this process, and our member guide will take them through the process one step at a time.

## **CSCE BRAND, PURPOSE AND GOALS**

- In order to help our members

understand who we are and what we do, we must strengthen the CSCE brand. But first, it was essential to first clarify the current state of the brand before moving forward. After a quick review it was clear that from an outside perspective, there was no singular brand. All sections and committees were working independently to develop recognition and promote the purpose of CSCE – this is not necessarily a bad thing, but would be much more effective to have us all pushing the same look and message. Shortly after this was communicated at the Board meeting in November of 2018, new logos and brand materials were supplied to all sections and committees. Efforts are still being made to have these visual updates completed across all platforms.

- Branded templates available to CSCE members include:

- o Power Point Presentation
- o Letterhead
- o Pocket Folders
- o Benefits Document – printable from the website
- o CSCE Brochure
- o Posters – for events
- o Email Headers
- o Pens
- o Lapel Pins
- o Other, per request

- Further to these visual updates, the brand message that we are trying to convey must be clarified and shared by all members of CSCE if we are to strengthen the reputation that we want to have in the industry. Much of this will become clearer as we update the content on our website and plat forms to show members how we understand that they are counting on us to help them accomplish their goals. The purpose of CSCE, the reason for the very being of this Society to support Civil Engineers which will enable them to maintain a high standard of practice, which in turn will elevate the perception that people have of this profession.

- The goals of CSCE, while they are always listed on our website under “Strategic Directions”, are due for updating in early 2020. Once these

new directives are available, more effort will be made to show how CSCE is actively working towards achieving these objectives. We also, as always, are very open to gathering feedback from members as to what they would like to see CSCE doing and how this will help to improve their involvement with the Society, and of course in turn, their loyalty and recommendation for others to join our community.

- A last comment here is that we will be working with all sections and technical divisions of CSCE to try to put the humbleness of our experts aside. It is quite a misfortune to know that we have much expertise in our Society that goes more often than not, unrecognized for the simple fact that we are too humble as a group. It is not a secret that the need for expertise in the Civil Engineering industry is ever increasing and it is often spoken of on the news that there is a severe lack for man power to fulfill the demand – although perhaps the truth is that they are simply unaware of the supply. And moreover, it is a common Canadian fault to be modest and unassuming in the need for our expertise and support, not only here at home, but across the globe. We must commit to changing the way we talk about what we to help promote our expertise within our Society, within Canada and anywhere else it is needed.

## **COMMUNITY AND SUPPORT**

- A society is a means to bring people together for a common purpose. Unfortunately, over time we unintentionally get caught up in our own bubble of work and lose sight of the fact that we are part of a larger group. And although, our targeted groups of experts are able to support members who are looking to be among those who share common goals and ideas, it's important that we find ways to come together as a collective. We are making great strides this year to make this happen.
- o We are proud to say that the launch of the CSCE Hub will be happening this May. After years of planning and fine-tuning we are launch the Hub in

a first phase as a library where our members can share their technical content and discuss it in the newsfeed so that members can like, share and spark new ideas. If the use of the Hub grows rapidly, we will continue to add features to increase its use.

- o Our Corporate Representative has launched a new campaign that will support cross-promotions between individual and corporate members. Events are being coordinated with existing schedules across all sections to communicate this opportunity to all members. Preferred rates are being offered to individuals who bring in corporate members and conversely, discounts are being offered to additional members brought in by corporate partners.
- o Finally, we will make more of an effort to listen to our members and include them as we continue to grow our touch points. We invite them as always to share their ideas with CSCE and we hope to continue to find new and better ways to allow our members to network, take advantage of our platforms and events and support each other as part of our community that is more than 30 countries strong.

# Report of the Vice-President, Program Coordinating Committee – Technical Divisions and Committees

## Structures Division

Chair: **Ashraf El Damatty**, F.CSCE, FEIC

The Structures division has 89 active members and 10 technical committees. In 2018, the division was involved in the organization of two international conferences. This is in addition to the various activities conducted by the committees as reported below.

**ACM Committee:** The 8th International Conference on Advances of Composite Materials in Bridges and Structures (ACMBS) will be held in Sherbrooke in 2022. Dr. Benmokrane will chair this conference.

**Buried Structures committee:** The committee is currently working on a Special Issue on Buried Structures to be published in the Canadian Journal of Civil Engineering (CJCE).

**Concrete Structures committee:** The committee is currently working on a Special Issue on Concrete Structures to be published in the Canadian Journal of Civil Engineering (CJCE).

**Fire Behaviour and Safety of Structures Committee:** The committee's goal is to expand the breadth of current Fire Safety Engineering activities in Canada. Committee members largely were involved in organisation, fundraising, and peer review of the 2018 workshop on the 100 year anniversary for the standard fire. The workshop raised 15,000 USD in sponsorship with attendance of nearly 200 people. Canadian participation was seen as the driver for its success.

**Industry Liaisons Committee:** The committee contacted many companies and consultants involved in structural engineering activities Canada wide. It received very positive responses from more than ten companies and consultant offices. The main objective of the committee is to increase the interaction between academia and industry. The Industry Committee wants to establish an internal email newsletter to be distributed to the Division's member, which would enhance the link between the academia and the industry in the field of Structural Engineering. The goal that the Division acts as a mean for exchange of knowledge and

information between the academia and the industry in the Structural Engineering field so both can benefit.

**Masonry Structures Committee:** The committee is in continuous collaboration with the Canada Masonry Design Centre (CMDCC), the Canadian Concrete Masonry Producers Associate (CCMPA), and the various provincial masonry contractors' associations towards coordinating the research conducted in the Canadian Universities. This is in addition to working on the development of the CSA S304 "Design of masonry structures" standard to address the needs for the masonry construction and engineering industries.

**Structural Dynamics:** The committee organized a number of sessions in 2018 CSCE conference.

**Wood Structures Committee:** The wood structures committee members are actively engaged with the wood industry to promote the latest technology in practice. A number of members are involved in updating the CSA O86: Engineering design in Wood. Members are also involved in Wood Education curriculum development initiative of the Canadian Wood Council. The Committee is involved in organizing sessions on Wood Structures at the CSCE annual conference.

**8th Structural Speciality Conference, Fredericton, June 2018:**

The division was involved in the organization of the 8th Structural Speciality Conference hold in Fredericton, NB, in June 2018. The conference was co-chaired by Dr. Arjomandi and Dr. El Damatty. A total of 99 papers were included in the conference proceeding.

**10th SMSB-2018 Conference:**

The International Conference for Short and Medium Span Bridges (SMSB-2018) was co-chaired by Dr. Adel Zaki, the Chair of the Division Bridge Committee. The conference that took place in Quebec City July 31st - August 3rd, 2018 was a big success with more delegate than ever before. About 500 guests attended the Conference from 30 countries. A series of Short Courses were provided at the conference

Short and Medium Span Conference SMSB- XI, 2022:

The division recommended Toronto as the location of the SMSB- XI, 2022 conference

Chair: **Ashraf El Damatty**

## Hydrotechnical Division

Chair: **Dr. Kerry Mazurek**

The major activity of the Hydrotechnical Division since its last report was preparation for the 24th Canadian Hydrotechnical Conference held in conjunction with 2019 Annual General Meeting in Laval, Quebec. At the conference, there were only approximately 31 papers presented. We believe that the lower number of paper submissions this year is this is associated with other venues being set up for graduate student presentations with substantially lower costs associated with attendance. It is therefore felt that the Division must focus on attracting professional members to its activities.

A large number of the papers submitted to the Hydrotechnical Speciality conference were associated with prediction of climate change (rainfall and flows) and the development of the associated adaptation by municipalities. The Hydrotechnical Division also arranged for a climate change discussion panel to be part of the main conference. It is the plan of the division to attempt to become the home of discussions of climate change adaptation, by continuing this emphasis on its activities.

A focus for the upcoming year will be the reinvigorating the Hydrotechnical Division with inclusion of new members on the Council and refocusing and planning of activities that can reach a maximum number of members across the country.

Chair: **Dr. Kerry Mazurek**

## Engineering Mechanics and Materials (EMM) Division

Chair: **Dr. Shahria Alam**, P.Eng.



The mission of Engineering Mechanics and Materials Division is to contribute to maintaining high standards of the civil engineering profession through promoting the exchange of knowledge between researchers and engineering professionals working in the area of engineering mechanics and materials. In line with CSCE's Strategic Direction, Leadership in Sustainable Infrastructure, the division promotes exchanging new initiatives and ideas pertaining to sustainable materials. Serving a dynamic and evolving area of civil engineering, the members of the Division use various avenues to share their expertise and findings with the engineering profession in Canada. Within its mission, the major activities of the Division include: (i) organize international specialty conferences in the area of engineering mechanics/materials, (ii) develop and offer short courses covering specialized topics, (iii) disseminate and share knowledge through guest editing special issues of the Canadian Civil Engineer Magazine, (iv) promote collaboration between researchers at the national and international levels, and (v) enhance the engagement of young engineers and engineering students through poster and paper presentations during the specialty conferences.

Secretary of EMM Division Announced: Dr. Muntasir Billah, Assistant Professor in the Department of Civil Engineering at Lakehead University has agreed to serve as the Secretary of EMM division of CSCE. EMM division has already introduced several sub-committees and their corresponding leads earlier to further increase its activities and make substantial contributions to the engineering profession and to the society.

CSCE EMM Conference: The Division is actively working towards organizing the 7th International Conference on Engineering Mechanics and Materials (2019 CSCE Annual Conference), to be held in Laval, Greater Montreal, QC Canada, June 12-15, 2019. As a part of this conference, the Division is organizing a special session and panel discussion on "Hybrid Structures with Wood", featuring 3 to 4 experts including academics and practicing engineers. Furthermore, the EMM Division is inviting two keynote speakers to make presentations at the conference.

Speaker 1: Professor Constantin Christopoulos,

NSERC Research Chair, University of Toronto, Title: "Why we should be building more resilient infrastructure and how to do it?"

Speaker 2: Marcel Martineau Eng. M.Sc. A., Geotechnical and material engineer, SNC Lavalin- Infrastructure construction, Title: "Properties and performance of the materials used in the construction of the Samuel de Champlain Bridge"

Note that EMM Division is now the champion of specialty conferences occurring every year at the CSCE Annual Conference. The conferences alternate between Engineering Mechanics and Materials, and Materials only. The latter was initiated at the 2016 Annual Conference.

Chair: **Dr. Shahria Alam**, PEng.

#### **Construction Division**

Chair: **Dr. Adel Francis**, ing, FCSCE

This year, three of our members, Osama Moselhi, Tarek Zayed and Amin Hammad, are conference technical chair and co-chairs of the 7th International construction conference (ICC-CSCE 2019) jointly with the construction research congress (CRC 2019). Sara Rankohi and Mohamed Issa are the co-chair of the Student colloquium for the CSCE2019 in Laval. Farnaz Sadeghpour is chairing the CSCE Technical Publications Committee, which is responsible for the standardization of the CSCE conference documentation and proceedings guidelines and the indexing of existing and future CSCE conferences. Adel Francis has updated the division's website, including the organization chart, the member list and an interactive Google map for members and their affiliates.

The division also awarded two community services appreciation awards to Farnaz Sadeghpour and Linda Newton, Past Chair and Co-Chair of the Division, in recognition of their leadership and many contributions to the CSCE Construction Division Committee.

A committee chaired by Simaan Abourizk and composed by Aminah Robinson and Adel Francis was formed to select the recipient of the Alan Russell Award. An award established

by the Construction Division since 2013. This committee has chosen Professor Carl Haas of Waterloo as the recipient of the 2019 Award.

The division also created a new Award for the best construction conference paper on the name of Moselhi, a professor at Concordia University. This Award will be given for the first time during the 7th International construction conference (ICC-CSCE 2019).

In addition to our general meeting during the CSCE 2018 conference in Fredericton, we also had an informal meeting this year during the CRC 2018 congress in New Orleans. During the CRC 2018 conference, on behalf of the division, Mohamed Al-Hussein made a presentation to invite the CRC members to join CSCE 2019. Adel Francis officially invited the CRC to join the 2019 International Construction Specialty Conference (ICSC), a part of the CSCE annual conference in Montreal.

Chair: **Dr. Adel Francis**, ing, FCSCE

#### **Environmental Division**

Chair: **Dr. Kelvin T. W. Ng**, PEng

Waste Management was approved as one of the themes of the 2018 CIVIL magazine. Three technical papers and a case study on waste management systems and landfill technology were selected and published in the Fall issue.

The electronic mailing list of the Division has been updated. Messages regarding conferences and job advertisements have been circulated to our members using the updated list.

Catherine Mulligan organized the 18th Global Joint Seminar on Geo-Environmental Engineering (GEE 2019) at Concordia. The event notices were circulated to our division members using the new electronic mailing list. The international seminar was well-attended by engineers and researchers.

A student team at Regina has won one of the 2019 RCE Saskatchewan Recognition Awards for Education for Sustainability. The title of the Project is "Utilizing Landfill Waste Heat as a Heat Source for a City of Regina Facility" by Nicole Cripps, Brady Eurich, Brett Thomas, and Kelvin T. W. Ng.

The Environmental division has been involved in the review process and the organization of the 2019 Laval Environmental Specialty Conference. The Specialty Conference is co-chaired by Catherine Mulligan and Kelvin T. W. Ng. Over 35 presentations and a keynote session are scheduled.

Chair: **Dr. Kelvin T. W. Ng**, PEng

# Report of the Vice President, Program Coordinating Committee Technical Programs

Dr Gord Lovegrove, P.Eng. (Civil, BC), MBA, PhD

It is my honor to have served CSCE this past year in capacity as VP – Technical Programs, mostly because my job was made easy by the great support from CSCE HQ, and from Chairs of each reporting committee, thank you all. My goals for this first year included:

1. Filling vacant chairs and revitalizing committees (see annual reports below)
2. Addressing emerging CSCE technical issues, including:
  - a. Assessing whether or not, and if so how, to adopt ISI's Envision software as CSCE Best-Practise towards more sustainable infrastructure engineering (workshop at AGM)
  - b. Supporting the President's Task Force on Accessibility (workshop at AGM)
  - c. Recruitment of Indigenous youth recruitment into civil engineering (see CIVIL article)
3. I welcome your comments and help if any of these goals / committees appeal to you, all the best in the coming year!

## Technical Team Leads

Chair, Engineering Practice Committee

**Mark Scanlon**

Chair, Education and Research Committee

**Elena Dragomirescu**

Chair, Asset Management Committee

**Mike Benson**

Chair, Technical Publications Committee

**Farnaz Sadeghpour**

Editor, Canadian Journal for Civil Engineering

**Nihar Biswas**

National Learning Training NLT

Coordinator **James Garland**

## Annual Reports for each Technical Team

### Engineering Practise Committee

Nothing reported, being revitalized

### Education and Research Committee

Nothing reported, being revitalized

### Asset Management Committee

Nothing reported, being revitalized

### Members: Mike Benson (chair), Nick Larson, Brandon Searle, Susan Jacobs

The Asset Management Committee (AMC), formerly known as the Infrastructure Renewal Committee (IRC), serves as a leader and steward of asset management planning for CSCE members. The Asset Management Committee was revitalized in 2018, with a new executive team who have actively been partnering with organizations across Canada to help advance the state of asset management planning. The AMC attempts to meet bi-monthly.

Key activities which have progressed over the past 12 months include:

1. Canadian Infrastructure Report Card (CIRC) - a prominent Canadian publication that provides Canadian infrastructure stakeholders with objective facts on the state of municipal infrastructure and the state of Asset Management practices in Canada. The first two iterations of CIRC were published in 2012 and 2016, respectively, thanks in large part to CSCE members who were instrumental in the development of the reports. CSCE has approved a \$10,000 financial commitment to the development of the CIRC. The CIRC committee estimates it would only require a \$5,000 contribution from the CSCE. FCM is currently preparing an MOU to be signed by each partner organization.

2. The Canadian Network of Asset

Managers (CNAM) has been retained by the Federation of Canadian Municipalities (FCM) to develop and deliver an AM competency framework. The framework is intended to provide Canadian municipalities with a deeper understanding of the skills required for asset managers and municipal staff to implement asset management planning programs in their communities. CNAM has engaged with various partner organizations to assist in the development and review of this framework. Working together with the CSCE's Heads and Chairs Committee, the AM Committee has coordinated several CSCE volunteers to engage in the framework's development. This work has been on-going for several months has largely been a success. CNAM has prepared a Memorandum of Understanding (MOU) to establish the arrangement between partner organizations and CNAM in the development and delivery of the framework knowledge product. The MOU is currently being reviewed by the Board.

3. CSCE Governmental Leadership in Sustainable Infrastructure Award - The Asset Management Committee (formerly known as the Infrastructure Sustainable Committee) is responsible to award the CSCE's Governmental Leadership in Sustainable Infrastructure award. The committee recently selected the top project of this year. Results will be presented at the annual conference in Laval.

## Technical Publications Committee

**Membership: Adel Francis, Jeff Rankin, Ahmad Jade, Linda Newton, Qiuyuan**

**Yuan, Haibo Niu, Mike Bartlett** (Ex-officio), **Medhat Shehata, Sadegh Kazemi.**

The goal of the Technical Program Committee is to develop strategies and activities to improve members' opportunities to publish and access research material. This committee has been actively working towards these goals. The focus of activities and tasks for this year has been to:

1. Continue to develop and implement a CSCE Proceedings archive that will provide access for all members and public access for past proceedings for years 2013, 2014, 2016 & 2017, and support the indexing of CSCE conference (new and past) proceedings in Google Scholar; and
2. Revise CSCE Conference Publication Guidelines.

The Canadian Journal for Civil Engineering (CJCE)

Published since 1974, the CJCE is the official journal of the CSCE and the only journal presently affiliated with the CSCE. The CJCE is published by the not-for-profit company, Canadian Science Publishing (CSP), located at 65 Auriga Drive, Suite 203, Ottawa, ON K2E 7W6 (<http://www.nrcresearchpress.com>). All CSCE members may subscribe to the electronic and print versions of the CJCE to CSCE members at rates substantially below non-member subscription rates. The CJCE attracts over 800 manuscript submissions per year, with less than half coming from Canada. Approximately, the rate of acceptance is 20%. The CJCE Editors, Dr. Amir Fam and Dr. Nihar Biswas, are grateful for the tremendous support received from the Associate Editors, Assistant Editor, Ms. Brenda Tryhuba, Managing Editor, Dr. Michael Donaldson, the staff at CSP, and the reviewers, whose hard work helps in maintaining a very high standard of the journal.

National Leadership Training (NLT)  
**James Garland**

National Lecture Tours (NLT's) are a vehicle for sharing technical information of

interest to civil engineers with CSCE members across Canada. These are often in the form of a lunch or dinner lecture presented to Section Meetings. The topics are selected in consultation with Sections regarding interests and Technical Divisions and other expert groups regarding available speakers. Following the very successful 2017-2018 NLT on the Lac-Mégantic train derailment, fire and environmental spill. Lac-Mégantic's Human and Environmental Disaster: The event, the impacts and the lessons to be learned was presented to 18 CSCE Sections across Canada by Senator Prof. R. Galvez, Ph.D., P.Eng.

Planning is now underway for the next CSCE National Lecture Tour, which is to discuss Climate Change: Current Issues for Civil Engineers. Originally intended to be presented in 2018-2019, we have had to shift it to 2019-2020 to allow additional time to develop the technical content for this very topical NLT.

NLT's align directly with Strategic Direction 1 – Enhanced Services to Members. Expanding delivery to use web-based sharing and ensuring that Student Chapters have an opportunity to participate when NLTs' travel across the country, provides services aligned with Strategic Direction 2 – Growing with Youth. Strategic Direction 3 – Leadership in Sustainable Infrastructure can be supported when NLT topics are chosen.

Members are encouraged to contact the NLT Coordinator, James Garland, or the CSCE National Office to provide suggestions for topics and speakers.

International Affairs – Reporting to the VP International since 2016

# Report of the CSCE Nominating Committee (2019–2020)

The Nominating Committee of the Board of Directors of the Canadian Society for Civil Engineering has provided, for approval by the members, the following nominations to the Board of Directors.

Position	Incumbent	Proposed	Term
President	Hewus, end of term	Michel Khouday	1 yr
President-Elect	Khouday, end of term	Catherine Mulligan	1 yr
Senior Vice-President and Chair, Regional Coordinating Committee	Mulligan, end of term	Brenda McCabe	1 yr
Past President	Tighe, end of term	Glenn Hewus	1 yr
Honorary Treasurer	Smid, finishing 2nd yr	Glenn Hewus	2 yrs
Vice-President, Administration Coordinating Committee	Zwicker, finishing 4th yr	Wade Zwicker	1 yr
Vice-President, Technical Divisions and Committees	Achari, finishing 4th yr	Gopal Achari	1 yr
Vice-President Technical Programs	Lovegrove, finishing 1st yr	Gord Lovegrove	1 yr
Vice-President, Atlantic Region	Richard, finishing 2nd yr	Samuel Richard	2 yrs
Vice-President, Quebec Region	Brunet, finishing 2nd yr	Frédéric Brunet	2 yrs
Vice-President, Ontario Region	Calcetas, finishing 1st yr	Peter Calcetas	1 yr
Vice-President, Prairie Region	Hnatiuk, finishing 3rd yr	Vaibhav Banthia	2 yrs
Vice-President, Western Region	Sun, finishing 1st yr	Min Sun	1 yr
Vice-President, International Region	Chen, finishing 1st yr	Bing Chen	1 yr
Member at Large representing Corporate Members	Langan, finishing 3rd yr	Peter Langan	1 yr
Member at Large representing Heads and Chairs	Rankin, finishing 2nd yr	Dan Palermo	2 yrs

In addition to the above elected Director positions, which are voting positions on the Board, there is one non-voting position on the Board appointed by others:

Representative - Canadian Geotechnical Society (non-voting)	Wijewickreme, finishing 1st yr	Mario Ruel	1 yr
---	--------------------------------	------------	------

The Chairs of the Divisions, Committees and Programs of CSCE are also elected or re-elected by the members of the Divisions, Committees and Programs, as follows:

## REPORTING TO SENIOR VICE PRESIDENT

Chair, Student Affairs Committee	Annan, finishing 6th yr	Charles–Darwin Annan	1 yr
Chair, Young Professionals Group	Kaminski, finishing 2nd yr	Nicholas Kaminski	1 yr

## REPORTING TO VICE PRESIDENT, INTERNATIONAL

International Affairs Committee	Gupta, finishing 5th yr	Jeanne Huang	1 yr
---------------------------------	-------------------------	--------------	------

## ADMINISTRATION COORDINATING COMMITTEE

Chair, Communications Committee	Arbuckle, finishing 1st yr	Spencer Arbuckle	1 yr
Chair, Conference Committee	Sterparn, finishing 4th yr	Graham Sterparn	1 yr
Chair, Corporate Engagement Committee	Gilliland, finishing 1st yr	To be determined	TBD
Chair, National History Committee	Bartlett, finishing 1st yr	Mike Bartlett	1 yr
Chair, Honours and Fellowships Committee	Jin, finishing 2nd yr	Gordon Jin	2 yrs
Chair, Membership Services Committee	Dalo, finishing 3rd yr	Stephanie Dalo	1 yr

## PROGRAMS COORDINATING COMMITTEE

### Technical Divisions & Committees

Chair, Cold Regions Division	Follett, finishing 3rd yr	Matthew Follett	1 yr
Chair, Construction Division	Francis, finishing 2nd yr	Adel Francis	1 yr
Chair, Engineering Management Committee	Katsanis, finishing 5th yr	Constantine Katsanis	1 yr
Chair, Engineering Mechanics/Materials Division	Alam, finishing 3rd yr	Shahria Alam	1 yr
Chair, Environmental Division	Ng, finishing 1st yr	Kelvin Ng	1 yr
Chair, Hydrotechnical Division	Mazurek, finishing 4th yr	Kerry Mazurek	1 yr
Chair, Innovation and IT Committee	Akhras, finishing 5th yr	George Akhras	1 yr
Chair, Structures Division	El Damatty, finishing 4th yr	Ashraf El Damatty	1 yr
Chair, Sustainable Development Committee	Lovegrove, finishing 2nd yr	Kerry Black	1 yr
Chair, Transportation Division	Qiu, finishing 5th yr	To be determined	TBD

### Technical Programs

Chair, Engineering Practice Committee	Scanlon, finishing 2nd yr	To be determined	TBD
Chair, Education and Research Committee	Dragomirescu, finishing 5th yr	To be determined	TBD
Chair, Infrastructure Renewal Committee	Félio, finishing 2nd yr	To be determined	TBD
Chair, Technical Publications Committee	Sadeghour, finishing 1st yr	Farnaz Sadeghpour	1 yr
Editor, CJCE	Biswas, finishing 4rd yr	Nihar Biswas	1 yr
NLT Coordinator	Garland, finishing 5th yr	James Garland	1 yr

# Membership Statistics – 2018

## Comparative Statistics Comparative

Comparative	Count
Fellow	161
Member (Corp, US & Intl, New)	1112
Associate Member (1-4)	86
Technical/Professional Affiliate	11
Technologist (1st +)	5
Retired Member	8
<b>SUB TOTAL - FULL PAYING MEMBERS</b>	<b>1383</b>
<b>GRAND TOTAL</b>	<b>6358</b>
Comparative	Count
Life Member	215
Fellow Life Member	11
Fellow Retired Member	16
Associate Member (0 Year)	1060
<b>SUB TOTAL - MISC</b>	<b>1302</b>
Student	3673
<b>GRAND TOTAL</b>	<b>6358</b>

## Regions Statistics Regions

Regions	Count
Atlantic	478
Ontario	2174
Prairie	362
Quebec	1441
Western	1656
<b>SUB TOTAL - CDN</b>	<b>6111</b>
Foreign	247
<b>GRAND TOTAL</b>	<b>6358</b>

## Membership Statistics Membership

Membership	Count
Membership - Member	959
Membership - Life Member	215
Membership - Fellow	161
Membership - Retired Member	8
Membership - Student Member	3673
Membership - Associate Member (0 Year)	1060
Membership - Associate Member (1st Year)	26
Membership - Associate Member (2nd Year)	17
Membership - Associate Member (3rd Year)	18
Membership - Associate Member (4th Year)	25
Membership - Fellow Life Member	11
Membership - Fellow Retired Member	16
Membership - Affiliate Member	11
Membership - Technologist Member	5
Membership - Corporate Member	101
Membership - Corporate Associate	1
Membership - Corporate Fellow	3
Membership - Sustaining	48
<b>Grand Total</b>	<b>6358</b>
Membership	Count
<b>SUB TOTAL - CDN</b>	<b>6111</b>
TOTAL Foreign & US	247
<b>Grand Total</b>	<b>6358</b>

## Sustaining Members—Civil Engineering Departments Membres de soutien—départements de génie civil

### Maritimes

Dalhousie University  
Memorial University of Newfoundland  
Université de Moncton  
University of New Brunswick

### Québec

Concordia University  
École polytechnique de Montréal  
École de technologie supérieure  
Université Laval  
McGill University  
Université de Sherbrooke

### Ontario

Carleton University  
University of Guelph  
Lakehead University  
McMaster University  
University of Ottawa  
Queen's University  
Royal Military College of Canada  
Ryerson University  
University of Toronto  
University of Waterloo  
University of Western Ontario  
University of Windsor  
York University

### Prairies

University of Manitoba  
University of Regina – Institute for Energy,  
Environment and Sustainable Communities  
University of Saskatchewan

### West / Ouest

University of Alberta  
British Columbia Institute of Technology  
University of British Columbia  
University of British Columbia – Okanagan  
University of Calgary

### Institutional Members – International / Membres institutionnels internationaux

Nankai University  
Zhengzhou University

Canadian Society for  
Civil Engineering



Société canadienne  
de génie civil

**THE CANADIAN SOCIETY FOR CIVIL ENGINEERING**

**FINANCIAL STATEMENTS**

**FOR THE YEAR ENDED DECEMBER 31, 2018**



---

## CONTENTS

---

	<b>PAGE</b>
Independent Auditor's Report	1 - 3
Financial Statements	
Statement of Financial Position	4
Statement of Second Century Fund and Unrestricted	5
Statement of Revenues and Expenditures	6
Statement of Cash Flows	7
Notes to the Financial Statements	8 - 13

**Baker Tilly Montréal S.E.N.C.R.L. / LLP**

606, rue Cathcart, Bureau 200  
Montréal, QC  
Canada H3B 1K9

**Tél:** 514.866.8553

**Télééc:** 514.866.8469

montréal@bakertilly.ca

**www.bakertilly.ca**

---

## INDEPENDENT AUDITOR'S REPORT

---

To the Members of  
**The Canadian Society for Civil Engineering**

### *Opinion*

We have audited the financial statements of **The Canadian Society for Civil Engineering**, which comprise the statement of financial position as at December 31, 2018, and the statements of second century fund and unrestricted, revenues and expenditures and cash flows for the year then ended, and notes to the financial statements, including a summary of significant accounting policies.

In our opinion, the accompanying financial statements present fairly, in all material respects, the financial position of the organization as at December 31, 2018, and its results of its operations and its cash flows for the year then ended in accordance with Canadian accounting standards for not-for-profit organizations.

### *Basis for Opinion*

We conducted our audit in accordance with Canadian generally accepted auditing standards. Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are independent of the organization in accordance with the ethical requirements that are relevant to our audit of the financial statements in Canada, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

### *Information other than the Financial Statements and Auditor's Report thereon*

Management is responsible for the other information. The other information comprises:

- ♦ The information, other than the financial statements and our auditor's report thereon, in the Annual Report.

Our opinion on the financial statements does not cover the other information and we do not and will not express any form of assurance conclusion thereon. In connection with our audit of the financial statements, our responsibility is to read the other information identified above and, in doing so, consider whether the other information is materially inconsistent with the financial statements or our knowledge obtained in the audit, or otherwise appears to be materially misstated.

---

## INDEPENDENT AUDITOR'S REPORT (cont'd.)

---

The Annual Report is expected to be made available to us after the date of this auditor's report. If, based on the work we will perform on this other information, we conclude that there is a material misstatement of this other information, we are required to report that fact to those charged with governance.

### *Responsibilities of Management and Those Charged with Governance for the Financial Statements*

Management is responsible for the preparation and fair presentation of the financial statements in accordance with Canadian accounting standards for not-for-profit organizations, and for such internal control as management determines is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is responsible for assessing the organization's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the organization or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the organization's financial reporting process.

### *Auditor's Responsibilities for the Audit of the Financial Statements*

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with Canadian generally accepted auditing standards will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements. As part of an audit in accordance with Canadian generally accepted auditing standards, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- ♦ Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- ♦ Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the organization's internal control.

---

## INDEPENDENT AUDITOR'S REPORT (cont'd.)

---

- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the organization's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the organization to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

*Baker Tilly Montréal* S.E.N.C.L. / L.L.C.<sup>1</sup>

Montréal, Québec  
May 31, 2019

<sup>1</sup>CPA auditor, CA, public accountancy permit No. A114616

**THE CANADIAN SOCIETY FOR CIVIL ENGINEERING**  
**STATEMENT OF FINANCIAL POSITION**  
**AS AT DECEMBER 31, 2018**

	2018	2017
<b>ASSETS</b>		
<b>Current</b>		
Cash and cash equivalents (Note 3)		
Unrestricted	\$ 316,675	\$ 326,519
Restricted	98,071	90,634
Accounts receivable (Note 4)	74,107	83,897
Government remittances receivable	111,757	36,078
Conference advances	12,164	10,148
Prepaid expenses	5,374	6,046
	<u>618,148</u>	<u>553,322</u>
<b>Property and equipment (Note 5)</b>	<b>2,343</b>	<b>2,025</b>
<b>Software (Note 6)</b>	<b>36,949</b>	<b>23,317</b>
	<u>\$ 657,440</u>	<u>\$ 578,664</u>
<b>LIABILITIES</b>		
<b>Current</b>		
Operating demand loan (Note 7)	\$ 143,765	\$ 79,842
Accounts payable and accrued liabilities	106,956	77,273
Government remittances payable	16,434	7,462
Due to regions and sections	-	41,996
Deferred revenue	51,912	74,172
Unearned competition revenue	33,777	20,118
Current portion of transfer payable - Second Century Fund (Note 8)	1,356	1,356
	<u>354,200</u>	<u>302,219</u>
<b>Transfer payable - Second Century Fund (Note 8)</b>	<b>2,712</b>	<b>4,067</b>
	<u>356,912</u>	<u>306,286</u>
<b>NET ASSETS</b>		
<b>Second Century Fund</b>	<b>98,071</b>	<b>90,634</b>
<b>Unrestricted</b>	<b>202,457</b>	<b>181,744</b>
	<u>300,528</u>	<u>272,378</u>
	<u>\$ 657,440</u>	<u>\$ 578,664</u>

**APPROVED ON BEHALF OF THE BOARD:**

\_\_\_\_\_  
*Director / Administrator*

\_\_\_\_\_  
*Director / Administrator*

See accompanying notes

**THE CANADIAN SOCIETY FOR CIVIL ENGINEERING  
STATEMENT OF SECOND CENTURY FUND AND UNRESTRICTED  
FOR THE YEAR ENDED DECEMBER 31, 2018**

	2018	2017
<b>SECOND CENTURY FUND</b>		
Balance, beginning of year	\$ <u>90,634</u>	\$ <u>89,170</u>
Repayment of transfer payable (Note 8)	1,356	1,356
Interest earned on transfer payable	81	108
Donation received	<u>6,000</u>	<u>-</u>
	<u>7,437</u>	<u>1,464</u>
<b>Balance, end of year</b>	<b>\$ <u>98,071</u></b>	<b>\$ <u>90,634</u></b>
<b>UNRESTRICTED</b>		
Balance, beginning of year	\$ <u>181,744</u>	\$ 416,863
Net earnings (loss)	<u>20,713</u>	<u>(235,119)</u>
<b>Balance, end of year</b>	<b>\$ <u>202,457</u></b>	<b>\$ <u>181,744</u></b>

*See accompanying notes*

**THE CANADIAN SOCIETY FOR CIVIL ENGINEERING**  
**STATEMENT OF REVENUES AND EXPENDITURES**  
**FOR THE YEAR ENDED DECEMBER 31, 2018**

	2018	2017
<b>Revenue</b>		
Membership fees		
Full members	\$ 218,861	\$ 195,921
Corporate	72,119	87,942
Sustaining members	17,600	17,600
Institutional members	550	6,050
Communications		
Magazine	50,073	60,782
Other	13,594	22,116
Lifelong learning	107,400	26,466
Annual conference	486,265	608,150
Specialty conference	634,542	-
Interest	7,634	6,173
Other	11,888	25,692
	<u>1,620,526</u>	<u>1,056,892</u>
<b>Expenditures</b>		
Administration	472,597	489,898
Communications	78,203	89,449
Lifelong learning	92,638	70,343
Rebates to regions and sections (recovery)	(15,551)	(22,854)
Committees and Board	88,759	55,340
Annual conference	365,612	517,031
Specialty conference	439,947	-
Annual meeting	20,085	18,798
Special projects	-	3,827
Awards and sponsorship	11,500	36,126
Interest on transfer payable - Second Century Fund (Note 8)	81	108
Financial charges	22,087	11,373
Bad debt	8,363	9,938
Other	1,831	501
Amortization - property and equipment	1,794	2,048
Amortization - software	11,867	10,085
	<u>1,599,813</u>	<u>1,292,011</u>
<b>Net earnings (loss) for the year</b>	<u>\$ 20,713</u>	<u>\$ (235,119)</u>

See accompanying notes

**THE CANADIAN SOCIETY FOR CIVIL ENGINEERING**  
**STATEMENT OF CASH FLOWS**  
**FOR THE YEAR ENDED DECEMBER 31, 2018**

	2018	2017
<b>Operating activities</b>		
Net earnings (loss) for the year	\$ 20,713	\$ (235,119)
Adjustments for		
Amortization - property and equipment	1,794	2,048
Amortization - software	<u>11,867</u>	<u>10,085</u>
	<b>34,374</b>	<b>(222,986)</b>
Net change in non-cash working capital items		
Decrease in accounts receivable	9,790	7,200
Increase in government remittances receivable	<b>(75,679)</b>	<b>(8,844)</b>
(Increase) decrease in conference advances	<b>(2,016)</b>	13,443
Decrease in prepaid expenses	672	15,005
Increase (decrease) in accounts payable and accrued liabilities	<b>29,683</b>	<b>(177,263)</b>
Increase (decrease) in government remittances payable	<b>8,972</b>	<b>(936)</b>
Decrease in due to regions and sections	<b>(41,995)</b>	<b>(25,728)</b>
(Decrease) increase in deferred revenue	<b>(22,259)</b>	64,101
Increase in unearned competition revenue	<u>13,658</u>	<u>7,278</u>
Cash used in operating activities	<u><b>(44,800)</b></u>	<u><b>(328,730)</b></u>
<b>Investing activities</b>		
Purchase of property and equipment	<b>(2,112)</b>	<b>(18,259)</b>
Purchase of software	<u><b>(25,500)</b></u>	<u>-</u>
Cash used in investing activities	<u><b>(27,612)</b></u>	<u><b>(18,259)</b></u>
<b>Financing activities</b>		
Increase in operating demand loan	<b>63,924</b>	155,342
Interest earned in transfer payable - Second Century Fund	<b>81</b>	108
Decrease in transfer payable - Second Century Fund	<b>(1,356)</b>	<b>(1,356)</b>
Repayment to Second Century Fund	<b>1,356</b>	1,356
Donation to Second Century Fund	<u><b>6,000</b></u>	<u>-</u>
Cash provided by financing activities	<u><b>70,005</b></u>	<u><b>155,450</b></u>
<b>Decrease in cash and cash equivalents</b>	<b>(2,407)</b>	<b>(191,539)</b>
<b>Cash and cash equivalents, beginning of year</b>	<u><b>417,153</b></u>	<u><b>608,692</b></u>
<b>Cash and cash equivalents, end of year</b>	<u><u><b>\$ 414,746</b></u></u>	<u><u><b>\$ 417,153</b></u></u>
<b>Cash and cash equivalents consist of:</b>		
Cash and cash equivalents	\$ 316,675	\$ 326,519
Cash - restricted	<u>98,071</u>	<u>90,634</u>
	<u><u><b>\$ 414,746</b></u></u>	<u><u><b>\$ 417,153</b></u></u>

See accompanying notes



# THE CANADIAN SOCIETY FOR CIVIL ENGINEERING

## NOTES TO THE FINANCIAL STATEMENTS

### AS AT DECEMBER 31, 2018

---

#### 1. **Nature of the organization**

The objective of The Canadian Society for Civil Engineer ("Society") is to advance the civil engineering profession by the exchange of technical information through seminars, conferences, publications and research. All Canadian civil engineers are eligible for membership and the Society is a member of the Engineering Institute of Canada (EIC). The Society is managed by an elected Board of Directors on behalf of the members.

The Society is incorporated under Section 211 of the Canada Not-for-profit Corporations Act and is not subject to income taxes.

These financial statements do not include the accounts of the Trustees fund and Jamieson Fund as detailed in Note 11.

#### 2. **Significant accounting policies**

The organization follows accounting principles generally accepted in Canada in preparing its financial statements. The significant accounting policies used are as follows:

##### (a) **Measurement uncertainty**

The preparation of financial statements requires management to make estimates and assumptions that affect the reported amount of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenue and expenditure during the reporting period. These estimates are reviewed periodically, and as adjustments become necessary they are reported in income in the period in which they become known. Estimates are used when accounting for items and matters such as allowance for doubtful accounts, amortization and accrued liabilities. Actual results may differ from those estimates.

**THE CANADIAN SOCIETY FOR CIVIL ENGINEERING**  
**NOTES TO THE FINANCIAL STATEMENTS**  
**AS AT DECEMBER 31, 2018**

---

**2. Significant accounting policies (cont'd.)**

**(b) Financial instruments**

The Society initially measures its financial assets and liabilities at fair value.

The Society subsequently measures all its financial assets and financial liabilities at amortized cost.

Financial assets measured at amortized cost include cash and cash equivalents, accounts receivable and government remittances receivable.

Financial liabilities measured at amortized cost include accounts payable and accrued liabilities, government remittances payable, due to regions and sections and transfer payable.

The company has not designated any financial asset or financial liability to be measured at fair value.

**Impairment**

Financial assets measured at cost are tested for impairment when there are indicators of impairment. The amount of the write-down is recognized in net income. The previously recognized impairment loss may be reversed to the extent of the improvement, directly or by adjusting the allowance account, provided it is no greater than the amount that would have been reported at the date of the reversal had the impairment not been recognized previously. The amount of the reversal is recognized in net income.

**(c) Property, equipment and software**

Property, equipment and software are recorded at cost less accumulated amortization. Amortization is provided on the straight line basis over 3 years for the equipment and over 5 years for the database software.

**(d) Revenue recognition**

The Society follows the deferral method of accounting for contributions. Restricted contributions are recognized as revenue in the year in which the related expenditure is incurred. Unrestricted contributions are recognized as revenue when they are received or become receivable.

Individual membership fees are recognized as revenue over the period to which they relate. Corporate membership fees are recognized as revenue in the period in which they are received or become receivable.

Other revenues are recognized in the year in which the event is held or the revenue is earned.

**THE CANADIAN SOCIETY FOR CIVIL ENGINEERING**  
**NOTES TO THE FINANCIAL STATEMENTS**  
**AS AT DECEMBER 31, 2018**

**2. Significant accounting policies (cont'd.)**

**(e) The Second Century Fund**

The Fund was created in 1987 to provide assistance for the enhancement of technical activities of the Society. This Fund is accounted for as an endowment and is administered by a three member committee. Cash held by the Society on behalf of the Fund is presented as restricted cash.

**(f) Regional operations**

These financial statements reflect only the rebates that are paid or payable to the Regions and do not include the assets, liabilities or operations of the Regions.

**3. Cash and cash equivalents**

Included in cash and cash equivalents are Guaranteed Investment Certificates bearing interest at 0.9%, maturing between May 2019 and September 2019 (2017 - bank's prime interest rate less 2.1% and 1.31%, maturing between April 2018 and June 2020).

**4. Accounts receivable**

	<u>2018</u>	<u>2017</u>
Trade receivables	\$ 74,856	\$ 89,646
Allowance for doubtful account	<u>(749)</u>	<u>(5,749)</u>
	<u>\$ 74,107</u>	<u>\$ 83,897</u>

**5. Property and equipment**

	<u>2018</u>		<u>2017</u>
	<u>Cost</u>	<u>Accumulated amortization</u>	<u>Net</u>
Property and equipment	<u>\$ 23,760</u>	<u>\$ 21,417</u>	<u>\$ 2,343</u>
			<u>\$ 2,025</u>

**6. Software**

	<u>2018</u>		<u>2017</u>
	<u>Cost</u>	<u>Accumulated amortization</u>	<u>Net</u>
Database software	<u>\$ 71,787</u>	<u>\$ 34,838</u>	<u>\$ 36,949</u>
			<u>\$ 23,317</u>

**THE CANADIAN SOCIETY FOR CIVIL ENGINEERING**  
**NOTES TO THE FINANCIAL STATEMENTS**  
**AS AT DECEMBER 31, 2018**

---

**7. Operating demand loan**

The Society has available an operating demand loan of \$300,000, due on demand and bearing interest at prime per annum plus 1.25% on all outstanding borrowings. The loan is secured by deposit instruments in the amount of \$300,000 in the name of the Society, and a moveable hypothec on the universality of assets of the Society for \$300,000.

**8. Transfer payable - Second Century Fund**

In 2016, the Board approved the transfer of funds from the Second Century Fund for the purpose of funding a corporate marketing plan. The amount of funds transferred was \$70,616 and has been recorded as a reduction of the committee and board expense. A portion of the funds was required to be repaid as follows:

Transfer payable to the Second Century Fund, repayable in five equal payments, bearing interest at 2% per annum, payable annually and maturing December 2021. Interest of \$81 (2017 - \$108) was incurred during the year.	\$ 4,068
Less current portion	<u>1,356</u>
Due beyond one year	<u><u>\$ 2,712</u></u>

Estimated repayments are as follows:

2019	\$ 1,356
2020	1,356
2021	<u>1,356</u>
	<u><u>\$ 4,068</u></u>

**9. Commitments**

**(a) Office space**

The Society has leased office space at a minimum annual rent of \$28,000 until August 31, 2020.

**(b) Regional rebates**

The Society offers a rebate of up to 10% of their membership fees to the Regions.

**(c) Engineering Institute of Canada core program fee**

The Society is a member of the Engineering Institute of Canada and pays the core program fee to support its essential operations.

**THE CANADIAN SOCIETY FOR CIVIL ENGINEERING**  
**NOTES TO THE FINANCIAL STATEMENTS**  
**AS AT DECEMBER 31, 2018**

**10. Contingent liability**

The Society's regional operations are not separately incorporated, therefore, the Society could be held responsible for liabilities incurred but not honoured by the regions.

**11. Related parties**

The Society is responsible for the management and administration of the Canadian Society for Civil Engineering Foundation Trustees Fund (Trustees Fund) and the Donald Jamieson Fellowship Fund (Jamieson Fund). These funds are a registered charity under the Canadian Income Tax Act and the Québec Taxation Act.

The Trustees Fund was created to provide honours and awards to recognize outstanding contributions made by engineering students and other individuals to the development of civil engineering through research, teaching and structural design work. The Fund is administered by a three member committee appointed by the Society.

The Jamieson Fund was created to further graduate student research at Canadian universities in the area of structural engineering. The amount and frequency of the fellowship is not specified; however, only 80% of the interest income earned in the fund is available for disbursement. The Fund is administered by a three member committee appointed by the Society.

	<u>2018</u>	<u>2017</u>
<b>Assets</b>		
Cash	\$ 123	\$ 112,896
Investments	301,191	203,410
Accounts receivable	<u>20,227</u>	<u>9,388</u>
	<u>\$ 321,541</u>	<u>\$ 325,694</u>
<b>Net funds</b>		
<b>Trustees Fund</b>		
Balance, beginning of year	\$ 199,519	\$ 188,761
Interest and other income	1,393	496
Dividends	1,125	2,704
Capital gain	5,729	-
Fair value (loss) gain	(13,526)	4,776
Foreign exchange loss	(725)	-
Donations	9,691	8,600
Awards and other expenses	<u>(2,626)</u>	<u>(5,818)</u>
<b>Balance, end of year</b>	<u>\$ 200,580</u>	<u>\$ 199,519</u>

**THE CANADIAN SOCIETY FOR CIVIL ENGINEERING**  
**NOTES TO THE FINANCIAL STATEMENTS**  
**AS AT DECEMBER 31, 2018**

---

**11. Related parties (cont'd.)**

	<u>2018</u>	<u>2017</u>
<b>Jamieson Fund</b>		
Balance, beginning of year	\$ 126,175	\$ 121,887
Interest and other income	1,192	441
Dividends	963	2,405
Capital gain	4,902	-
Fair value (loss) gain	(11,574)	4,247
Foreign exchange loss	(621)	-
Donations	1,695	3,195
Awards and other expenses	<u>(1,771)</u>	<u>(6,000)</u>
<b>Balance, end of year</b>	<u><b>\$ 120,961</b></u>	<u><b>\$ 126,175</b></u>

**12. Financial instruments**

Unless otherwise noted, it is management's opinion that the Society is not exposed to significant interest rate, currency, credit, liquidity or market risks arising from its financial instruments and the carrying amount of the financial instruments approximate their fair value.

**13. Comparative figures**

The financial statements have been reclassified, where applicable, to conform to the presentation used in the current year. The changes do not affect prior year earnings.