

2019 ANNUAL REPORT



Canadian Society for
Civil Engineering



Société canadienne
de génie civil

MAJOR PARTNERS | PARTENAIRES MAJEURS



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

PARTNERS | PARTENAIRES



AFFILIATES | AFFILIÉS



CSCE SECTIONS

Newfoundland

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

Nova Scotia

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

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

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

West New Brunswick

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

Montréal

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

Sherbrooke

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

Québec

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

Capital Section (Ottawa-Gatineau)

Contact: Nima Aghniaey, MCSCCE
T. 613-580-2424 x17691
Email: nima.aghniaey@ottawa.ca

Toronto

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

Hamilton/Niagara

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

Northwestern Ontario

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

Durham/Northumberland

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

London & District

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

Manitoba

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

South Saskatchewan

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

Saskatoon

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

Calgary

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

Edmonton

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

Vancouver

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

Vancouver Island

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

CSCE Hong Kong Branch

Contact: Kelvin Cheung, MCSCCE
T. 011-852-9225-0304
Email: kelvin_cheung@wanchung.com

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CSCE National Office

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

Annual General Meeting

Friday June 14, 2019 1:15 p.m. – 1:55 p.m.

Laval 1 & 2, Sheraton Conference Centre, Laval Qc

1. Call to Order (and quorum determination) 1:30pm
 TWe had 13 of 16 Board members present at the AGM and 65 members in good standing. 27 were required for quorum.

2. Any new items to add to the agenda.
 8 a) HUB

3. Adoption of the Agenda
MOTION: To adopt the agenda
 1st: Jim Kells
 2nd: Bing Chen
 Unanimous

4. Approval of the Minutes of the 2018 AGM June 15, 2018-Fredericton, NB (as provided in the Annual Report)
MOTION: To approved the minutes from AGM June 15, 2018
 1st: Wade Zwicker
 2nd: Michael Bartlett
 Unanimous

5. President's Report

- a. President's year end overview.
 - i. We are still in our current downtown office in Montreal. Property owners are selling and will relocate us to a new location.
 - ii. Accessibility. The President's Task Force has been working with Alan Perks and has made significant in-roads with VIA Rail with plans and initiatives to help all those who need better accessibility. Not just those who require ramps and the obvious things that we think about. This is a feather in our cap.
 - iii. Communications. Fourth quarter we had some issues with the magazine. We have shifted to 4 issues, 3 print and 1 online only. Things will be better with our new vendor. We need to keep in mind that the magazine is not a revenue generator, it's meant as a communications tool.
 - iv. Technology. We have a new consultant to help with the functioning of the website and member site. Things are working much better. (We will discuss the HUB in #8)
 - v. Corporate membership has advanced. Peter George, CSCE corporate representative, has a succinct scope to increase their membership. We will continue with our goals for sustainability with the Triennial coming up in 2021.

b. Identification and thanking of the retiring Board members
 Thank you to:
 Susan Tighe, Past President
 Brad Smid, Honorary Treasurer
 Jeff Rankin, Member at Large representing Council of Heads and Chairs
 Mike Hnatiuk, Region Vice-President, Prairies Region

c. Vision 2020 update – Strategic Initiatives Report Card
 In Vancouver we started talking about Envision. We need to keep working on this, Central Canada needs a bit of prodding I want to take a moment to say thank you for this opportunity, it has truly been a privilege.

6. Report of the Honourary Treasurer and motions to approve financial statements.
 Notes from Brad Smid, Honorary Treasurer: Our goal is to be self-sustaining and sustainable. We were down in 2017. Stabilized in 2018. We have a solid foundation moving forward which is important to the Society and our Membership. CSCE Foundation is overseen by an independent Trustee. We have a new RBC Wealth Manager which is included in the Annual Report. Revenues were higher than anticipated but our

administrative expenses were higher as well. We balanced with a slight surplus. It was a pleasure to serve. Thanks to Patricia Ricci, Controller, Glenn Hewus, President, and Baker Tilly Montreal, Auditors.

a. MOTION: to receive the 2018 financial statement for information
 1st: Jeff Rankin
 2nd: Michael Bartlett
 Unanimous

b. MOTION: to appoint Baker Tilly (Formerly Collin Barrow) auditors for 2019 fiscal year
 1st: James Garland
 2nd: Adel Francis
 Unanimous

Glenn Hewus – We are also recovering some back taxes thanks to Patricia Ricci and Brad Smid.

MOTION: to accept all:
 1st: Randy Pickle
 2nd: Gordon Lovegrove
 Unanimous

7. Report of the Nominations Committee and motion to accept the report (as provided in the Annual Report)
 Susan Tighe – It's not easy to identify new people. We would like people to bring forward names and encourage participation.

a. MOTION as the Chair of the Nominating Committee to accept the report in the Annual Report:
 1st: Susan Tighe
 2nd: Vic Perry
 Unanimous

8. Other business, if any

a. HUB
 Lyanne St. Jacques – We simplified the HUB to a format that we can handle with regards to resources and budget. It is a library where our members can upload technical content and share, discuss and inspire new ideas. The HUB went live to all members on May 6, 2019.

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

a. Glenn Hewus – It's time for the passing of the gavel. Michel Khouday is a great one to take things further. I have spent time with him and Catherine discussing vision 2030. In all sincerity our Society is strong, inspiring and keeps me going.
 Glenn fixes pin on Michel's lapel. Shake hands and officially welcomes him as the new CSCE President.

Michel – Speech about how he is honoured and humbled to be coming into the position to President at CSCE.

MOTION to accept Michel Khouday as CSCE President:
 1st: Michel Khouday
 2nd: Wade Zwicker
 Unanimous

b) Glenn was given a honorary CSCE engraved watch to thank him for his service as president of CSCE.

10. Adjournment

2:08 pm

Report of the President

Michel Khouday, P.Eng., M.Eng., PMP, C.Adm., M.B.A., Ph.D.

Communication is the Future

It's hard to believe how quickly times goes by, but this past year has certainly not gone by without accomplishment. I'm delighted to share with all of you what we, together at CSCE, have accomplished over the last twelve months. With communication at the core of our efforts, we have come together to revamp our benefits and opportunities, evolved our committees to better address our membership matters and pooled our expertise to derive new strategic directives for 2030 with a broadened scope for sustainability across all disciplines of Civil Engineering.

In regards to sustainability, we are happy to share some advancements that have been made as of late. Representatives from CSCE are making efforts to bring Envision to a legislative level here in Canada, and we invite all members, and non-members alike, who can help give this plea the visibility and backing it requires to make this happen. In the meantime, we must leverage our network to spread awareness and strongly encourage participation. CSCE is also hoping to adopt the certification process for Envision so that it can be made more readily available to engineers based in Canada – which will make them more attractive to the global market. On another note, we can proudly boast our continued participation with the Canadian Infrastructure Report Card (CIRC), for which the data collection rose to nearly 95% in this 3rd iteration. After less than 50% just a few years ago, this is no small feat. We are confident that this report will be a key tool when it comes to legislative budget allocations, as well as prioritization of resources and man power across the gaps indicated by this report. We also continue to grow our Asset Management Committee and encourage all of our members to inquire as to how they can get more involved to influence the sustainability of their respective communities.

To expand a bit more on our new strategic directives for 2030, we have had some very productive discussions as well as an extensive workshop in mid-November of 2019 which brought to light some new priorities for the Society. We had the privilege of having members from all levels in attendance, including Presidents of the local Student Chapters – which was a first for CSCE. And while “growing with youth” was a former directive, we are confident that a focus on youth will remain, albeit in a new direction. CSCE will continue to work with the Student Members to better understand their challenges and find ways to help them prevail these roadblocks in the hopes to increase the number of pupils who will choose to pursue a career in Civil Engineering. Additionally, CSCE will expand its efforts to educate youth, as well as the general public, about the work of Civil Engineers. The mass misconception of our profession is prevalent and continues to grow as the range of our work expands, and the number of niche disciplines continue to grow.

Another topic that surfaced during the discussions of our new directives was better understanding the landscape of Civil Engineering across Canada, including regional migration, fluctuation of demand across disciplines, the resource crisis due to baby boomer retirement and the mass immigration that is

occurring to meet this resource demand. CSCE is determined to keep its member better informed about these rapidly changing trends so that career decisions can be based on the latest information.

We also held a very productive board meeting after the workshop and received many productive updates for the Society. The Administration Coordinating Committee also reported that a new committee has been formed (to be announced along with its members in early Spring of 2020) that will replace and expand on the Member Services Committee, as well as the Communications Committee. This new composition will be presented as the Membership Committee and will be wholly responsible for all matters that impact membership.

Another major accomplishment was presented, as well as made public to our members in the Fall, and that of course was a complete overhaul of our benefits and opportunities for our members. With fifteen new categories for our members to explore and take advantage of, there's no question that we have improved not only the communication of our offer, but expanded our support to members at every level.

Moreover, the enthusiasm around the CSCE Student Competitions is revving up with our new Chair of Student Competitions. The addition of this role was critical for their future success as they fall under Student Affairs, a mandate that has far outgrown the responsibility of a single member. We will be taking a closer look at this portfolio of work in the coming months to see if additional support is required.

A lot has been accomplished over this past year much of which was the result of better communication. Sharing ideas, sharing challenges and sharing opportunities. Communication is the currency of a wealthy society. It brings about change and solutions. It keeps us connected and forges new allies for future endeavors. It's clear that communication is a priority for CSCE. Communication is the future.

As I prepare to step down from my post as President at CSCE, I want to once again thank the Society for the privilege this has been. This experience is absolutely a key factor in my success as an engineer and I can only hope that my time in this position has had a positive impact on the Society and our members. I look forward to my new role as Past President and will also be taking on a new mandate with CSCE that will be announced later this summer.

I want to take this opportunity to thank all of our volunteers on the Board, the past president and especially our head office staff for their time and dedication to the society.

Your new president, Catherine Mulligan, and president-elect, Brenda McCabe, will making history at CSCE as they will be the first two consecutive female presidents of the Society. CSCE is proud to make strides towards gender equality in our profession and confident that these two individuals will steer us towards a path we want to follow.

As always, “be seen, be heard, be relevant.”

Michel Khouday, P.Eng., M.Eng., PMP, C.Adm., M.B.A., Ph.D.
CSCE President 2019-2020

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Report of the Senior Vice President

Brenda McCabe

It has been a pleasure to serve as Senior Vice President from 2019-06 to 2020-05. It was a time to engage with the outstanding leadership that resides in the Society, from Section and committee chairs to Board executives. I encourage anyone who is interested in growing leadership skills, improving speaking abilities, gaining teamwork and networking competencies, or becoming a mentee or mentor to contact your local Section for opportunities to get involved.

I also had the honour of being invited by the UNB Student Chapter Executive to speak at their Annual Professional Development and Networking Dinner. It was a delight meet students and industry leaders and experience the strong collaboration that exists there – thank you.

The SVP portfolio comprises four committees: the Regional Coordinating Committee (RCC), the Student Affairs Committee (SAC), the Young Professionals Committee (YPC), and the International Affairs Committee (IAC).

RCC met four times via teleconference after the 2019 conference, including twice in early 2020; we also attended the November Board meeting in Montreal. I applaud the work of the Regional Vice-Presidents (RVP), who coordinate the Sections in their regions and continually look for ways in which the Society can better support the range of professional needs of our membership. The Atlantic Region has been especially innovative in developing, testing, and sharing activities that have great potential for improving the Society. For example, last year the Atlantic Region initiated excellence awards at the local level. This year, RCC coordinated with the Honours & Fellowships committee to take this initiative across the country with nominations being assessed regionally and nationally for the Excellence in Innovation in Civil Engineering Award, the Award for Governmental Leadership in Sustainable Infrastructure, and the Young Professional Engineer Award. Working with CSCE's Director, Marketing & Communications, we now have a slide deck that Sections can use at the start of their events to promote the latest initiatives and benefits of CSCE membership. Speaking of membership, we are also working to identify membership cores that are not currently being served by a Section with the vision to creating new Sections where they are needed. As such, Ontario is looking at two or more new

Sections to serve our members better.

Working with Prof. Charles-Darwin Annan, the Chair of SAC, we are developing Terms of Reference for the SAC portfolio. The role has grown enormously since it was created just eight years ago. This committee liaises across the country with civil engineering programs and student chapters. It also sponsors five major competitions: concrete canoe, steel bridge, capstone projects, conference papers, and best student chapter. To support the efforts of Prof. Annan, an outstanding young professional member, Jérémie Aubé, was recruited to lead a subcommittee focused on the competitions. Individual and corporate members interested in getting involved are asked to contact either Charles or Jérémie.

The Chair of the YPC, Rami Mansour, is highly active in engaging our youth and future leaders. Rami presented to RCC on his initiatives to serve this community within the Society.

Finally, the Vice President International has been tremendously busy this year, as you will see from his report. Thanks go to the entire VPI team for their dedication and successful efforts to promote CSCE internationally. One of their initiatives, the Ambassador Program, provides funding to members who are traveling abroad so that they can share some of CSCE's activities and benefits with engineering societies around the world. I encourage our members to take advantage of this great opportunity.

Next, the 2019 annual reports from all of these committees are provided. Again, I encourage our members to get involved in this exciting Society through mentorship, student sponsorships, and leadership opportunities.

Brenda McCabe

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 the 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.

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. Formed in the 1980s, IAC has been one of the CSCE's most active committees and played a leading role in the international affairs of CSCE.

The first CSCE overseas branch - CSCE Hong Kong Branch (CSCE HKB) 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 IAC and CSCE HKB report to the VP International.

1.1 Continuing Growth Overseas

Bing Chen (VP International) has been closely working with IAC and CSCEHKB to promote CSCE and grow our international membership and partnerships across the globe. Based on the membership payment by October 2019, CSCE has over 300 foreign members outside Canada from 44 countries in 6 continents and more than 100 foreign members currently studying or working in Canada. Among them, around 260 foreign members are students. We have established 28 international agreements with foreign societies and associations and 12 Institutional

Members International (IMIs) worldwide. The detailed information is available on the CSCE International Region website.

In the past year, we have continuously made efforts and achievements in terms of growing our international partnership and memberships, providing more benefits to foreign members (e.g., new Ambassador Program and professional development events overseas), bringing new opportunities back Canada, exchanging information with partner associations, and promoting Canadian civil engineering and civil engineering profession worldwide. Meanwhile, we have faced some significant challenges such as the prolonged unrest in Hong Kong and the recent novel coronavirus outbreak, which caused influences in our activities overseas. The details are summarized in the sections below.

In the coming year, we should and will continue and enhance our efforts to grow our international partnership and membership particularly 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 Smooth Transition of Leadership in IAC and CSCEHKB

Jeanne Huang has taken over the IAC chair position in March 2019 from Rishi Gupta who has finished his second 2-year terms. Sadegh Kazemi has been elected to the Deputy Chair position after his service as the IAC Secretary.

The new Executive Committee membership

of CSCEHKB commenced on January 1, 2019. TC Kan has been elected as the new Chairman of the HK Branch (2019-2021) after Kelvin Cheung who becomes the Immediate Past Chairman. Ben CHAN continues his 2nd term as the Vice Chairman of the branch.

This is to acknowledge the excellent leadership and great contributions of Rishi Gupta and Kelvin Cheung to the IAC and the CSCEHKB respectively as well as the international affairs of our society.

1.3 Overseas Partnership Development

Bing Chen and IAC have been actively making efforts in strengthening our existing international partnerships and develop new ones. I have also been working with the National Office to organize and evaluate the existing international agreements with potential follow-up engagement if necessary.

A recent initiative of the VP International is to explore the possibility of establishing the 2nd oversea branch in the Middle East (e.g., in Egypt). CSCE has maintained an active role in partnering with engineering professional organizations in the Middle East where we have over 40 foreign members with growing interests in CSCE and long-term partnerships. In November 2018, our past President, Glenn W. Hewus, attended the GeoMEast 2018 International Congress and Exhibition in Cairo and gave a speech on behalf of CSCE. He received positive feedback along with a strong interest in our society and enhancing the relationship. Importantly there is an agreement between CSCE and the Institution of Civil Engineers of the Egyptian Society of Engineers. These facts make the establishment of a Middle East branch in Egypt reasonable and feasible. Since early 2019, I have been working with several CSCE members in Canada with close connections in the Middle East in civil engineering. Recently a potential champion, Dr. Mohamed Abou-Zeid, in Egypt has been identified with confirmed interest through the connection of Dr. Amgad Hussein (CSCE fellow and former department head of civil engineering at Memorial University). Dr. Abou-Zeid is a professor and former Chair of the Department of Construction Engineering at the American University in Cairo. He is also a long-time active CSCE member and has kept attending our annual and specialty conferences in the past decades. Further

discussion and follow-up actions are ongoing. A potential IMI, the China Three- Gorges University (CTGU), has shown interest to become an IMI of CSCE. The IAC Chair, Jeanne Huang, will work on recruiting CTGU in 2020. Established in 2000, the CTGU is a public higher education institution located in the large city of Yichang, Hubei. It is officially accredited and/or recognized by the Department of Education of China and Hubei Province as a large (enrollment range: 20,000-24,999 students) coeducational higher education institution. CTGU offers diverse programs at all levels and has strong research and teaching capabilities in civil engineering especially through the School of Civil Engineering. Similarly, another potential IMI, the Wuhan University of Technology (WUT), has been identified during the visit by IAC member, Andrew Liu, to WUT in May 2019. It is one of the leading institutions in China and has fostered over 500,000 engineers and technicians in the past 70 years.

Another new partnership with the China Urban Water Association (CUWA) has been discussed and will be established through the efforts of the IAC and its Chair Jeanne Huang in 2020. A Memorandum of Understanding is being prepared currently.

The existing partnerships with the Chinese Hydraulic Engineering Society (CHES) and the China Highway Transportation Society (CHTS) have been enhanced through visits by the IAC chair and members (e.g., Jeanne Huang and Andrew Liu) and collaboration in organizing conferences such as 2020 World Transport Conference in Beijing. CHES plans to send a delegation to attend CSCE 2020 Annual Conference in Saskatoon which will be followed up by Jeanne Huang and Bing Chen.

1.4 Ambassador Program

The new Ambassador Program was launched in June 2019 to engage and stimulate members to facilitate the development of the society's international partnership and the promotion of Canadian civil engineering globally. It supports a member (titled "CSCE Ambassador") with financial aid of \$500 (max CA\$1500 with strong justifications) 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 to be published on the IAC website and social media is required afterwards. Every year the number of Ambassadorships will be subject to budget availability. The Program is open to any CSCE active members in all the categories. The Call for Application of 2019-2020 has been circulated via CSCE E-Bulletin and posted on the CSCE websites (cover page and International Region's page) in July and November 2019. More promotion efforts are required to inform members through not only IAC but regional and section levels.

1.5 Overseas Professional Development Event

The VP International has been working on the planning of CSCE PD events overseas. Bing Chen proposed the first event to be held in Hong Kong and received positive feedback and confirmed interest from the TC Kan and Executive Committee of CSCE HKB. Bing Chen, Vic Perry (Fellow and Past President of CSCE and Chair of NLT) and George Cheng (Student Affairs Committee Chair of HKB) met in Laval during the CSCE AGM in June and discussed the plan on the first CSCE Overseas Technical course on Structural Use of Ultra-High Performance Concrete (UHPC) and Fibre Reinforced Concrete (FRC) in 2020. As a follow up, Vic Perry met with the HKB chair and EC members during his visit to Hong Kong in August 2019 and planned the details. With the support from HKB and National Office, this will be our first CSCE PD event overseas leading to benefits to our foreign members, creating opportunities for our domestic members, and promoting Canadian civil engineering. On the other hand, discussions and efforts are also being made to invite overseas experts (especially CSCE foreign members) to come to Canada for the exchange of information and expertise.

1.6 Visit to CSCE Hong Kong Branch

In March 2019, I visited the CSCE HKB and met with the new Chairman, TC Kan, and the new Executive Committee leadership. We together reviewed and cheered for the achievements of the Branch in 2018 such as the student exchange activities, the Seismic Conference, the branch's AGM, the Annual Dinner (Canada 150), and the publication of the Commemorative Booklet - Yearbook for

Canada 150. The 2019 plan was discussed and more efforts would be made to sustain and grow IMIs and student chapters in Hong Kong through partnerships with local institutions and bring benefits to members in Hong Kong via the new Ambassador Program, CSCE HUB, and PD events overseas. As the most important event of the branch, the Annual Dinner was successfully held on October 11, 2019, with over 200 participants including VIPs such as the Consul General of Canada in Hong Kong and Macao, Mr. Jeff Nankivell. On behalf of CSCE, Brian Burrell (former VP International and Hong Kong Liaison Officer) and Jeanne Huang (IAC Chair) attended the event and showed the continuing strong support from CSCE. Our President and myself have been invited to the 2020 Annual Dinner. 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, Jeanne Huang, PhD, PEng, FCSCE.

2.1 Overview

The CSCE's International Affairs Committee (IAC) is chaired by Jeanne Huang, and currently has 13 active members. IAC has made a smooth transition of the leadership in 2019 (refer to Section 1.2). IAC's activities include both foreign projects and domestic activities within Canada. The IAC is mandated to plan and carry-out CSCE's international activities, to undertake its international development projects, and to keep CSCE members aware of civil engineering research, practise, opportunities and major projects in foreign countries. 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 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 sponsorship of international and foreign conferences, which are usually handled directly by the appropriate Technical Divisions; activities undertaken by the National Office in response to requests for

information, and; the operation of any CSCE Branch in a foreign country if outside specific bilateral agreements of cooperation. Information on IAC can be found on the committee's web pages, which are regularly updated with support from the National office.

2.2 Technical Delivery Activities Overseas

In China, the CSCE continuously collaborated with our partners from government, universities and professional associations and gave non-financial support to and co-organized several flagship events. As our long-term partner, the Ministry of Science and Technology of P. R. China has been collaborating with CSCE in organizing the Sino-American Technology and Engineering Conference (SATEC) since 2013. SATEC is a small scale, but a very high profile forum. The outcomes are directly reported to the Vice Premier of the State Council of P. R. China. CSCE has been using this forum as a unique and effective channel to showcase Canadian civil engineering and promote Canadian civil engineering technologies in China and worldwide. This year, on behalf of CSCE, Jeanne Huang was invited to attend the organizing committee of the 13th SATEC on December 12 in Beijing. The theme was determined as "Future Community/Smart City" and the City of Hangzhou in China was selected as the venue. The forum will be held in November 2020. The searching for experts and speakers will start in March 2020, in which CSCE and especially IAC will continuously play an important role.

Through the joint efforts of the China Highway and Transportation Society (CHTS) and the CSCE IAC (Andrew Liu, IAC Member and CSCE Liaison Officer for CHTS, and Ming Zhong, IAC Member), CSCE co-sponsored following conferences in 2019:

- The 5th International Conference on Transportation Information and Safety (ICTIS 2019), July 14-15, Liverpool, UK
- The Fifth International Conference on Integrated Land-Use Transport Modeling (ILUTM-5), May 17-19, Haikou, China

Andrew Liu visited the China Highway Transportation Society (CHTS) in Beijing on May 25, 2019, discussed with CHTS Secretary-General and the Chair of its

International Affairs on possible collaboration during the 2020 World Transport Conference in Beijing.

Jeanne Huang and Van-Thanh-Van Nguyen (IAC member) hosted a delegation led by Prof. Jianyun Zhang, President of the Nanjing Hydraulic Research Institute (CSCE Institutional Member International or IMI) in Montreal in July with constructive discussions and some recommendations regarding the IMI benefits.

Ghani Razaqpur (Former President of CSCE) and Jeanne Huang (Chair of IAC) were invited by the China Science and Technology Association to attend the First World Science and Technology Development Forum on October 16-17, 2019 in Beijing. The congratulatory speech was given by Jinping Xi, President of P.R. China, at the opening ceremony followed by the keynote speeches by several Nobel Prize Winners and presidents of world-renowned universities. Jeanne Huang also gave a speech on “Technology Creates the Future: The Collaborative Innovation in the new century”. She particularly introduced the background of CSCE and how CSCE played an important role in the world engineering development for more than 100 years.

The Chinese Hydraulic Engineering Society (CHES) sent an invitation to CSCE to attend the CHES Annual Meeting in Yichang, Hubei on October 21-23, 2019. Jeanne Huang and Edward McBean (Professor of University of Guelph and Fellow of CSCE) participated in the event. They served as judges for the young scholar competition and made keynote speeches in which CSCE was introduced and promoted.

In India, Rishi Gupta (former IAC Chair) met with several academic institutions where he made technical presentations and spoke about activities of CSCE and IAC. These academic institutions included Indian Institute of Technology (IIT) Mumbai, IIT Gandhinagar, Nirma University, Veltech University, CEPT University and Lovely Professional University. Potential partnerships are under development.

In Malaysia, the Institution of Engineers (IEM) has become a new international partner association of CSCE. The Memorandum of Understanding has been signed by the presidents of the organizations in January 2019. Through the efforts by Rishi Gupta (leading), Bing Chen and Van-Thanh-Van Nguyen, collaborative opportunities such

as co-organizing a PD workshop are being discussed.

Globally, the IAC members have been making continuing efforts in developing contacts and activities and promoting CSCE and Canadian civil engineering, including Brian Burrell (former VP International) as Liaison Officer for Hong Kong, Macau and Taiwan Philippines, Sadegh Kazemi (IAC 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. Efforts will be made to review/reactivate some inactive partnerships, develop activities to further engage the active relationships, and grow new ones worldwide.

3. CSCE INTERNATIONAL REGION

The following summary highlights the major activities of the Hong Kong Branch, reported by the Chairman of CSCE HKB, TC Kan, MCSCE.

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 (HKB) 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.

3.2 Annual General Meeting

The 9th AGM of the HKB was successfully held on the 16th December 2019 at the conference room of JMK Consulting Engineers Ltd. As recorded, the Executive Committee conducted eight formal meetings in 2019 in dealing with all matters related to

the administration and management of the HKB. In addition to the current five Standing Committees, namely Student Affairs Committee, Membership Committee, Finance Committee, Publicity Committee and Technical Committee, AGM 2019 had accepted a motion to establish a new Youth Member Committee in 2020 with a view to better maintain the growth of Graduate Members and enhance the membership drive on youth members in alignment with the CSCE’s strategic direction of “Growing with Youth”.

3.3 Annual Dinner

The Annual Dinner is the most important event for the HKB to make connection with the local stakeholders in different fields, i.e. the Government bodies of both Canada and the HKSAR, the professional and educational bodies in the relevant engineering disciplines and building/civil construction industries, to strengthen our social network and promote CSCE and the status of the HKB. The Annual Dinner was successfully held on the 11th October 2019 at Royal Plaza Hotel attended by over 200 participants who were prominent members of the engineering and construction industry sectors in Hong Kong. The Guest of Honor, the Permanent Secretary for Development (Works), Ir Lam Sai-hung, and the most distinguished guest, the Consul General of Canada in Hong Kong and Macao, Mr. Jeff Nankivell, to participate in the dinner. The other VIP guests included LegCo Member of the Engineering Functional Constituency, Ir Dr. Hon LO Wai Kwok, Directors/Deputy Directors of 6 Government engineering departments, Presidents/Chairmen of the local and international engineering associations and Heads of engineering department of the local universities/ higher education institutions. On behalf of CSCE and its President, Brian Burrell (former VP International) and Jeanne Huang (IAC Chair) attended this important event.

3.4 Student Chapters and Student Canada Visit

In 2019, the HKB maintained some 200 student members in the student chapters of 3 higher education institutions with civil engineering programs which were Technological and Higher Education Institute of Hong Kong, Chu Hai College of Higher Education and The Hong Kong Institute of

Vocational Education (Tuen Mun). In addition to the general technical events such as technical talks and field trips regularly organized by the 3 student chapters, the HKB had subsidized 12 student members under its student program of Student Canada Visit to visit Vancouver in January 2019. The Student Vancouver Visit 2019 was evaluated as a successful overseas activity providing the participating students with an opportunity to explore in person the Canadian culture of studying and practicing in the field of civil engineering.

3.5 Connection with Headquarter and other committees of CSCE

The HKB keeps close connections with CSCE's headquarter and committees such as IAC in operation of the HKB particularly on the technical aspect of promoting Canadian practice of civil engineering in Hong Kong. In 2019, Prof. George Cheng, HKB Student Affairs Committee Chair, was nominated by the EC and invited by VP International to attend the CSCE AGM and Board Meeting on 16th June 2019 in Laval, Quebec, Canada. The HKB hosted the overseas VIP guests from CSCE during their visit to Hong Kong in 2019. They included Bing Chen (VP International) on 25th March 2019, Vic Perry (past President) on 13th August 2019 and Brian Burrell (former VP International and IAC Hong Kong Liaison Officer) and Jeanne Huang (IAC Chair) at the Annual Dinner on 11th October 2019.

3.6 Networking with the Consulate General of Canada in Hong Kong and Macao

Being a professional association with a strong link to Canada, the HKB has built up a good relationship connecting with the Consulate General of Canada in Hong Kong and Macao. Chairman of the HKB is enlisted as VIP guest to be invited on regular basis by the Consulate General of Canada to participate in its annual events such as Canada Day Reception in late June, Canadian Commemorative Ceremony in early December and some technical seminars organized by the Trade Commissioner. In 2019, our Immediate Past Chairman, Kelvin Cheung, represented the HKB to attend the Canada Day Reception held on 27th June 2019 while our Publicity Committee Chair, Mr. Brian Wong, Kelvin Cheung and TC Kan attended the Canadian Commemorative Ceremony held on 8th December 2019 at Sai

Wan War Cemetery.

3.7 Collaboration with other Professional Bodies

The HKB has steadily grown and increased our community participation in these years. For the sake of enhancing our professional status in the local engineering and construction industry, the EC will organize and/or co-organize technical seminar/conference on regular basis and has set a long-term strategy to offer support without financial implication to other professional bodies to assist the promotion of civil engineering and/or environmental issues. In 2019, the HKB had participated in the following events in the role of the event co-organizer and/or the supporting organization:

- HKIE Environmental Division Annual Forum on “Environmental Innovation: Opportunities and Challenges in Hong Kong” held on 30th April 2019;
- ICE HK Association Annual Conference on “Reducing Risks of Infrastructure Failure -the Role of Technology, Innovation and Governance” held on 26th April 2019;
- Business Environment Council (BEC) EnviroSeries Conference on “The Business of Waste – Solving Hong Kong’s Urgent Environmental Problem” held on 15th May 2019, and ;
- MGM Technical Seminar on “Exploring MGM COTAI and its Guinness World Records Roof” held on 15th June 2019;
- Public Engagement on Long-term Decarbonization Strategy organized by The Council for Sustainable Development at the period from June to September 2019;
- Hong Kong Waste Management Association (HKWMA) One-day Forum on “Municipal Solid Waste Charging: How will it impact Hong Kong” held on 26th September 2019;
- International Water Association Asia Pacific Regional Group (IWA-ASPIRE) Conference & Exhibition 2019 held in the period from 31st October 2019 to 2nd November 2019; and
- BEC EnviroSeries Conference on “Urban Transport of Tomorrow: Policies, People and Business Opportunities” held on 14th November 2019.

3.8 Social Networking

Through mutual recognition and invitation, the EC members will regularly participate in the non-technical events of other partner organizations and government departments to strengthen the social networking of the HKB. In 2019, the HKB representatives had attended several annual dinners and cocktail receptions as the invited VIP guests organized by some local offices of the international engineering associations and Government departments of the HKSAR.

Terry Fox Run Hong Kong was conducted on 9th November 2019. It was the fourth consecutive year for the HKB's participation in the annual charity event in Hong Kong. The HKB running team consisting of 10 members had achieved its targeted fundraising this year.

4. CONCLUDING REMARKS BY THE VP INTERNATIONAL

Over the past year, the CSCE International has organized and participated in various professional activities worldwide, recruited and created benefits for foreign members, and actively promoted Canadian civil engineering globally.

The VP International would like to take this opportunity to thank CSCE IAC and HKB chairs and members for their passion, dedication and great efforts in promoting our society and Canadian civil engineering globally. Special thanks are also owed to the other CSCE committees/sections and those member volunteers for their support and contributions to our international activities and programs. Together, we can make important contributions to the civil engineering profession not only in Canada but worldwide!

Bing Chen, Ph.D., PEng., FCSCE
Vice President International

CSCE Young Professionals Committee Chair: **Rami Mansour**

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. This mandate supports the CSCE's Strategic Direction 2, which is dedicated to growing with youth. The YP committee's continuing initiatives include providing support and funding for

section networking, mentoring and youth outreach events. In 2019, the YP committee provided financial support to 10 events across 5 CSCE sections. This financial support allows active sections to put together more events, which attract and engage young professionals. In addition, the committee provided financial support to YP events at the annual conference. These events were very well attended by young professionals from across the country, with both members and non-members in attendance.

Each year, the YP committee continues to expand its footprint by recruiting section representatives from all over Canada. The current committee consists of members from 12 sections, from Vancouver Island to Prince Edward Island. In 2019, the executive team welcomed Rami Mansour as the new committee Chair, Alex Drover as the new Secretary, and Tyler Dickens as the new Treasurer. The committee has a conference call each quarter to discuss opportunities for young professionals at each section. Section representatives are able to use these calls as a forum to share, learn and be inspired on how to engage with young professionals. These meetings are also used to gain feedback on how CSCE can better connect young professionals with the organization as a whole.

The young professional articles in the Canadian Civil Engineer continue to bring attention to important topics that are relevant to young professionals. The committee hosted four articles in 2019 that focused on inspiring engagement of young professionals in the CSCE. For the Fall 2019 article, the YP committee urged young professionals to pursue knowledge related to all aspects of the Civil Engineering profession. This article summarized the ways that young professionals could use memberships with the CSCE to improve the outcomes of their careers.

The introduction of free student memberships has been 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. The YP committee is committed to supporting grassroots events across the

country to provide exposure and build momentum for our society at the local section level. Furthermore, this committee will work with the CSCE in communicating member benefits to sections throughout the country, in a bid to improve membership retention from students to associate members.

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

Young Professionals Committee

Chair: **Rami Mansour**, MAsc., P.Eng

CSCE Student Affairs 2019

Chair: **Charles-Darwin Annan**

Members: **John Gales, Alan Lloyd,**

Ali Imanpour, Saber Moradi

The Student Affairs committee has an important mandate to develop programs and opportunities that will support students, and consequently contribute to the strategic direction of the CSCE – *Growing with the Youth*. In 2019, the Student Affairs committee built on previous years' initiatives to provide students with the resources and opportunities that would help them develop early professional consciousness. One of the major goals for the year was to restructure the management and organization of CSCE student competitions to be more sustainable. There were several major events in 2019.

New Student Competitions Committee.

Through several meetings and exchanges between the Student Affairs Committee, the RCC, and the National office, a new student competitions committee was created under Student Affairs to manage the organization of all CSCE student competitions. A dynamic CSCE member, **Jérémie Aubé**, was appointed the first chair of this subcommittee. A committee's report has been attached. The constitution of the Student Affairs committee remained unchanged in 2019.

Strengthened communication with Student Chapters was achieved through emails, the student affairs website, and articles in the CSCE Civil Engineer Magazine. We also **strengthened communication and collaboration** with the RCC through engagement and meetings with the senior VP.

Resource support for visibility. CSCE 'SWAG' packages (including rulers, stickers, pens, and highlighters) were made available to Student Chapters for the school year kick-off and membership drive. Distribution was on a request basis this year. The Student Affairs website was also updated.

CSCE Student Chapter Annual Reports.

Twenty-six Student Chapters submitted annual reports for the 2018/2019 school year, which were evaluated by the committee members. The annual reports help Student Affairs assess the effectiveness of its programs and serve as basis for selection of the President's awards for outstanding student chapters. BCIT was judged the most outstanding student chapter, while Waterloo and Laval took second and third places, respectively. Ottawa, Western, UBC and UNB received honourable mentions. Award recipients were invited to receive their awards at the 2019 annual conference.

Student Chapter Leaders Workshop. The committee organised its 7th annual student chapter leaders workshop at the CSCE Annual Conference to create a platform for stimulating interaction amongst Student Chapter leaders. Ten student chapters participated in the 2019 workshop.

National CAPSTONE Design

Competition. The committee held a very successful national civil engineering CAPSTONE design competition at the CSCE annual conference. Nineteen Canadian universities participated in this competition, which was won by University of Ottawa, while Waterloo and Laval came second and third, respectively. Thanks go to Anouk Desjardins, James Garland, Jérémie Aubé, Vimy Henderson and Michel Khouday, who judged the competition.

Student Paper Competition.

The committee organised the student research paper competition at the CSCE annual conference. Over 100 entries were received, out of which 20 were shortlisted for oral presentation evaluation. Dr. Pampa Dey of Laval, Dr. Ahmed Soliman of Concordia and Dr. Dahai Qi of Sherbrooke coordinated the competition. Winners?

Canadian Steel Bridge (CNSBC) and Concrete Canoe Competitions (CNCCC).

These competitions were hosted by Polytechnique Montreal, and winners were invited to receive their awards at the 2019 annual conference. Polytechnique Montreal

and ETS won the CNCCC and CNSBC, respectively.

The committee would like to express a heartfelt gratitude to all the competition judges and the many volunteers who worked so hard to make the year a great success. In 2020, the Student Affairs committee will continue to support students and execute its mandate.

Chair: **Charles-Darwin Annan**

Members: **John Gales, Alan Lloyd, Ali Imanpour, Saber Moradi**

CSCE Student Competitions Committee 2019

Chair: **Jérémie Aubé**

The Canadian National Concrete Canoe Competition (CNCCC) and the Canadian National Steel Bridge Competition (CNSBC) both saw success and growth in 2019 with more than 36 teams from 28 universities participating. Over 540 students attended the event hosted by École Polytechnique de Montréal from May 16th to May 19th. These events were the culmination of a remarkable effort and countless hours put in by our student members/future civil engineers on their project throughout the year. A definite highlight of the 2019 edition was the participation, for the first time, of international teams coming from Mexico, Puerto Rico and China. A huge thank you to all the volunteers who pitched in and worked so hard to make this event happen!

Although the competitions were successful, there were challenges and concerns were raised about the sustainability of the competitions and how they are operated. Moving toward future competitions, CSCE board members and the National Office decided to reorganize the processes and appointed Jérémie Aubé, P.Eng., MCSCE, as the Chair of the Student Competitions Committee, a subcommittee working under the Student Affairs Committee.

Since officially taking on this new role in September, Mr. Aubé has been recruiting key team members involved in past competitions for his committee and has been working closely with them and the local organizing committee at Western University (London, ON), who will host the 2020 CNCCC and CNSBC. At the same time, he is focusing his efforts in establishing a more streamlined process and putting in place procedures to restore consistency, continuous growth, and

sustained success to the competitions.

The Canadian Society for Civil Engineering, along with its industry partners, is playing a key role in contributing to the education of future civil engineers through the organization of these competitions. Directly in line with our strategic direction of Growing with youth, the success of the competitions reinforces the positive image of CSCE with students and young professionals, creates a feeling of belonging to CSCE from an early onset, and is a cornerstone in recruiting future members and therefore growing our membership!

Student Competitions Committee

Chair: **Jérémie Aubé**, P.Eng., MCSCE

CSCE Western Region 2019

Vice President: **Min Sun**

Treasurer: **Rishi Gupta**

Vancouver Island Section

Chair: **Jonathan Reiter**

In February 2019, the Section's geographic area included 16 CSCE members, 2 corporate members, 9 Fellows, 3 Life Members, 27 Associate Members and 77 Student Members for a total of 134 members. As of December 31, 2019 the section had a total equity of \$2188.85. The section remains active with the objectives of maintaining a CSCE presence in the local area and supporting the three CSCE strategic directions.

Enhanced Member Services. The Section has undertaken a dinner meeting program that started in October of 2019. The first meeting was held on October 24, 2019 at the University of Victoria on the topic of Prioritized Seismic Resilience and there were 18 attendees.

Local civil engineers have the choice of attending events sponsored by other local engineering groups (ITE, CGS, EGBC) and as such the CSCE Section will be working to build a program of interest to local civil engineers, professors, technologists, and students for learning and networking with topics supplementing those covered by these other groups.

Dinner and other events held by the local section are financially break-even events. As such the section has relied on financial rebates from the National CSCE office and on financial support from the Western Region to help cover expenses.

The National and Western Regional lecture

tours have been very much appreciated and the section takes advantage of these when they are available.

Growing with Youth. The section has a Young Professionals (YP) representative on the executive and this person has been participating in the meetings of the national YP group and bringing ideas and information to the local section.

The section also developed contacts with the University of Victoria CSCE student chapter to support their activities, such as attending the Industry Night event organized by the students. Student engagement in section events is also encouraged by offering reduced rates for student attendance.

Leadership in Sustainable Infrastructure. The section strives to arrange presentations on topics and projects that demonstrate sustainability and sustainable infrastructure. Victoria will be one of the locations where the CSCE National Lecture Tour on climate change will be presented.

One of the section executives also serves on the CSCE National History Committee and is able to be a liaison between the section and this committee. An informal meeting and lunch with current and past members of the CSCE National History Committee was hosted when they were in Victoria on March 13, 2019.

Looking Forward. The section will continue to be the local face of the CSCE, work on building a dinner meeting program, maintain contact with the CSCE Western Region and National initiatives, build on the relationships with the Civil Engineering Faculty and the CSCE Student Chapter at the University of Victoria to add new energy, support and activities to the local section, and work on developing local sponsorships from the civil engineering community for events.

Calgary Section

Chair: **Annie Wang**

The Calgary section had another active year, regularly providing a wide range of presentations and tours to its membership. The general events hosted by the Calgary Section in 2019 included the topics:

- Performance-based Seismic Design of Tall Reinforced Concrete Buildings
- Yoho Wildlife Overpass and Associated Construction
- Estimation of Pile Set-Up Capacity in Design of Driven Steel Piles
- Innovations in Construction –

Supporting the Continuum of Affordable Housing

- Construction of the Crowchild Trail Short Term Improvements project – Presentation and Site Tour
- Smart Mobility & The Future of Transportation, and
- Bridging Communities

Growing with Youth. The Young Professionals Group in Calgary continued with an interesting Speed Mentoring Event in the beginning of the year. The annual Popsicle Stick Bridge competition and the Graduate Student's poster competition remain big hits among the student chapter at the University of Calgary and SAIT, where the Calgary CSCE Section sponsored awards totalling \$1200 for the top participating student teams and presenters. Please see the Section's facebook page at [/www.facebook.com/CSCECalgary](https://www.facebook.com/CSCECalgary), twitter at [/twitter.com/csceCalgary](https://twitter.com/csceCalgary), as well as LinkedIn at <https://www.linkedin.com/company/csce-calgary-section> for photos and updates.

Vancouver Section

Chair: **Oscar Amezcua**

In March 2020, the section will host the CSCE NLT on "Climate Change: Current Issues for Civil Engineering" to discuss future climate projections across Canada and the expected impacts of climate change on our infrastructure. Discussion topics at recent events in the section include:

- Ultra-High-Speed Ground Transportation Study Vancouver-Seattle-Portland
- UBC CSCE Industry Night 2020
- Envision in Action: BCIT North Campus Infrastructure
- The Municipal Process: Why is this taking so long?
- Materials, Methods and Design of FRC/UHPC
- Notice of CSCE Vancouver Section Annual General Meeting

Edmonton and North Alberta Section

Chair: **Hazel Battad**

The Section had a CSCE Young Professionals (YoPro) Group event in October 2019. The Section has also recently had dinner presentations on the following topics:

- Calgary Cancer Centre - A World Class Facility
- LID and Green Infrastructure in Alberta
- Materials, Methods and Design of

FRC/UHPC

The CSCE NLT on Climate Change will be in Edmonton in March 2020. The CSCE Edmonton Section will also be hosting a symposium in May 2020. The theme will be Innovations in Civil Engineering and will focus on technologies and processes and other emerging trends in design and construction.

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

CSCE Prairie Region 2019

Vice President: **Vaibhav Banthia**

The Region's primary focus within the reporting period was to revitalize the Winnipeg Section, which started on the right foot by focusing on selecting a Chair with contacts in academia, consulting, construction, and the government. The forthcoming few periods will define and hopefully establish the Section's place within the landscape of entities offering professional development events for Winnipeg's engineering community. The Region's other two Sections have been very active requiring minimal oversight.

South Saskatchewan Section

Chair: **Roanne Kelln**

The CSCE **Saskatoon Section** was active again this year, hosting multiple events for members and the civil engineering community at large. The strategic direction of "Growing with Youth" is inherent in all activities that we hold, as our Section executive is almost exclusively young professional members. Our executive is easily our own barometer on the needs of young professionals. The strategic direction of "Enhanced Member Benefits" has been addressed by continuing to provide discounted rates for our members for our own events. We also attempt to continually improve our processes for event notifications and email distributions, and our communications with our local sponsors as well. Our events this year included our hallmark Noon Hour Luncheons ("Nooners", as they are known locally, a name with many decades of usage here), our annual popsicle stick bridge competition, our annual general meeting (AGM), and student meet and greets to encourage 2nd year students, i.e. the newest members of the Departments of Civil, Geological, and Environmental Engineering at the University of Saskatchewan, along with

graduate students within these departments, to become CSCE members. In the popsicle stick bridge competition, we added a new trophy made exclusively of popsicle sticks itself for the Professionals' Challenge component, to offer more than just bragging rights to the winning company entry. This was well received by all participants and spectators. We continue to struggle finding people interested in joining our Executive, and as our Executive has gotten smaller, it has been more difficult to organize larger events. We hope this may change in coming years. While the current chair position has not changed personnel for the third year in a row, we do finally have a plan to transition our current vice chair into the chair role in the upcoming year. We are thankful for our local sponsors, as their sponsorship dollars are critical to us successfully delivering our yearly programming.

South Saskatchewan Section

Chair: **Harold Retzlaff**

The Section focused its activities in two of the three Strategic Directions, namely, Enhanced Member Services and Growing with Youth. With respect to the Enhanced Member Services, the Section has hosted three Technical Luncheons, the first on the topic of Saskatoon North Commuter Bridge Construction, the second on the topic Diverging Diamond Interchange Traffic Control – Lessons Learned, and the NLT on Jan. 16th on the topic of Climate Change. With respect to Growing With Youth, the Section has sponsored the Student Chapter's Popsicle Stick Bridge Competition, which was held on February 5th. The Section also sponsors the University of Regina's Engineering 4th Year Project Day.

Winnipeg Section

Chair: Vacant during 2019

To ensure that Winnipeg's engineering community doesn't miss out on CSCE organized professional development events, it was critical that the Winnipeg Section needed to come out of its hiatus of four years. After appointing a Chair for the section in the New Year, the spotlight shifted on selecting a slate of executives and establishing the core framework of the Section. It was prudent for the Section's long term sustainability to understand the missing links within the locally available professional development events and the areas that the Section can focus

on while being in tune with CSCE's strategic directions. The Section hopes to organize its AGM in the coming months followed by other exciting events.

Vice-President, Prairie Region, **Vaibhav Banthia**

CSCE Ontario Region 2019 Ontario Region Summary

by Peter Calcetas, RVP

The Ontario Region has seen some significant changes. We are revitalizing the Ottawa Section and reactivating the Kingston Section. The Toronto Section is continuing to gain strength and is supported by the Durham Section's strong collaboration. We have also established a talent development and succession planning component to our organization by instigating a grooming and mentorship for CSCE Executives. "Deputy" positions are intended to facilitate training and familiarity with key roles in leadership. For the Ontario Region: Deputy Regional VP - Alexandre Andrenkov, Deputy Treasurer - Anastasia Makeeva were created to add resilience to the leadership of the Region.

Enhanced Member Services

The Region supported and encouraged the facilitation of the delivery of content and events led by Toronto Section and Student Chapters. In a further expansion of Member Services, the Region initiated the revitalization and/or re-establishment of two (2) Sections, Ottawa and Kingston. Ottawa was quite active in recent years, and abruptly slowed down. Kingston, was dormant for a number of years and is now being revitalized. Hamilton Section is a target for revitalization and re-establishment, with a tentative candidate for Chair, who has politely declined the role after some additional consideration. The potential for a prospective Waterloo Section is on hold once a Chair and Executive Team can be recruited, much like the Hamilton Section. The Region also participated in National Level Lectures in UHPC FRC and Water Resources, along with locally developed content in water resources, building, structures, infrastructure. An example of increasing member loyalty at the Section can be seen in The London Section's use of a "Dinner Card". Students, Non-Members and Members can all purchase this prepaid loyalty card to attend all seven (7) Section Events for the price of six (6). This

gives the attendees a financial incentive to commit to the events, while also mitigating the financial risk involved in event planning.

Growing With Youth

Significant workshops were provided for Young Professionals, targeted to their specific career development needs thanks to the effort from Toronto Section and Toronto Area Student Chapters. The Ontario Region is proud to contribute the majority of founding members of the Task Forces responsible for National effort in Mentorship with MentorCity and the Information Sharing HUB's (a.k.a. The HUB's) creation and continued development.

Leadership in Sustainable Infrastructure

The Region, with support from the Toronto Section and National Office, delivered the 2019 Innovation Award to York Region at the Regional Fall Council for York. This award ceremony was attended by all Councillors for the York Region Government. The Regional VP, Ontario, presented UHPC FRC to the Heads of all the Ministry of Transportation Ontario's Design and Materials Offices.

Ottawa Section by Paraskevas Mylonas, edited by Peter Calcetas

In my first year as Chair, I met with the executives of the University of Ottawa and Carleton student chapters and exchanged ideas for events and ways to attract more members. In addition, I was able to arrange a meeting with the previous executives of the Ottawa Section to determine who would be willing to continue to be part of the team. At this point the goal is to get a team together willing to be part of and contribute to the chapter in order to organize and promote successful events. We will have next month another meeting with the previous executives and potential new members that potentially will be the new executives.

I have also established a new email was created for the Ottawa Section. Specifically, ottawasection@csce.ca, granted by the National Office. In addition, I received a list of the existing members for the Ottawa Section. To facilitate communication and event coordination, we have identified the need for a website dedicated to the Ottawa CSCE Section. The Section's intention is to create this webpage in the near future. We have received advice on operations from our

Toronto Section Chair and Executive Team, facilitated by our Regional VP as part of enhanced collaboration throughout the Province.

In an effort to build content for future events, the VP Transportation of ARUP was approached to secure a meeting in the near future to discuss potential events.

Kingston Section by Anastasia Makeeva, edited by Peter Calcetas

Currently, waiting for the formal approval of the CSCE National Office & the Board, to formally begin the Kingston Section. In preparation for operations, the Kingston CSCE website is in its development stages; wix.com was chosen as the official platform. A dedicated email account has been created along with an initial mailing list. However, no emails have been sent out as of yet until approval is granted.

A list of potential meet-up spots for monthly meetings and other events was started. Some of the options include: Crave Coffee house, Coffee and Company, Pan Chanco Bakery and Cafe as well as Daft Brewery for Pub nights. All of the potential meeting spots are located in Downtown Kingston (close proximity to most students and young professionals).

Recently, we discovered that the 2016 Innovation in Civil Engineering award was granted to a trio of Engineers from McIntosh Perry. Mr. Quazi Islam works in the same office as I do. In anticipation of creating content for future events, I am sure Mr. Islam, would be more than willing to host a talk about their bridge innovation techniques. Additionally, I was hoping to get a few more members of my team on-board with possible talks/lectures or networking events for the future CSCE members.

As coincidence would have it, my office building is located in close proximity to about 4 other engineering firms, including WSP. Their close proximity to my present location makes it a lot easier to contact their HR directors and offer a possibility of collaboration on a few of the upcoming events.

Going forward, upon official approval of the Kingston Section's establishment, We intend to reach out to the Queen's University

Civil Engineering Department for future collaboration purposes.

Toronto Section by Alexander Andrenkov
The CSCE Toronto Section has had a fantastic 2019-2020 year. The executive committee has 17 active members with 4 part-time volunteers, attending monthly meetings (interchanging between teleconference and in-person) and hosting 8 events during the calendar year. With the growing executive committee, the section has restructured itself to become more strategic and focused. With a dedicated social & digital media director, CSCE Toronto Section now produces modern and clean posters and has an active social media presence with a website, Facebook, LinkedIn, and Instagram accounts. The section also has a dedicated individual responsible for liaising with student chapters, a sub-committee for young professionals, as well as a healthy rate of new executive members.

In terms of events, we have been focusing heavily on our base of students and young professional members. In doing so, we have reduced all student tickets down in price and have hosted a variety of events meant to help youth engage and network. These have included socials, hiring panels, habitat for humanity builds, and a volleyball tournament to name a few. We have also provided our members with an ever-expanding array of events that span the civil field; from geotechnical to municipal, structural, and everything in between. Some of these events have also focused on promoting sustainable infrastructure, such as panel discussions on new mass-transit projects being constructed in Toronto and implementation of LIDs on both municipal and transportation sites.

The section had a few goals to start off the year that we met by December 2019. We hosted 8 events throughout the calendar year that were all cost-neutral, and grew the executive committee from 8 to 17 active members. The section also increased the level of involvement from student chapters by co-hosting a variety of events at universities, engaged young professionals with interesting seminars and socials/activities, and promoted and sustained CSCE membership by directing all event attendees to register with the organization.

The only goal we did not achieve was being

financially sustainable; given that the section did not receive any funds from CSCE national, we were unable to cover the costs of travel to and from the national conference and the workshop. The section has also had difficulty obtaining sponsors to help fund section activities.

Going into the 2020-2021 year, the section has been facing a number of challenges first and foremost being the COVID-19 pandemic. With four events completed in January and February, CSCE Toronto Section has postponed the remainder of the planned events until fall 2020. Continuing with the success of 2019-2020, the section is planning on holding events spanning several various disciplines (geotechnical, municipal, transportation, professional development) as well as a trivia night for young professionals and students. The section also has a posting up for a sponsorship manager who will hopefully help the section get some sponsors and offset overhead costs and lower event tickets. Given the circumstances, the section is quite happy with its performance in 2019-2020 and is looking forward to the 2020-2021 calendar year.

London Section by Julian N. Novick,
edited by Peter Calcetas

The London CSCE Section (London, ON) is unique among the Ontario Region as it continues to co-host events with The Canadian Geotechnical Society held at the Fox and Fiddle, located at King and Wellington Streets. London Section also utilizes a prepaid loyalty card known as The Dinner Card, which allows the cardholder to attend all seven (7) events held throughout the year for the price of six (6) events. The topics covered are quite inclusive, ranging from Civil Engineering with Aboriginal Communities to Geotechnical & Transportation Engineering to Energy to the 100 year retrospective of MTO (Ministry of Transportation Ontario) and Civil Engineering. The perspectives are quite diverse, drawing upon speakers from Academia, Government and Practitioners. This section continues to be a vibrant representation of Civil Engineering in Canada.

Vice-President, Ontario Region
Peter Calcetas

CSCE Quebec Region 2019

Vice President: **Frédéric Brunet**

2019 was a very busy year for the Quebec region. Last June, almost 700 engineers, professionals, students and volunteers gathered in Laval, in the Greater Montréal Area, for the CSCE's 2019 Annual Conference. The theme of the event, which was jointly organized by the region's three sections (Montréal, Québec City and Sherbrooke), was "Growing with Youth." The theme was borrowed from one of the CSCE's Strategic Directions, because the local committee wanted to create an inclusive event and highlight young professionals and students. To that end, young people were invited to take part in all conference activities, such as the CSCE's awards banquet. This was very much appreciated, not only by the young professionals and students, but also by the more experienced members of the society.

In accordance with the Strategic Direction promoting sustainable infrastructure, the Quebec region was proud to nominate Infrastructure Canada for a CSCE national award in the "Award for Governmental Leadership in Sustainable Infrastructure" category. Infrastructure Canada won this award at the national level for the new Champlain Bridge project. This ambitious project received the highest distinction, PLATINUM, according to the ENVISION sustainable infrastructure criteria. The bridge is a flagship project for Montréal and Quebec.

One of the Quebec region's main objectives for the next year will be to improve retention among student members and ensure that there are people to take over each of the student chapters. To that end, one of the regional committee members will be tasked with ensuring constant communication with all student chapters. During the last workshop in November, Lyanne St-Jacques presented the results of a preliminary survey of student members. The results showed that student members would like to be in closer contact with the national organization and would like the opportunity to share their ideas and opinions. The region will undertake the necessary efforts to address their requests and in so doing, encourage the retention of student members.

Montreal Section

Chair: **Jennifer Tran**

The section's executive committee was chaired by Jennifer C. Tran, with Sara Rankohi as Vice President. Gabriella Bédard and Victoria Carlson Smith joined the team as Head of Communications and Secretary, respectively. In total, the Montréal section's executive committee is made up of six members coming from general contracting and engineering firms. Jean-Luc Martel and Ghislain Dionne also acted as section collaborators this year.

Over the last year, the committee organized six regular talks, held on the last Monday of every month. These talks focused on subjects relating to different areas of civil engineering, without being too technically advanced. These talks focused on the use of ultra-high performance fibre-reinforced concrete, transportation, mobility and sustainability management, and a major university project. A cocktail was also organized jointly with the CSCE Young Professionals Group after the talk in September. Like the organization of the career forum, this activity demonstrates the CSCE's willingness to grow with youth. During the event, four engineers who have had a remarkable career shared their journey. Students and professionals were invited to hear their accounts and enjoy an evening of networking, wine and hors-d'oeuvres.

Once again, this year, the section participated in meetings to discuss collaboration between Montréal's professional associations in order to enhance member services. The goal of these meetings was to establish links with other groups, such as the Young Bar of Montréal, the Young CPAs of Quebec and the Forum des jeunes professionnels de l'Association des ingénieurs-conseils du Québec, to name a few. This initiative has allowed for the organization of joint conferences and networking activities, which means a broader variety of subjects and opportunities offered to our members. For example, as an association participating in the fifth interprofessional cocktail organized by the Young Bar of Montreal, The Montréal section was able to invite its members to the event. This event gave young businesspeople, contractors and members of professional associations from different fields in the city the opportunity to develop their network at an informal evening.

Quebec Section

Chair: **Francis-Olivier Biron**

The new chair of the Québec City section is

Francis-Olivier Biron. In total, the committee is made up of twelve members from engineering firms, the Ministère du Transport du Québec, product manufacturers and the Université de Laval, among others. Representatives from the student chapter also sat on the section's committee. This collaboration between professionals and students helps maintain a solid link between the two groups and facilitates the retention of student members. It also helps the section ensure that the student chapter has all of the tools and support it needs to function well and stay active throughout the year.

Over the last year, the committee has organized six talks on topics that included the corrosion of reinforced concrete, the Grise Fiord power plant, located in the country's northernmost inhabited region, and an honorary lecture given by Professor Mario Fafard. These activities had between 15 and 50 participants each. One of the committee's objectives for next year will be to increase the number of participants and expand their target audience. These objectives are part of the CSCE's Strategic Direction promoting enhanced member services.

The Québec City section also organized a career forum where four engineers from different sectors were invited to share their professional journey with student and professional members. This activity is part of the Strategic Direction promoting "Growing with Youth." The career forum helps students define their career objectives and offers an opportunity for them to develop their network of professional relationships. Once again, the section organized its popular lobster dinner to end the season. The goal of this activity is to strengthen relationships between members and to thank partners for their support.

The Québec City section has given itself the goal of increasing its leadership in sustainable infrastructure and organizing activities jointly with various associations in order to diversify the events it offers to members.

Sherbrooke Section

During the last year, the members of the Sherbrooke section committee have been particularly active. They organized around fifteen talks, a worksite visit and a major regional networking evening to connect

professionals and students. Since 2015, the Université de Sherbrooke student chapter has been combined with the professional section to create one unified committee. This decision was made because the section was not very active, and the best way to breathe new life into it was to combine its efforts with those of the student chapter. Last year, the committee was entirely made up of students. Zohra Alaoui took on the role of Chair, RomiAnne Beaudoin was Vice President, Yohan Dulac was Treasurer, and Claudine Sévigny-Vallières and Maxime Bourdeau acted as executive members.

One of the committee's objectives was to organize a variety of activities in all fields of the civil engineering sector in order to serve a much wider target audience. This objective is part of the Strategic Direction promoting enhanced member services. To do this, the committee chose varied talk subjects, including the legal aspect of engineering, engineering consulting, the vision of contractors, construction with innovative materials such as aluminum, engineering management, etc. Furthermore, they organized other original and inspiring activities, such as a visit to one of the biggest worksites in Canada, the REM line. With a high participation rate of around fifty people per activity, it is safe to say that the committee brilliantly achieved its goal as well as that of the national organization.

In order to highlight the excellence and dedication of the Sherbrooke committee, the President of the CSCE presented Zohra Alaoui with a certificate of excellence during the final meeting of the board of directors last November. Zohra Alaoui has now graduated, and has ceded chairmanship to David Boulay-Haineault, who has already begun to organize his committee and establish new objectives for the next year. For example, the group is working on becoming a member of the ASCE. This will allow the Université de Sherbrooke's concrete canoe committee to participate in American competitions. The new committee also wants to host the steel bridge and concrete canoe competitions in summer 2021. The next year is looking very promising for this dynamic team.

Vice-President, Quebec Région:
Frédéric Brunet

CSCE Atlantic Region 2019

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. CSCE activities in the Atlantic Region is overseen by the Atlantic Region Council. The council is comprised of the Vice President, Atlantic Region, Jeff Rankin (Past Vice President, Atlantic Region), Brandon Searle (Region Treasurer) and the chairs of the four Atlantic sections. In order to promote good communication between sections, regional meetings are held every two months throughout the university academic year. The goal is to share ideas and resources resulting in a synergy between sections and a better service to the CSCE members. Additionally, Atlantic Region Council members were in attendance at national meetings, notably the November Workshop event and the CSCE Annual Conference in Laval. These national meetings provide insight on nationwide objectives and upcoming activities across Canada. Furthermore, communication with the national governing body is essential for the progression of our society at the sectional, regional and national levels.

The first edition of the CSCE Regional Awards was held this year. In the past, the Career and Organizational Awards were based solely on a national competition. The competition was restructured in 2019. Competitions are now held at the regional level and the winners progress to the national level competition. The Atlantic Region received great nominations and the council is pleased to name its 2019 winners for all three categories.

- CSCE Excellence in Innovation in Civil Engineering Award, Atlantic Region: Avenir Centre by City of Moncton. Notably, the Avenir Centre won the 2019 National award.
 - CSCE Award for Governmental Leadership in Sustainable Infrastructure, Atlantic Region: Northwest Arm Trunk Sewer Rehabilitation Project by Halifax Water.
 - CSCE Young Professional Engineers Award, Atlantic Region: Brandon Searle.
- The Council is grateful to all participants and people who submitted nominations for the

competition. We are hopeful that this year's success will translate to next year and the future of the competition will continue to gain interest in our region.

East New Brunswick and Prince Edward Island Section

Chair: **Jérémie Aubé**,

The East New Brunswick and Prince Edward Island Section has been active in the society by organizing, hosting and promoting multiple activities throughout the year. The executive section comprised of Jérémie Aubé (Chair), Samuel Richard (Past Chair), François Duguay (Treasurer), Gilles Hébert (Secretary), Serge Desjardins (Student Liaison), Mélissa Losier (Student Representative), Dani LeBlanc (Director, Social Media & Communications and Young Professional Representative), Gérard Poitras (Director) and Sherry Trenholm (Director). Similar to last year and in line with the vision of growing with the youth, the section's primary agenda is to promote student participation and membership at the Université de Moncton (UdeM)'s Faculty of Engineering. Several technical presentations and site visits were offered to CSCE members and other professionals of the area. Everything considered, the section was very active in the community throughout the year.

During the winter semester, the section organized yet another successful edition of its Job Shadowing activity, pairing UdeM students with professionals for an afternoon of exposure to the daily work of a civil engineer. The event started with a networking lunch where all participating students and professionals were able to connect and socialize. The success of this annual event was even captured in the following edition of the CIVIL magazine! The section also hosted technical presentations on the Avenir Centre, on the YWCA Jean E.S. Irving Centre for Women and Children (which included a visit of the facilities) and on the Petitcodiac River Crossing project. It should also be mentioned that the Avenir Centre went on to win the Excellence in Innovation in Civil Engineering Award on the national level at the Annual CSCE Conference in Laval, QC!

At the beginning of the university academic year, the section hosted a presentation introducing CSCE to engineering students from UdeM. Students had the opportunity

to take advantage of the free CSCE membership and register with the help of section representatives. It was a great opportunity to initiate the first contact with the engineering students and to inform them about CSCE activities throughout the year. October was a busy month; offering a technical presentation on the City of Dieppe Downtown Revitalization Plan and a site visit to the TransAqua Wastewater Treatment Plant. In November, the section hosted another successful national course, this time on the Materials, Method and Design of FRP/UHPC. The section also participated in the annual engineering student body's (AEEGUM) Wine and Cheese event, which provided great networking opportunities between students and professionals.

Newfoundland and Labrador Section

Chair: **Helen Zhang**

The Newfoundland and Labrador Section has been continuously active during the past year to raise the profile of the CSCE, grow local membership, and particularly support and cultivate our next generation of civil engineers within the province and beyond. The executive section consists of Baiyu Helen Zhang (Chair), Susann Hickey (Treasurer), Joseph A Daraio (Student Advisor), Yunwen Tao (Student Representative), Gordon Jin (Director), Bing Chen (Director), Gary Caul (Director) and Scott Batt (Director).

The section has a unique bond with the Memorial University Faculty of Engineering and Applied Science, given that five section executive members are faculty members, particularly in terms of supporting student activities and membership promotion on campus. The section co-hosted several student events, co-sponsored student travels for participating in CSCE events outside the province (e.g., CSCE AGM, young professional meetings, and national competitions), and promoted student membership through diverse approaches and events. The section offered four scholarships and awards, including CSCE Convocation Award, CSCE Prize for Best Projects, Tiller Engineering / CSCE NL & LAB Section scholarship, and Ann (Mooney) Bridger / CSCE NL & LAB Section scholarship. The section also supported the CSCE-MUN student chapter to host events such as Civil Night, Engineering Open House, Iron Ring Ceremony, and held several seminars for

students and local members.

In March, a CSCE NL Section Networking Event on Professional Development was organized. Ten senior professional engineers from academia and industries shared career experiences with CSCE student members. In May, a seminar entitled “Advanced stormwater management incorporated into the redevelopment of Toronto’s waterfront” was delivered by Peter Langan (P. Eng., FCSCE, Vice President and Principal of R.V. Anderson Associates Limited). In October, a seminar targeting research on Offshore Mechanics was organized with the invited speaker, Dr. Celso P. Pesce, from University of Sao Paulo, Brazil. Executive members also contributed to Annual Conference meetings, to the November Workshop activities and National Board Meetings. Moreover, we have submitted EIC nominations and CSCE Fellow/Award nominations to further promote civil engineering in NL.

The section has been developing and enhancing beneficial relationships with other professional societies, such as Canadian Geotechnical Society (CGS) St. John’s Chapter, Professional Engineers & Geoscientists of NL (PEGNL), NL Environmental Industry Association (NELA), Canadian Association on Water Quality (CAWQ), and Atlantic Canada Water Works Association (ACWWA). For example, in October, the NL Section, the Northern Region Persistent Organic Pollution Control (NRPOP) Lab at Memorial University and the CAWQ co-hosted PEOPLE Network 2019 symposium (www.people-network.ca) in St. John’s. The symposium was chaired by Dr. Bing Chen (CSCE VP International) along with the organizing committee, consisting 19 members, including Dr. Baiyu Helen Zhang and Joseph A Daraio. There was a very good turnout with around 80 attendees, three opening remarks, three plenary keynote speeches, ten technical keynotes and over forty technical presentations.

Nova Scotia Section

Chair: **Haibo Niu**

The Nova Scotia Section is looking forward to revitalizing the section and promoting CSCE activities. For many years, the section had been dormant. In the Fall, Eric Tynski and Sarah Hanson took the reigns of the section as co-chairs. During their

undergraduate studies, they were involved with the University of New Brunswick CSCE student chapter in Fredericton (NB). They are motivated young professionals and they look forward to bringing CSCE activities to the Dalhousie University and Halifax surrounding areas.

In November, Eric was able to attend the November Workshop and the National Board Meeting. This was a great opportunity to connect with executive members across the nation and to gather ideas and activities for the section. Both Eric and Sarah have played an active role at Regional Council meetings since their engagement in the society. In February 2020, the National Lecture Tour was hosted by the NS Section. This was their first of many activities; which will surely give the section increased momentum. The Atlantic Region Council will continue to work collaboratively with the NS Section to ensure successful and sustainable growth.

West New Brunswick Section

Chair: **Robert Praeg**

The West New Brunswick Section has facilitated networking events for the City of Fredericton and surrounding areas throughout the year; giving students and professionals the opportunity to expand their personal and career development. The executive members are Robbie Praeg (Chair), Brandon Searle (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 Student Chapter), and Connor Blanchard (President, UNB Student Chapter) attend the monthly meetings. Each member plays an important role and greatly contributes to the success of the section.

The section continued into 2019 with the planning and organizing of several technical talks for the community. Jon Lewis, a Transportation Engineer working for the City of Fredericton, shared some of Fredericton’s experience with the use of roundabout intersections and potential locations for new implementations of this type of intersection

within the city. Adam Bell, the Chief Information Officer with the City of Fredericton, delivered a great presentation on the city’s plans to follow their proposal for the nationwide Smart Cities Challenge. The West NB Section partnered with the New Brunswick Section of the Association of Consulting Engineering Companies (ACEC-NB), to organize a joint technical talk, in hopes of creating a synergy and growing membership for both sections. Dr. Laura Richard, Director of the New Brunswick Innovation Foundation (NBIF), and Danielle Connell, Business Development Specialist at Mitacs, spoke about leveraging academic resources in order to find solutions to complex industrial problems for engineers. The results of this joint effort proved to be effective given the great interest and large audience that gathered at the event.

A technical tour was organized by the section as an opportunity to visit and explore the new Kinesiology Building on the UNB Fredericton campus. This event was well attended, and gave the West NB Section another opportunity to work closely with the UNB Student Chapter. The Kinesiology Building, which opened in September 2018, is a 60 000 square foot, state of the art building, which was designed with a significant amount of user input. This tour was led by Craig Hickey, Project Manager at the Energy Management Committee at UNB. The section also linked up with the UNB Student Chapter to assist with the promotion of their Professional Development Dinner, which featured Keynote Speaker, Dr. Brenda McCabe (Senior Vice President, CSCE).

Lastly, the section held a CSCE Fellows recognition dinner that was open to the public. The event was well attended and proved to be an excellent opportunity to celebrate the important contributions made by the local CSCE 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

Glenn Hewus

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.

The year 2019 provided several challenges to the CSCE annual operating budget. Net earnings were negative as a result of lower than expected revenue in our 2019 annual conference, lower membership dues from all categories and higher than expected expenditures concerning extraordinary or non-recurring items.

The 2019 year did see some positive financial gain, bakertilly (our present auditors) were able to obtain a GST/HST remittance refund from the federal government for \$100k. The government was holding this amount since 2017. We saved CSCE about \$40k of office rent payments – early exit lease. We were forced to move from our Old Montreal office because the building was being converted into a boutique hotel.

Our focus remains on increasing our revenue with ongoing efforts in all levels of membership, life-learning and conferences. We need all CSCE members to “be loud, be proud, and be engaged”, by taking part in our membership campaign, attract a corporate member, attend and promote CSCE life-long learning events and conferences.

As a volunteer-based organization, our success rides on our volunteers at the national, regional and local level. We have made several changes since 2017, to ensure that we increase our revenue stream so that we can support the initiatives of our volunteers in sections, division, programs and committees.

In 2019, we have started the process of reducing our expenditure from an external registration system to an inhouse system - our IT is developing our own CSCE system which will be linked to our membership database. A member will be able to register and pay for a CSCE membership, conference and life-long learning webinar course all through our own CSCE system. We need all CSCE members to continue to drive the society's success through their engagement.

The CSCE's financial statements, as audited by bakertilly, are appended to this annual report. The audit covers CSCE's fiscal year of January 1st to December 31st, 2019. 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.

As I close out my term as Honorary Treasurer, I am proud of the work that we have done since 2017 to stabilize the financial position of the society, while acknowledging that the financial challenges facing the society are real. I would like to thank CSCE national office, our executive leadership team, and our volunteers throughout the society for everything you do. I would like to particularly acknowledge Patricia Ricci, CPA, for her tremendous dedication and support.

Looking forward, I believe that we have the people, the ideas, and the resolute to get the society on a solid financial footing.

Glenn Hewus

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, 2019.

CSCE Foundation Financial Position	Year				
	2015	2016	2017	2018	2019
Income					
Interest, dividend income and valuation gains	\$7,852	\$19,120	\$15,069	(\$11,142)	\$42,262
Donations	\$7,246	\$8,778	\$11,795	\$11,386	\$7,720
Expenses					
Awards, administration, publications	\$4,499	\$1,818	\$11,818	\$4,397	\$19,617
Net Change	\$10,599	\$26,080	\$15,046	(\$4,153)	\$30,365
Net Assets					
Foundation Fund					
History Program Fund	\$5,118	\$5,569	\$6,211	\$5,698	\$4,325
Shanley Award Fund	\$13,207	\$14,365	\$14,979	\$15,101	\$16,949
General Fund	\$155,196	\$168,827	\$178,329	\$179,781	\$199,533
Donald Jamieson Fund	\$111,046	\$121,887	\$126,175	\$120,961	\$131,098
Total Net Assets	\$284,567	\$310,648	\$325,695	\$321,541	\$351,905
Percent Growth from Previous Year (Net)	-3.1%	9.1%	4.8%	-1.3%	9.4%
Second Century Fund					
Assets	\$159,650	\$89,170	\$90,634	\$98,071	\$104,681
Percent Change from Previous Year	-	-44.1%	1.6%	8.2%	6.7%

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 2019, 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 2019, 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 (2019): 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

THE CORPORATE MEMBERSHIP REPORT:

CSCE's strength and credibility are based on its membership, the quality and relevance of its advocacy work, development of leading practice and sharing of knowledge

GOAL SET FOR 2019

Increase the Corporate membership rate to 15% in the Canadian Engineering communities

We have had a **20% INCREASE** in our Corporate Membership welcoming 5 new members.

1 Major Partner, 1 Partner and 3 Affiliates

We have also kept members that were considering leaving and a few members chose not to renew.

We presently have 31 Corporate Members

- 3 Major Partners
- 9 Partners
- 19 Affiliates

2019 CORPORATE MEMBERSHIP RECRUITMENT CAMPAIGN:

Phase 1 - Recruitment campaign

Video message from President Glenn Hewus INCENTIVE FOR CORPORATE MEMBERS

You are currently a Corporate Member and extend the invitation to join CSCE to an additional three of your employees; we will award you an extra individual membership, courtesy of CSCE.

INCENTIVE FOR INDIVIDUAL MEMBERS

You are an individual member and extend the invitation to your organization to join CSCE, we will award you your membership, courtesy of CSCE.

Phase 2 - CSCE CONNECT.

Corporate Membership Connection Plan.

Messages from **President Michel Khouday** to all CSCE Ambassadors

2 NOTIFICATIONS via e-mail FROM Michel Khouday to Ambassadors

Call day set for the 15th of October.

The objective is to invite the leaders of the **Regions and Sections as well as former presidents and CSCE leaders** to contact 3 corporations they would introduce to the CSCE corporate membership plan.

Unfortunately none of the Ambassadors made calls and no leads were created by this Connection plan.

CORPORATE MEMBERSHIP ENHANCED VISIBILITY:

- o Featured Corporate Members listed in the e-bulletin.
- o We have introduced a section in the weekly e-bulletin featuring a corporate member of the week.
- o Welcome of new Corporate Members introduced in our CSCE Civil Magazine

LOOKING FORWARD:

Recruiting the best CSCE Ambassadors to attract new Corporate Members

THE STRENGTH OF THE GROUP IS THE STRENGTH OF THE LEADERS.

GREAT THINGS IN BUSINESS ARE NEVER DONE BY ONE PERSON. They're done by a team of people.

Opportunities

- ✓ JOINING CSCE MAKES GOOD BUSINESS SENSE

CSCE CORPORATE MEMBERSHIP ECOSYSTEM

- ✓ Professional Engineering Services
- ✓ Construction material suppliers
- ✓ Raw material suppliers
- ✓ Builders
- ✓ Government & Agencies
- ✓ Education and R&D Centers
- ✓ Professional Associations
- ✓ Related professional services

Beyond their Corporate membership to CSCE as a learned society, current Corporate members are more interested in how the CSCE can improve their business not only in new opportunities (contracts) and knowledge but in networking.

- The face to face – personal contact is the way to consolidate the relationship with CSCE present corporate members and initiate NEW Members.
- Local events organized by the Sections or Regions would give the corporate members more information about what CSCE can do for them.
- Local Section, Regional chairs, former Presidents, inviting present corporate members to a lunch or private meeting to discuss their involvement.
 - To use CSCE events, courses and other tools to position the corporate member and offer them opportunities to showcase the services or products.

NATIONAL CONFERENCE COMMITTEE

November 2019 - Mid Year Report
Chair: **Graham Sterparn**, P.Eng., FCSCE

National Conference

- Financial Policy of National Conference was elevated to National Management Committee during November 4, 2017 Conference Committee Meeting.
- National Office is updating the conference calendar.

National Conference

- Saskatoon 2020 – Status Report and Presentation to National Board
- Niagara on the Lake 2021 – Status unknown.
- Western 2022 – Presentation to National Board in November 2019.

Regional Conferences/Symposium

Sections interested in hosting One-Day Symposiums

- The Edmonton Section of the Western Region is planning to host another One-Day Symposium in 2020.

Possible Policy Coordination between National & Regions for One-Day Symposiums

- Regional One Day Symposium planning document outline to be completed in 2020.
- Questions regarding the legal authority of Regions or Sections to enter into contracts using the CSCE are to be discussed further by National Office.
- Financial risk mitigation has been touched on and needs further discussion at the National Office level to develop a policy.
- Time and geographical separation of Regional Conferences vs National Conference to be finalized. Possible policy to be developed.

Technical Stand-Alone Conferences

- Building on Gopal's initial statement regarding the Stand-Alone Technical Conferences, discussions have taken place during at the meetings and teleconferences to develop a framework to guide Technical

Divisions to put on a Stand-Alone Conference.

- Discussions on the proper time and geographical separation of Stand-Alone Conferences vs National Conference to be finalized. Possible policy to be developed.

Status of 2019 Committee Plans from April Report

- 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 and Stand Alone Technical conferences to augment the National Conference.
- National Conference Guide has been updated and awaiting input from some others to complete.
- Upon completion and acceptance of the updated National Conference Guide the development of the Stand-Alone Conference Guide for Regional and Technical Stand-Alone Conferences will commence.

Additional Items for further development of Conference Committee

- Increase Presentation Tracks to include:
 - o Academic Achievement
 - o Professional Development and
 - o Practical Application of the Academic
- Follow up on presentations from previous conferences.
- How to make CSCE relevant to all Civil Engineers?
- Develop a historical listing of all Technical Divisions participation in National Conferences.
- Develop a historical listing of all Technical Divisions participation in Stand-Alone Conferences.
- Develop an Historical List of S&MS Bridge Conferences.

Conference Committee Budget

As for **Budget**, again as I am not sure what travel, meals, printing costs, etc., I would be allowed to charge back to the CSCE, therefore I am not sure what to submit for a budget. Further discussion would be helpful to confirm the expectations of this

position within the CSCE. In lieu of not knowing what I could charge to the CSCE, I am requesting a budget of \$2500.00. The use of this budget would be allowed only under the approval of the VP ACC.

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

NATIONAL HISTORY COMMITTEE ANNUAL REPORT FOR 2019

(01 January to 31 December)

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

The Committee includes 20 members from BC, Alberta, Saskatchewan, Québec, Nova Scotia, New Brunswick and Ontario. Six regular Teleconference Meetings have been held throughout the year plus one at the Annual Conference. During the year, the Committee welcomed as new members Mathieu Doyer (Montréal) and Sarah Soleimanifar (Edmonton).

The identification and commemoration of National Historic Sites continues to be one of the Committee's principal activities. The Committee has been working with Cal Sexsmith of the Local Organizing Committee for the 2020 Saskatoon Conference on the Historic Site Commemoration for the South Saskatchewan River Project. In 2019, Frédéric Brunet co-ordinated the commemoration of the William Collector and Montréal Métro at the Laval Conference. 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 79 existing historic site plaques. Since the last report, the Centre Street Bridge plaque, unveiled in 2006, has been found and erected. New plaques have been erected at Blackfriars Bridge, the Egerton Sewer, the William Collector and the Montréal Métro.

The 2019 Gordon Plewes Award was awarded to Dr. Roger A. Dorton, a most deserving recipient.

The Memorandum of Understanding between Catherine Davidson, University Librarian at the Library of the Ontario Tech University and the CSCE to make

OTU the repository of CSCE archival material. An Advisory Committee has been struck.

A Master of Arts in Public History Intern, Louisa Orford, was hired during the summer of 2019 to support activities of the National History Committee. Her responsibilities included: reviewing and cataloging archival information (seven boxes of materials were shipped to OTU in August); assisting with revisions to the online descriptions of the CSCE Historic Sites; and, developing criteria to conduct oral history interviews of eminent civil engineers. Funding of \$7500 from the CSCE Foundation Fund and the History Program Fund, matched with \$7500 from Mitacs supported Louisa and is gratefully acknowledged.

Work is continuing to upgrade the material on the History Committee Website, www.cscehistory.ca. The Terms of Reference of the NHC were updated, and descriptions of the various National Historic Sites are being revised using a standard template to achieve better consistency. A Social Media Task Force has been struck to develop and implement new social media initiatives starting in 2020. A new priority for 2020 will be the migration of the History Committee Website back to the CSCE domain.

The Sesquicentennial History Display material, created for Canada's sesquicentennial in 2017 and exhibited at the 2018 Annual Conference in Fredericton and the 2019 Conference in Montreal is being shipped to Saskatoon. It is hoped that some of the posters will be displayed at the 2020 conference, and at other public venues around Saskatoon.

So the National History Committee is enhancing member services by improving its website and creating a proper archives at OTU, growing with youth by adding two new members and exploring social media initiatives, and demonstrating leadership in sustainable infrastructure by continuing to celebrate historic examples of sustainable Canadian infrastructure.

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 2019-20

Gordon Jin, P.Eng., F.CSCE, 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.

At the Awards for Civil Engineering Excellence Gala, in June 2019 in Laval, Quebec, ten (10) members of CSCE were awarded the status of Fellow, the winner of the Donald Jamieson Fellowship plus various Best Paper Awards were announced, and five members were 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 respective winners compete for the national title, with the winners announced at the CSCE Annual Conference during the Awards for 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., F.CSCE, FEC, FEIC
Chair

Member Services Committee, Report from National Office

Lynne St. Jacques, Director, Marketing & Communications

The Member Services Committee was subject to many changes in 2019, all for the benefit of our members. While most on-going projects were brought to fruition, the scope and priority across them had significant shifts, as did the mandate of the committee itself.

In early Spring, the long-awaited CSCE HUB platform was launched to all members. While it was well received, user activity quickly taught us that the primary feature of this platform would be the library, or document sharing capability. Now used as the report storage platform for the CSCE History Committee and others, this user-friendly mobile library is now recognized across the society.

Moreover, the CSCE Annual Conference saw some big changes in 2019 that were significant for our members, particularly our student members. For the first time, there was a very strong student presence across the conference, but also at the awards ceremony. It was strongly requested by the co-chairs of the conference, both of which were YP's, to include the student awards in the traditional awards ceremony. This was done and very well received, in fact, it was decided that this would be the new tradition going forward.

Having two YP's co-host the conference was also a first for CSCE, and a significant example of how we are putting our members first. CSCE is making conscious strides to give opportunity to members of all levels to help them gain experience and exposure. This also allows CSCE to stay ahead of trends by being open to input by those who are newest to the industry.

During the ACC meeting at the conference, discussions were centered around the existing committees, the relevance of their mandates and the level of initiative and resources around their buckets of work. The result of which drove the need for a new committee to be formed to centralize all member related matters and to have representation from all levels of membership, in order to best understand the range of needs. This new Membership Committee, will be announced in more detail in 2020. This committee will also absolve both the Member Services Committee as well as the Communications Committee.

The first and pressing mandate of this new committee was to refresh the member offer. Including benefits, opportunities and ways in which members can get involved with our engineering practice initiatives. This was done in a many steps.

1 – Research. CSCE leans heavily on Engineers Canada, Statistics Canada and other professional organizations to stay on top of trends in the civil engineering profession, such as: trends by discipline, migration across regions and the growing resource crisis, amongst others. Research that was done in early Fall strongly influenced the creation of many new sources of member support that are now available online including immigration support, market trends and licensing support.

2 – Competitive Analysis. Staying on top of our competitors' offers is a large part of staying current and understanding what civil engineers are looking for in terms of benefits. This also helps us to know where we have gaps in our offer and where we rank ahead. After cross referencing our benefits against both ASCE and ICE, our most comparable associations, as well as

some of the more discipline specific groups, CSCE ranks very competitively. With minor gaps in professional services and support for recent graduates, CSCE showed more opportunity with regards to sustainability initiatives, international opportunities and immigration support.

3 – Survey. A survey was distributed to the Presidents of the student chapters in the Quebec Region, as a start, to obtain some initial feedback from graduating students. The purpose was to gather information as to what type of support or benefits they would want in order to stay on as Associate members. The data collected was used to flush out the new member benefits. The survey will be sent out to the remain student chapters to further refine the offer.

4 – Complete overhaul of benefits and other communication initiatives. While new benefits and opportunities were added to the line-up, a complete overhaul of how our benefits are presented was also done to better communicate the range of what's available. Now on our website, members can search by membership level and then through fifteen plus categories of support. Learn more about this at csce.ca/benefits.

5 – Mentorship. It was very evident in the research, surveys and conversations that were had with our student members that mentorship must be a priority for CSCE. More than half of the student members rely on their mentor to get them a job, and all of these members are looking to CSCE to help with mentorship and job opportunities. While mentorship was always available at CSCE, new strategies are in discussions and will be implemented in 2020.

Other areas of membership that the committee will be responsible for are; levels, dues, communications and growth.

Looking ahead, we feel confident that this committee is the right direction for CSCE. Working with members across Canada will give us unique perspectives from each region, and across the levels of membership will allow us to take a wholistic look at the needs of all members and how well we're meeting them.

On a final note, we look forward to sharing new initiatives in 2020 to reflect CSCE's vision 2030. Stay tuned and as always, stay in touch. CSCE is always open to suggestions to help serve you better.

Lyanne St. Jacques, Director, Marketing & Communications

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

Engineering Mechanics and Materials (EMM) Division

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

The mission of the Engineering Mechanics and Materials (EMM) 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.

EMM Division Membership:

Dr. Muntasir Billah, Secretary of EMM division of CSCE is actively working on boosting up the membership. EMM division has already introduced several sub-committees and their corresponding leads earlier to further increase its memberships and their relevant activities and make substantial contributions to the engineering profession and the society.

CSCE EMM Conference 2019

The Division actively worked last year to organize the 7th International Conference on Engineering Mechanics and Materials (2019 CSCE Annual Conference) which was held in Laval, Greater Montreal, QC Canada, June

12-15, 2019. As a part of this conference, the Division organized 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 invited two keynote speakers to make presentations at the conference.

Keynote Speeches:

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"

EMM Division Meeting: CSCE Division meeting took place on June 12, 2019, at Terrebonne, 1st Floor, Sheraton Convention Center, Laval, QC from 4:30 to 6 PM. The division invited all members to participate where each group leader of different clusters gave a 5-minute presentation.

Best student presenter awards: Three best student paper awards were given out in the 7th International Conference on Engineering Mechanics and Materials during the 2019 CSCE Annual Conference in Laval.

Undergrad student travel grants: A total of six travel grants were awarded to undergraduate students to present their papers at the 7th International Conference on Engineering Mechanics and Materials during the 2019 CSCE Annual Conference in Laval. Faculty members (CSCE membership required) nominated their students. These undergraduate students were the lead authors and presenters, and were CSCE student members.

CSCE EMM Conference 2020

The EMM Division has been actively working this year to organize the 8th International

Specialty Conference on Engineering Materials (2020 CSCE Annual Conference) which was supposed to be held in Saskatoon, SK Canada, from May 27-31, 2020. As a part of this conference, the division was planning to organize several special sessions and a panel discussion, featuring 3 to 4 experts including academics and practicing engineers. Furthermore, there were two keynote speakers to make presentations at the conference. However, due to the current situation, CSCE Annual Conference 2020 has been cancelled. Although the conference has been cancelled, we are still finalizing the review of the submitted papers. We are planning to publish the articles in this year's proceedings. However, the authors can decide whether they wish to publish this year or not.

The EMM Division, like the previous years, will be continuously supporting its members by providing awards and travel grants in the future events.

Best student presenter awards: Three best student paper awards will be given out in the next year's CSCE Annual Conference.

Undergrad student travel grants: A total of six travel grants will be awarded to undergraduate students to present their papers at the next year's EMM conference. Faculty members (CSCE membership required) will be nominating their students. In order to get nominated, the undergraduate students need to be the lead authors and presenters and should be CSCE student members.

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**, P.Eng.

Construction Division

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

The construction division was active during 2019, especially during its first half for the preparation and the organization of the 7th International Conference on Construction (ICC-CSCE 2019) jointly with the research congress (ASCE) and for the organization of the student colloquium.

During this year, several other activities took place. Farnaz Sadeghpour chaired the CSCE Technical Publications Committee. 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. Professor Carl Haas of Waterloo was the recipient of the 2019 Alan Russell Award. The new Moselhi award for the best construction conference paper was given for the first time during the ICC-CSCE 2019 conference. The division also had its general assembly at the CSCE 2019 conference in Laval. Adel Francis updated the division's website and published a paper "Trends in the construction industry: status, evolution and limits" for the winter issue of Canadian Civil Engineer magazine "Where Civil Engineering is growing".

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

Environmental Division

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

The Environmental Division general meeting was held on June 12 (Wednesday) during the CSCE 2019 conference in Montreal. We however had a lower than expected number of attendants, and comments were made regarding the date of the general meeting and the availability of our members. A decision was made to move the date of future Environmental Division general meeting to the third day of the annual conference (Friday). A mass email will also be sent by the Chair a month before the general meeting to allow better traveling arrangement of our members.

In 2019, the Environmental division has been involved in the organization of the 18th International Environmental Specialty

Conference, held in conjunction with the 2020 Saskatoon annual conference. Kelvin T. W. Ng has agreed to chair the Environmental Specialty conference in 2020. With the help from our reviewers, over 10 conference themes were identified. The Division received over 50 abstracts by the end of December.

In line with the three strategic directions, the electronic mailing list of the Division has been continuously updated to enhance member service. Messages regarding conferences and related events have been circulated to our members using the updated list. The division also supports student paper competition, and other events led by students and young professionals.

A focus of the Division for the upcoming year will be sustaining our leadership in sustainable infrastructure. The Division will support our members by disseminate and share knowledge through organizing workshops and contributing articles to the Canadian Civil Engineer Magazine.

Chair: **Dr. Kelvin T. W. Ng**, PhD, 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. 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 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 2019 AGM)

- b. Supporting the President's Task Force on Accessibility (workshop at 2019 AGM)
- c. Recruitment of Indigenous youth recruitment into civil engineering (see 2019 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!

Members: **Gord Lovegrove** (as VP defacto), ToR: to come from Elena, then we go out via CIVIL and CJCE with ToR and call for members – willing AND able to spend 2 hours per month working on things – to get things done.

Nothing reported, be 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.

Technical Team Leads

Committee	Chair
Chair, Engineering Practice mark.scanlon@stantec.com	Mark Scanlon
Chair, Education and Research Elena.Dragomirescu@uottawa.ca	Elena Dragomirescu
Chair, Asset Management mbenson@rvanderson.com	Mike Benson
Chair, Technical Publications farnaz@ucalgary.ca	Farnaz Sadeghpour
International Affairs huangj@uoguelph.ca	Dr. Jeanne Huang

Annual Reports for each Technical Team

Engineering Practise Committee

Chair: **Mark Scanlon**

Nothing reported, being revitalized
Will discuss with Gopal on members, then seek a chair.

One topic for national training to recommend as a BEST Practise / Joint with SDC – Envision lecture tour across Canada – do in partnership with CSCE Student Chapters/ISI Canada/CSCE NLT/CSCE HQ:

ISI pays for Melissa Peneycad's time and meals; CSCE pays for her flights & hotels
Locations: (4 or 5 locations – flights(\$400) & hotel(2 nights) – per region) – budget ask for 2020 = \$5,000

1. Vancouver/Kelowna
2. Saskatoon/Regina
3. Ottawa/Montreal
4. Maritimes
5. Printing materials – memory sticks?

Registration administration – CSCE HQ or ISI Canada – whoever 'pays' for – their costs 'invested' in return for access to registration list/CSCE members – do we open it up to member/non-member/student pricing?

Education and Research Committee

Chair: **Elena Dragomirescu**, P.Eng.
Associate Professor, University of Ottawa

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 and 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.
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.
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

Chair: **Farnaz Sadeghpour**, U of Calgary
 Membership: **Adel Francis, Jeff Rankin, Ahmad Jrade, 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:

Report of the CSCE Nominating Committee (2020–2021)

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
Past President	Glenn Hewus, end of term	Michel Khouday	1 yr
President	Khouday, end of term	Catherine Mulligan	1 yr
President-Elect	Mulligan, end of term	Brenda McCabe	1 yr
Senior Vice-President and Chair, Regional Coordinating Committee	McCabe, end of term	Wade Zwicker	1 yr
Honorary Treasurer	Hewus, finishing 2nd yr	Mark Scanlon	2 yrs
Vice-President, Administration Coordinating Committee	Zwicker, finishing 5th yr	Peter Langan	2 yrs
Vice-President, Technical Divisions and Committees	Achari, finishing 5th yr	Gopal Achari	1 yr
Vice-President Technical Programs	Lovegrove, finishing 2nd yr	Gord Lovegrove	2 yrs
Vice-President, Atlantic Region	Richard, finishing 3rd yr	Samuel Richard	1 yr
Vice-President, Quebec Region	Brunet, finishing 3rd yr	Frédéric Brunet	1 yr
Vice-President, Ontario Region	Calcetas, finishing 2nd yr	Peter Calcetas	2 yrs
Vice-President, Prairie Region	Banthia, finishing 1st yr	Vaibhav Banthia	1 yr
Vice-President, Western Region	Sun, finishing 2nd yr	Graham Mackenzie Walker	2 yrs
Vice-President, International Region	Chen, finishing 2nd yr	Bing Chen	2 yrs
Member at Large representing Corporate Members	Langan, finishing 4rd yr	Glenn Hewus	2 yrs
Member at Large representing Heads and Chairs	Palermo, finishing 1st 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)	Mario Ruel, 1st yr	Ian Moore	1 yr
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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 7th yr	Charles–Darwin Annan	1 yr
Chair, Young Professionals Group	Mansour, finishing 2nd yr	Rami Mansour	1 yr

REPORTING TO VICE PRESIDENT, INTERNATIONAL

International Affairs Committee	Huang, finishing 1st yr	Jeanne Huang	1 yr
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ADMINISTRATION COORDINATING COMMITTEE

Chair, Communications Committee	Arbuckle, finishing 2nd yr	Committee folded	
Chair, Conference Committee	Sterparn, finishing 5th yr	Graham Sterparn	1 yr
Chair, Corporate Engagement Committee	Gilliland, finishing 1st yr	To be determined	TBD
Chair, National History Committee	Bartlett, finishing 2nd yr	Mike Bartlett	1 yr
Chair, Honours and Fellowships Committee	Jin, finishing 3rd yr	Gordon Jin	2 yrs
Chair, Membership Services Committee	Dalo, finishing 4thyr	Committee folded	

PROGRAMS COORDINATING COMMITTEE

Technical Divisions & Committees

Chair, Cold Regions Division	Follett, finishing 4th yr	Matthew Follett	1 yr
Chair, Construction Division	Francis, finishing 3rd yr	TBD	1 yr
Chair, Engineering Management Committee	Katsanis, finishing 6th yr	Constantine Katsanis	1 yr
Chair, Engineering Mechanics/Materials Division	Alam, finishing 4th yr	Shahria Alam	1 yr
Chair, Environmental Division	Ng, finishing 2nd yr	Kelvin Ng	1 yr
Chair, Hydrotechnical Division	Mazurek, finishing 5th yr	Kerry Mazurek	1 yr
Chair, Innovation and IT Committee	Akhras, finishing 6th yr	George Akhras	1 yr
Chair, Structures Division	El Damatty, finishing 5th yr	Ashraf El Damatty	1 yr
Chair, Sustainable Development Committee	Black, finishing 1st yr	Kerry Black	1 yr
Chair, Transportation Division	Qiu, finishing 6th yr	Michel Khouday	1 yr

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 2nd yr	Farnaz Sadeghpour	1 yr
Editor, CJCE	Biswas, finishing 5th yr	Nihar Biswas	1 yr
NLT Coordinator	Garland, finishing 6th yr	James Garland	1 yr

Membership Statistics – 2019

Comparative Statistics Comparative

	Count
Fellow	164
Member (Corp, US & Intl, New)	838
Associate Member (1-4)	134
Technical/Professional Affiliate	6
Technologist (1st +)	4
Retired Member	7
SUB TOTAL - FULL PAYING MEMBERS	1153
GRAND TOTAL	4022
Comparative	Count
Life Member	167
Fellow Life Member	123
Fellow Retired Member	12
SUB TOTAL - MISC	302
Student	2567
GRAND TOTAL	4022

Regions Statistics Regions

	Count
Atlantic	335
Ontario	1455
Prairie	248
Quebec	770
Western	981
SUB TOTAL - CDN	3789
Foreign	233
GRAND TOTAL	4022

Membership Statistics Membership

	Count
Membership - Member	674
Membership - Life Member	167
Membership - Fellow	164
Membership - Retired Member	7
Membership - Student Member	2567
Membership - Associate Member (1st Year)	33
Membership - Associate Member (2nd Year)	54
Membership - Associate Member (3rd Year)	30
Membership - Associate Member (4th Year)	17
Membership - Fellow Life Member	123
Membership - Fellow Retired Member	12
Membership - Affiliate Member	6
Membership - Technologist Member	4
Membership - Corporate Member	105
Membership - Corporate Associate	1
Membership - Corporate Fellow	3
Membership - Sustaining	58
Grand Total	4022
Membership	Count
SUB TOTAL - CDN	3789
TOTAL Foreign & US	233
Grand Total	4022

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

Zhengzhou University

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING
FINANCIAL STATEMENTS
FOR THE YEAR ENDED DECEMBER 31, 2019

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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, 2019, 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, 2019, 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

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.

INDEPENDENT AUDITOR'S REPORT

- ♦ 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.
- ♦ 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.R.L./LLP

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Montréal, Québec
May 28, 2020

¹CPA auditor, CA, public accountancy permit No. A114616

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING
STATEMENT OF FINANCIAL POSITION
AS AT DECEMBER 31, 2019

	2019	2018
ASSETS		
Current		
Cash and cash equivalents (Note 3)		
Unrestricted	\$ 300,399	\$ 316,675
Restricted	104,681	98,071
Accounts receivable (Note 4)	87,715	74,107
Government remittances receivable	9,856	111,757
Conference advances	10,168	12,164
Prepaid expenses	<u>23,423</u>	<u>5,374</u>
	536,242	618,148
Property and equipment (Note 5)	4,904	2,343
Software (Note 6)	<u>42,853</u>	<u>36,949</u>
	<u>\$ 583,999</u>	<u>\$ 657,440</u>
LIABILITIES		
Current		
Operating demand loan (Note 7)	\$ 313,087	\$ 143,765
Accounts payable and accrued liabilities	173,455	106,956
Government remittances payable	-	16,434
Deferred revenue	76,679	51,912
Unearned competition revenue	-	33,777
Current portion of transfer payable - Second Century Fund (Note 8)	<u>1,356</u>	<u>1,356</u>
	564,577	354,200
Transfer payable - Second Century Fund (Note 8)	<u>1,356</u>	<u>2,712</u>
	<u>565,933</u>	<u>356,912</u>
NET ASSETS		
Second Century Fund	104,681	98,071
Unrestricted	<u>(86,615)</u>	<u>202,457</u>
	<u>18,066</u>	<u>300,528</u>
	<u>\$ 583,999</u>	<u>\$ 657,440</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, 2019**

	2019	2018
SECOND CENTURY FUND		
Balance, beginning of year	<u>\$ 98,071</u>	<u>\$ 90,634</u>
Repayment of transfer payable (Note 8)	1,356	1,356
Interest earned on transfer payable	54	81
Donation received	<u>5,200</u>	<u>6,000</u>
	<u>6,610</u>	<u>7,437</u>
Balance, end of year	<u><u>\$ 104,681</u></u>	<u><u>\$ 98,071</u></u>
UNRESTRICTED		
Balance, beginning of year	<u>\$ 202,457</u>	<u>\$ 181,744</u>
Net (loss) earnings	<u>(289,072)</u>	<u>20,713</u>
Balance, end of year	<u><u>\$ (86,615)</u></u>	<u><u>\$ 202,457</u></u>

See accompanying notes

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING
STATEMENT OF REVENUES AND EXPENDITURES
FOR THE YEAR ENDED DECEMBER 31, 2019

	2019	2018
Revenue		
Membership fees		
Full members	\$ 205,675	\$ 218,861
Corporate	65,372	72,119
Sustaining members	19,200	17,600
Institutional members	-	550
Communications		
Magazine	13,131	50,073
Other	14,318	13,594
Lifelong learning	169,211	108,788
Annual conference	463,410	435,829
Specialty conference	-	634,542
Interest	6,944	7,634
Other	727	38,533
	<u>957,988</u>	<u>1,598,123</u>
Expenditures		
Administration	444,871	407,647
Communications	25,023	78,203
Lifelong learning	125,331	92,638
Rebates to regions and sections (recovery)	-	(15,885)
Committees and Board	88,161	89,093
Annual conference	414,398	365,612
Regions and sections distribution of annual conference	18,506	23,087
Specialty conference	-	439,947
Specialty conference distribution	-	19,460
National office conference expenses	38,662	20,085
Awards and sponsorship	14,750	11,500
Interest on transfer payable - Second Century Fund (Note 8)	54	81
Financial charges	39,287	22,087
Bad debt	16,187	8,363
Other	1,773	1,831
Amortization - property and equipment	3,990	1,794
Amortization - software	16,067	11,867
	<u>1,247,060</u>	<u>1,577,410</u>
Net (loss) earnings for the year	<u>\$ (289,072)</u>	<u>\$ 20,713</u>

See accompanying notes

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING
STATEMENT OF CASH FLOWS
FOR THE YEAR ENDED DECEMBER 31, 2019

	2019	2018
Operating activities		
Net (loss) earnings for the year	\$ (289,072)	\$ 20,713
Adjustments for		
Amortization - property and equipment	3,990	1,794
Amortization - software	<u>16,067</u>	<u>11,867</u>
	(269,015)	34,374
Net change in non-cash working capital items		
(Increase) decrease in accounts receivable	(13,608)	9,790
Decrease (increase) in government remittances receivable	101,901	(75,679)
Decrease (increase) in conference advances	1,996	(2,016)
(Increase) decrease in prepaid expenses	(18,049)	672
Increase in accounts payable and accrued liabilities	66,499	29,683
(Decrease) increase in government remittances payable	(16,434)	8,972
Decrease in due to regions and sections	-	(41,995)
Increase (decrease) in deferred revenue	24,767	(22,259)
(Decrease) increase in unearned competition revenue	<u>(33,777)</u>	<u>13,658</u>
Cash used in operating activities	<u>(155,720)</u>	<u>(44,800)</u>
Investing activities		
Purchase of property and equipment	(6,551)	(2,112)
Purchase of software	<u>(21,971)</u>	<u>(25,500)</u>
Cash used in investing activities	<u>(28,522)</u>	<u>(27,612)</u>
Financing activities		
Increase in operating demand loan	169,322	63,924
Interest earned in transfer payable - Second Century Fund	54	81
Decrease in transfer payable - Second Century Fund	(1,356)	(1,356)
Repayment to Second Century Fund	1,356	1,356
Donation to Second Century Fund	<u>5,200</u>	<u>6,000</u>
Cash provided by financing activities	<u>174,576</u>	<u>70,005</u>
Decrease in cash and cash equivalents	(9,666)	(2,407)
Cash and cash equivalents, beginning of year	<u>414,746</u>	<u>417,153</u>
Cash and cash equivalents, end of year	<u>\$ 405,080</u>	<u>\$ 414,746</u>
Cash and cash equivalents consist of:		
Cash and cash equivalents	\$ 300,399	\$ 316,675
Cash - restricted	<u>104,681</u>	<u>98,071</u>
	<u>\$ 405,080</u>	<u>\$ 414,746</u>

See accompanying notes

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING

NOTES TO THE FINANCIAL STATEMENTS

AS AT DECEMBER 31, 2019

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

These financial statements have been prepared in accordance with Canadian accounting standards for not-for-profit organizations and include the following significant accounting policies:

(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.

(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 and accounts receivable.

Financial liabilities measured at amortized cost include operating demand loan, accounts payable and accrued liabilities 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.

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING
NOTES TO THE FINANCIAL STATEMENTS
AS AT DECEMBER 31, 2019

2. Significant accounting policies (cont'd.)

(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, over 5 years for the database software and over 5 years for website costs.

(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.

(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 1.25%, maturing between April 2020 and September 2020 (2018 - bearing interest at 0.9%, maturing between May 2019 and September 2019).

4. Accounts receivable

	<u>2019</u>	<u>2018</u>
Trade receivables	\$ 87,715	\$ 74,856
Allowance for doubtful account	<u>-</u>	<u>(749)</u>
	<u>\$ 87,715</u>	<u>\$ 74,107</u>

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING
NOTES TO THE FINANCIAL STATEMENTS
AS AT DECEMBER 31, 2019

5. Property and equipment

	<u>2019</u>			<u>2018</u>
	<u>Cost</u>	<u>Accumulated amortization</u>	<u>Net</u>	<u>Net</u>
Property and equipment	<u>\$ 30,311</u>	<u>\$ 25,407</u>	<u>\$ 4,904</u>	<u>\$ 2,343</u>

6. Software

	<u>2019</u>			<u>2018</u>
	<u>Cost</u>	<u>Accumulated amortization</u>	<u>Net</u>	<u>Net</u>
Database software	<u>\$ 83,337</u>	<u>\$ 57,284</u>	<u>\$ 26,053</u>	\$ 36,949
Website costs	<u>21,000</u>	<u>4,200</u>	<u>16,800</u>	<u>-</u>
	<u>\$ 104,337</u>	<u>\$ 61,484</u>	<u>\$ 42,853</u>	<u>\$ 36,949</u>

7. Operating demand loan

The Society has available an operating demand loan of \$500,000 (2019 - \$300,000), due on demand and bearing interest at prime plus 1.25% (2019 - prime plus 1.25%) per annum 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 \$500,000.

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING
NOTES TO THE FINANCIAL STATEMENTS
AS AT DECEMBER 31, 2019

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:

	2019
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 \$54 (2018 - \$81) was incurred during the year.	\$ 2,712
Less current portion	1,356
Due beyond one year	\$ 1,356

Estimated repayments are as follows:

2020		\$ 1,356
2021		1,356
		\$ 2,712

9. Commitments

(a) Office space

The Society has an operating lease for its premises expiring on March 31, 2020. Subsequent to year-end, the Society entered into a lease agreement at a new premises commencing April 1, 2020 and expiring June 30, 2025. The minimum annual lease payments are as follows:

2020		\$ 35,000
2021		37,000
2022		37,000
2023		37,000
2024		37,000
2025		19,000
		\$ 202,000

(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, 2019

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>2019</u>	<u>2018</u>
Assets		
Cash	\$ 652	\$ 123
Investments	336,806	301,191
Accounts receivable	<u>14,447</u>	<u>20,227</u>
	<u>\$ 351,905</u>	<u>\$ 321,541</u>
Net funds		
Trustees Fund		
Balance, beginning of year	\$ 200,580	\$ 199,519
Interest and other income	1,638	1,393
Dividends	2,219	1,125
Capital (loss) gain	(2,583)	5,729
Fair value gain (loss)	21,981	(13,526)
Foreign exchange gain (loss)	36	(725)
Donations	6,215	9,691
Awards and other expenses	<u>(10,871)</u>	<u>(2,626)</u>
Balance, end of year	<u>\$ 219,215</u>	<u>\$ 200,580</u>

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING
NOTES TO THE FINANCIAL STATEMENTS
AS AT DECEMBER 31, 2019

11. Related parties (cont'd.)

	<u>2019</u>	<u>2018</u>
Jamieson Fund		
Balance, beginning of year	\$ 120,961	\$ 126,175
Interest and other income	1,334	1,192
Dividends	1,807	963
Capital (loss) gain	(2,104)	4,902
Fair value gain (loss)	17,904	(11,574)
Foreign exchange gain (loss)	30	(621)
Donations	1,505	1,695
Awards and other expenses	<u>(8,746)</u>	<u>(1,771)</u>
Balance, end of year	<u><u>\$ 132,691</u></u>	<u><u>\$ 120,961</u></u>

12. Financial instruments

Transactions in financial instruments may result in an entity assuming or transferring to another party one or more of the financial risks described below. The required disclosures provide information that assists users of financial statements in assessing the extent of risk related to financial instruments.

(a) Credit risk

Credit risk is the risk that one party to a transaction will fail to discharge an obligation and cause the other party to incur a financial loss. The organization reduces its exposure to credit risk by performing credit valuations on a regular basis; granting credit upon a review of the credit history of the applicant and creating an allowance for bad debts when applicable. The organization maintains strict credit policies and limits in respect to counterparties.

(b) Liquidity risk

Liquidity risk is the risk that the organization cannot repay its obligations when they become due to its creditors. The organization reduces its exposure to liquidity risk by ensuring that it documents when authorized payments become due; maintains an adequate line of credit to repay trade creditors as they become due.

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING
NOTES TO THE FINANCIAL STATEMENTS
AS AT DECEMBER 31, 2019

13. Subsequent events

On March 11, 2020, the World Health Organization categorized COVID-19 as a pandemic. The potential economic effects within the entity's environment and in the global markets, possible disruption in supply chains, and measures being introduced at various levels of government to curtail the spread of the virus (such as travel restrictions, closures of non-essential municipal and private operations, imposition of quarantines and social distancing) could have a material impact on the entity's operations. The extent of the impact of this outbreak and related containment measures on the entity's operations cannot be reliably estimated at this time.

14. 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.