

2017 ANNUAL REPORT



Canadian Society for
Civil Engineering



Société canadienne
de génie civil



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FACULTY OF ENGINEERING
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Minutes of the 2017 Annual General Meeting (AGM)

Saturday June 3, 2017, 1:15 p.m. – 2:00 p.m.

Ballroom, Westin Bayshore Hotel, Vancouver, BC

1. Call to Order

The 2017 Annual General Meeting (AGM) of the Canadian Society for Civil Engineering was called to order by President Jim Gilliland at 1:15 p.m. It was determined that quorum was present (33 voting members required per Section 13.1 of the by-laws) and thus the meeting was duly constituted.

2. Adoption of the Agenda

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

J. Rankin

2nd: M. Hnatiuk

Adopted: Unanimous

3. Approval of the Minutes of the 2016 AGM

June 4, 2016 London (as provided in the Annual Report)

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

Wade Zwicker

2nd: Jim Kells

Adopted: Unanimous

4. President's Report

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

b. Vision 2020 update – Strategic Initiatives Report Card – President Gilliland gave his report on 2016 and his vision on what we can expect in the future and what we should do to insure Vision 2020's success.

5. Honourary Treasurer's Report

Report of the Honourary Treasurer and motions to approve financial statements Glenn Hewus, Honourary Treasurer, reported on the financial situation of the Society, as of the end of the fiscal year, December 31, 2016.

MOTION: Hewus proposed that the financial statements be accepted for the period ending December 2016

2nd: Gopal Achari

Adopted: Unanimous

6. Other motions

a. **Friendly Motion by Randy Pickle to adopt all reports, except financial statements and Nominations Committee reports subject to corrections.**

2nd Cathy Lynn Borbely

Adopted: Unanimous

Peter Wright and Wade Zwicker noted the numerous

errors and omissions in the Annual Report with regards to the History Committee, numerous type 0's and items that should not have appeared at all.

Brian Burrell stated the International Committee report was not correctly represented. The report was supposed to be shown separately and was missing.

Action item: Members to send all corrections to National Office for updates and corrections to be completed by September 30th, 2017.

b. Motion: Adrian Munteanu to appoint Collins Barrow auditors for 2017 fiscal year

2nd: Mike Hnatiuk

Adopted: Unanimous

c. Motion: Vic Perry motioned to ratify actions of Officers and Directors since the 2016 Annual General meeting.

2nd: Adrian Munteanu

Adopted: Unanimous

7. Report of the Nominating Committee

MOTION: Tony Bégin to accept the report of the Nominations Committee

2nd: Lloyd Waugh

Adopted: Unanimous

8. Other business, if any

a. Update of National office re-organization.

President Gilliland stated that the position of CSCE Executive Director has been abolished and that a task force led by himself and other members of the Board, various CSCE committees and National Office will be established to reorganize National Office with regards to its relation with the CSCE organization.

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

Out-going President Jim Gilliland welcomed President Elect Susan Tighe as the 2017 CSCE President.

10. Adjournment

MOTION: By Gord Jin that the 2017 Annual General Meeting of the Canadian Society for Civil Engineering be adjourned.

2nd: Jim Kells

Adopted: Unanimous

The meeting adjourned at 1:55 pm

Report of the President

Susan Tighe, PhD, PEng, MCSCE

Campaigns and Communication: A Year of Building a Stronger CSCE

It has been my privilege and honour to serve as the CSCE President this past year, the year that Canada celebrated its 150th Birthday. During the course of this past year, we have worked as a team to make CSCE stronger. In addition to carrying out the many day-to-day tasks, we have made great efforts to advance our strategic plan through our alliances with other organizations, and focusing internally on some specific and directed campaigns. The elimination of the Executive Director role in 2017 resulted in some additional responsibilities for me as the current President. However, we are very fortunate to have a very dedicated staff in the CSCE national office and with the assistance of the other Executive members and countless volunteers across Canada, we were not only able to successfully function, we really make strides on our Vision 2020 strategy. We also worked hard to re-examine roles and responsibilities with the ultimate goal of making the CSCE national office stronger and relevant for the changing needs of the organization. Although this is still a work in progress as I prepare this annual report, we do expect to continue to evolve the organization as we move forward in the coming year.

National office and the many great CSCE volunteers, worked to ensure we advance our three strategic directives: Strategic Direction 1: enhanced services to members and Strategic Direction 2: growing with youth and Strategic Direction 3: leadership in sustainable infrastructure. CSCE develops programs and benefits that will support students and Young Professionals, targeted to their specific career development needs. All members, and especially those engaged in leading the Society, were actively participating in activities to make the strategic directions come to life.

I also attended the CSCE Hong Kong Branch (HKB) Annual Dinner 2017 cum Canada 150. The annual dinner was attended by well over 200 people and was a fantastic event. There were a number of high-ranking dignitaries at the event, including Canada's Consul General at Consulate General of Canada in Hong Kong. The Branch did a wonderful job of raising the CSCE (and Canadian) flags; indeed, the leadership team is to be commended!

The fall workshop and meeting of the Board of Directors was held November 2017. We all brainstormed and worked together to improve communication strategies. Following that meeting, we launched an active membership renewal campaign where we prepared videos showcasing the many volunteer leaders across Canada. This was not only inspirational but also resulted in positive impacts to our membership renewals.

I had the opportunity of visiting the organizing team in Fredericton in late 2017. During my visit, I also participated in the

CSCE University of New Brunswick Student Chapter Dinner. This event was hosted as a joint Chapter-Section Professional Development Dinner. I was very pleased to give the keynote presentation at the meeting on Leadership in Civil Engineering. It was an opportunity to share my experience but it also resulted in a lively question and answer period. The students were very engaging, and it was wonderful to see the many professionals sharing their experiences with the students. I hope to share this presentation with others over the coming year.

The CSCE International Affairs Committee (IAC) has been working hard to co-organize a conference with the China Civil Engineering Society (CCES). A meeting was held in Beijing in early 2018 at the offices of CCES to discuss the co-organization of an international conference. We signed the agreements and will host an International Speciality Conference in partnership with CCES at the 2019 Annual Conference, which will be held in Montreal.

During the month of March 2018, we celebrated National Engineering Month in Canada by launching our CSCE PIN CHALLENGE! We had many wonderful ambassadors and we challenged members to recruit new members and they were rewarded by doing so. Our Facebook page and the CSCE website featured video challenges recorded by members for our board of directors, and committee and section chairs. The challenge was to recruit new members to CSCE, as there were many compelling reasons to become one. A big thank you to all those who participated in this challenge and welcome to all our new members.

I was also very pleased to announce that we formed a President's Task Force on Accessibility to provide input to the Canadian Standards Association B651. The Task force recognized that there have been many advances in terms of infrastructure accessibility over the last decade, but more needs to be done to address critical issues, particularly spacial requirements for wheeled mobility devices (WhMD) such as power wheelchairs designed to meet the needs of persons with disabilities and the older persons desiring to age in place. The CSA proposed revisions to B651 have been reviewed by the CSCE Task Force, and have subsequently offered advice concerning these 3 critical areas of the standards, for without initial access to a building, a railcar, or a public space, no other internal accessibility improvements can be utilized. Further follow up with other interested parties will be pursued to ensure these issues are raised to help make Canada more accessible. More information will be provided at the upcoming Annual Conference in Fredericton in 2018.

We have worked with a group of volunteers to develop innovative communication tools, THE CSCE HUB. We were pleased to receive responses to our CSCE Hub survey of members. The HUB CSCE Hub is an expansion of the CSCE website, which is

developed to provide a Professional Network for members, unlike any other in use today. It is designed to enable for an online community in which members can interact with mentors, employers, each other, and the CSCE itself, provide relevant news and social feeds, as well as, an expanded job posting section, enable for an expanded membership profile (i.e., professional development courses, education, work experience) and compliment a new loyalty initiative program geared towards all members. The intent is to create a framework for the CSCE to later expand upon and enable a wider range of services to members such as secure online payments for events, membership fees etc. We are looking forward to unveiling the CSCE communication HUB at the 2018 CSCE Annual Conference in Fredericton. As the pace of civil engineering in Canada continues to increase, this innovative and novel networking/communication tool will ensure relevant and topical information is available to our members and provide outstanding networking capability. We are active on social media and will continue to use our new website and various other communication tools to advance our learned society.

We also worked hard to gear up for future CSCE Professional Development courses in the coming year, including: Envision, Meeting Seismic Design Requirements with the new Masonry Design Standard CSA 304-14, Performance Based Seismic Design of Tall Buildings and Smart Infrastructure Monitoring Systems. Be sure to make us a part of your annual professional development credits program, and note special discounts are available for members!

I have been fortunate to work with many accomplished, Canadian civil engineering leaders over the past year as CSCE President. As I close this report, I would like to say, thank you! I am truly delighted to have served in the role of President. I look forward to continuing to actively participate in CSCE over the next several years and look forward to seeing CSCE continue to thrive under the leadership of Glenn Hewus. I am confident that the past year has laid a path forward for the upcoming generations of civil engineering leaders as we continue to evolve as a society and profession. Thank you for your efforts in making this society great! Be Seen, Be Heard, Be Relevant and I would add, Be Proud!

Susan Tighe, PhD, PEng, MCSCE
CSCE President 2017-2018

Report of the Senior Vice President

Michel Khouday, ing., M.Eng., PMP, Adm.A., M.B.A.

The six (6) Regional Vice-Presidents have been very active and dynamic in terms of communication, technical visits, conferences and events during the past 12 months. They provide feedback and help as much as possible their respective section and chapter. Listening and understanding the different needs and expectations of the members is the main key for the growth in membership of our Society. A lot of best practices were shared across the Region and some ideas were discussed to grow our visibility in the different platforms of social media.

As the Regional Vice-Presidents have prioritized to interact closely with all active Sections across Canada on a periodical basis, the Senior Vice President and the President also attended as a moderator and speaker at the International Conference on Sustainable Infrastructure 2017, held in New York, New York, October 26-28, 2017 of the ASCE. It was a great event that helped to boost the visibility of CSCE outside Canada. A lot of RCC Meetings conference call meetings were organized in the course of the year. Different action plans and types of events were organized in accordance with CSCE's three strategic directions. The RCC focused also on the operation of the Regions and Sections and how we could help each other by sharing the challenges and successes experienced in each Region and Section. The Regional VP's addressed a number of issues of national common interest. One of these issues related to the support provided by Sections to organizing committees of technical program conferences and workshops held in their geographic areas. Also during these RCC meetings, the reports from each of the Regional VP's demonstrate the significant level of activity that takes place at every level (volleyball tournament, lobster dinner, symposium, career affair, etc.) of the society through the many Sections that operate within each Region. The members of our Society had a lot to do in the last 12 months with all the event plan across Canada (technical visit, networking event, conference, Lecture Tour, etc.).

Michel Khouday,
ing., M.Eng., PMP, Adm.A., M.B.A.
Senior Vice President

Young Professionals Committee

Chair: **Nicholas Kaminsky**

The mandate of the Young Professionals (YP) Committee is to provide services and programming for students and young professionals that will assist them in the development of their careers. Our committee's mandate directly supports the CSCE's Strategic Direction 2, which is dedicated to growing with youth. Our committee's continuing initiatives include providing support and funding for section networking, mentoring or youth outreach events. Our network of local YP representatives hosted a variety of successful events spanning from Edmonton to New Brunswick.

The Young Professional articles in CIVIL magazine continue to bring attention to various events and initiatives occurring within our committee and across the country. As chair of the committee, I will be reporting on important and relevant topics to the benefit of our members including young professional women in engineering, the benefits of networking and professional differentiation.

The CSCE made positive strides with the introduction of free student membership, which provides an opportunity for young members to experience the array of benefits a full CSCE membership would offer after graduation. 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 2017 Annual Conference in Vancouver had an impressive young professionals program organized by Stanley Chan, member of the local organizing committee with several networking events and tours. Our committee Vice-Chair, Vincent Tourangeau, hosted a young professionals networking event during the conference. The networking event was highly successful and attracted dozens of young professionals from across the country.

Guided by the Strategic Directions of the society, our committee will continue working

towards our goals including: increasing the number of local YP events (enhanced member services) and bridging the gap between student members and associate members (growing with youth).

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

Student Affairs Committee

Chair: **Charles-Darwin Annan**

In 2017, the committee continued its efforts to support students in stimulating early professional consciousness. Existing programs were strengthened. The committee recorded significant success, thanks to the hard work and cooperation of our Student Chapters, the contribution of our Faculty and Practitioner Advisors, and the support of CSCE, both at the regional and national levels.

The committee strengthened the following key areas:

- **Communication with Student Chapters** – The Committee maintained and strengthened communication with Student Chapters throughout the year. The Student Voice in the Canadian Civil Engineer magazine always carried relevant and timely articles to inject new enthusiasm in Chapter participation in our programs and initiatives. One new student chapter emerged this year.
- **Student Membership** – Students continued to enjoy free student membership fees. Student members received the digital version of the Canadian Civil Engineer magazine.
- **Resource Support** – The Committee continued to provide individual Student Chapters with CSCE 'SWAG' packages (pens, rulers, stickers, highlighters) to help with school year kick-off and membership drive events. Some requests came from student chapters, indicating how helpful this resource is to the chapters.
- **Student Competitions** – Student competitions are a great way for students to challenge themselves and apply their knowledge to projects outside the classroom. Student Affairs is proud to continue to provide support to the various student competitions around the country,

which provided opportunity to suit different interests and ambitions.

- **Chapter Annual Report** – 26 Student Chapters (one more than previous year) submitted annual reports for the 2016/2017 school year, which were evaluated by the Committee. The Reports served as the basis for the President's Award for Outstanding Student Chapter. The Annual Reports also served as a means to assess the effectiveness of our programs.
- **Student Chapter Leaders Workshop** - The Committee held the fifth Student Chapter Leaders Workshop at the annual conference in Vancouver. This provided excellent networking opportunities for our student leaders and encouraged stimulating interactions amongst Student Chapters. Each Student Chapter benefited from one free student conference registration, paid for by National/Student Affairs.
- **National CAPSTONE Design Competition** – The Committee held the student CAPSTONE Design competition in Vancouver. 16 schools participated. Student Affairs provided subsidy to cover student conference registration for two students from each participating school.

Chair: **Charles-Darwin Annan**

Members:

Yi Liu, Tirupati Bolisetti & Paul Thurston

Western Region

Vice President: **Caterina Valeo**

Many thanks to outgoing Vice President Dinu Philip Alex for his hard work in the last four years as Vice President for the Western Region. Since taking over last summer, I've had the pleasure of engaging with the Section Chairs in this Region and learning about their respective activities. The sections continue to embrace the strategic directions, engage local professionals and grow the body of young professionals involved.

Calgary Section

Chair: **Hadi Aghahassani**

The Calgary section is one of the most active sections in the Western Region with regular events in the Spring and Fall, bringing in large audiences for a diverse array of technical speakers and tours. Notable events for 2017 included "A Right of Passage - Trans Canada

Highway twinning Banff and Yoho National Parks", "A history of railway bridge design and construction", the "Zoo Flood Mitigation Project" presentation and site tour and Senator Rosa Galvez's talk on Lac-Mégantic's Human and Environmental Disaster. This active section will continue hosting events with technical talks and site visits that engage students together with professionals. Future events for 2018 include "Passive House Design", "Tall Wood Building Seminars" and talks on Leadership in Engineering. The annual popsicle stick bridge competition continues to be a big hit with the student chapter at the University of Calgary who is also active in organizing graduate student poster competitions and tours. The Young Professionals group is also active and participating in information sessions by APEGA and other organizations. Please see the sections facebook page at [/www.facebook.com/CSCECalgary](http://www.facebook.com/CSCECalgary) for photos and updates as well as [//twitter.com/csceCalgary](https://twitter.com/csceCalgary)

Edmonton

Chair: **Court Beamish**

The Edmonton section continues to be highly active, providing a wide range of interesting and rewarding services to its membership. This section hosted 8 separate dinner presentations throughout 2017 on a variety of topics including "Building Great Neighbourhoods Program", "Fire and Water Alberta Environment and Parks Response To the Fort McMurray Fire", "Recycled Materials in Transportation Infrastructure", and "Edmonton Ice District Towers Foundation Design and Construction" to name a few. For 2018, the Edmonton Section will continue its tradition of providing a wide range of events for the local members and students including sustainable projects around the reconstruction of the Mayerthorpe Rail Bridge, implementation of the City of Edmonton's combined sewer overflow program, the Yellowhead Freeway Conversion program as well as a Masonry Workshop. As a pilot program for what will hopefully become a semi-regular event, the Edmonton Section will be hosting a One Day Symposium on "Innovations in Engineering" in the fall of 2018. The section is also engaging students with student information sessions on Civil Engineering, the Larry Gerard undergrad student paper contest and the Annual Popsicle Stick Bridge

Competition. These future CSCE members can look forward to technical tours, contests and prizes in 2018. The Young Professionals Group is no less active with 8 events in 2017 including tours of the Alberta Capital Region Wastewater Treatment Facility and Modular Home Manufacturer, curling funspiels, bowling nights and mixers between organizations. This group is looking forward to continued fun activities and technical talks including Mill Creek Ravine Wooden Bridge Replacement and Mentoring. Events like the curling funspiel, technical tours, billiard tournaments and student awards will continue to help draw the young professionals and students to this section in 2018. Please see www.facebook.com/CSCEEdmonton/ or csceedmonton.ca/ for some great photos and updates on upcoming events.

Vancouver Section

Chair: **Graham Walker**

The CSCE 2017 Vancouver conference was a great success with over 700 attendees making this one of the most attended conferences in years in spite of early organizational challenges. The national office took a primary role in organizing venue logistics which allowed the local organizing committee to focus on program, sponsorship and partnerships. For highlights on the conference, please see the CSCE's Vancouver Sections Newsletter in January 2018. The added involvement in coordination through the national office was a great format that should continue. Even with the heavy strain of hosting the national conference, the section continued to be active with regularly scheduled events to support the interests of their membership including hosting Senator Rosa Galvez on her national tour. Highlights for 2018 include presentations on the City of Vancouver's Northeast False Creek Area Plan; the case for regional transportation in Vancouver with a focus on the recently fully funded Millennium Line Broadway extension, the North Short Waste Water Treatment Plant, a course on wharf rehabilitation and presentations on working in interdisciplinary project teams. The local student chapters are exceptional with winning now three consecutive Presidents Awards for most outstanding Student Chapter in 2015 (UBC), 2016 (BCIT) & 2017 (BCIT). The section is looking forward to providing better services to the members through providing

reduced rates for events and enhanced collaboration between student chapters. The revenue from the National conference will be used to drive these initiatives. The Vancouver section leads the way on progress towards a standardized section website through coordination with the Quebec region in utilizing their template. Working between regions and sections to leverage resources and also providing a consistent organizational image are important components for developing a truly Canada wide society. The national conference was an exciting opportunity to reconnect with some industry members which have been inactive at the section level and also attract new members to the executive. Please see <https://www.cscebc.ca/> for local events and updates.

Vancouver Island Section

Chair: **Jonathan Reiter**

This section is continuing to gain momentum and growing its membership with a small population base of Civil Engineers. Much of the traction gained so far has been through this section's efforts to host topical presentations (including Senator Rosa Galvez in the fall of 2017) and through the efforts of the University of Victoria's CSCE Student Chapter. The UVic student chapter received financial support from the Vancouver Island section and have been active since its inception in organizing guest speakers and technical tours. The section is exploring ways to engage all the Universities and Colleges on the Island as well as other professional memberships like the CWRA and Vancouver Island Geotechnical Group. Highlights for 2018 include the CSCE sponsorship of the First International Conference on New Horizons in Green Civil Engineering at the University of Victoria Campus from April 25-27, and new scholarships that encourage memberships for post-secondary students designed to retain them as members once they graduate. The UVic student chapter is planning on participating in the Concrete Canoe competition in 2019 and will be seeking sponsorship for activities in 2018-2019. Please see the UVic student chapter website for photos and news: csce.engr.uvic.ca/.

Vice President: **Caterina Valeo**

Treasurer: **Rishi Gupta**

Prairie Region

Vice President: **Mike Hnatiuk**

The Prairie Region includes the provinces of Manitoba and Saskatchewan. The Region is comprised of three sections, Manitoba, South Saskatchewan, and Saskatoon.

South Saskatchewan Section

The Section, led by a Board of dedicated members and chaired by Harold Retzlaff, delivered a number of technical presentations to the local community. A highlight for the year was hosting the NLT, "Lac-Mégantic: Human and Environmental Disaster" lecture. The Section continues to support the University of Regina's Student Chapter as it continues to prosper in membership and the programing they provide.

Saskatoon Section

The CSCE Saskatoon Section had another successful year. Roanne Kelln stepped into the role of chair. Under her leadership, the Section continued to hold multiple lunch hour presentations, or "Nooners" as they are colloquially known. It was noted in last year's report that the attendance at the Nooners had increased from years prior; in the past season, these increased attendance numbers were maintained. The Section feels these luncheons offer a great opportunity for CSCE members and sponsors to network and to learn about exciting projects from Saskatoon and area. The Nooners are the flagship event of the Section, and the Section hopes to keep these events running with the great topics and great attendance seen over the past two years. The Section also hosted the National Lecture Tour in January, which was a great success. The Section sent a press release to multiple media outlets, and secured multiple TV and radio interviews for the presenter, Dr. Rosa Galvez, as well as two on-camera interviews with local morning news programs where Roanne talked about the NLT event, the disaster itself, and CSCE as an organization as well. The Section hosted their annual popsicle stick bridge competition in January, which saw multiple record-setting bridge entries. Student and professional teams alike had a great time at this event, and the Section looks forward to hosting this event again next year. The Section continued to support the CSCE student chapter at the U of S, with visiting classes to publicize CSCE and encourage students to sign up as student members, providing

financial support for the Civil Engineering graduation ceremony, and providing financial support for the newly formed steel bridge design team. The student chapter itself has been active throughout the year, hosting multiple social events for their students and organizing one tour of a local precast concrete production facility. Lastly, the Section hosted their AGM in late April. A change in the format of the AGM saw an increased attendance from members, including many fellows of the Society. The AGM offered a valuable opportunity to receive feedback that the Executive will implement in the coming year, in efforts to continually improve the operations of the Section and the value offered to members, sponsors, and other supporters of the local Section.

Manitoba Section

This section has fallen into a dormant period, efforts are being made with the assistance of our President to recruit members to fill out a new executive committee. This will allow for local programming and activities to follow.

Mike Hnatiuk

Regional Vice President

Ontario Region

Vice President:

Adrian Munteanu, P.Eng., MCSCE

The Ontario Region comprises six Sections: National Capital, Durham-Northumberland, Toronto, Hamilton-Niagara, Northwestern Ontario, and London and District. The Ontario Regional Council, with representation from each section, works to promote sharing of best practices, speaker and event information, and to provide a vehicle for representation of Section interests to the CSCE Board. The Council also works to ensure nominations proceed for Ontario CSCE Fellows and various CSCE awards. The Council typically meets by teleconference but also meets in person when feasible, such as at the CSCE Annual Conference.

The **National Capital Section**, under a new leadership by Nima Aghniaey, has seven members on its executive team and serves a population of 900,000 in the greater Ottawa area. The Section is closely affiliated with two Student Chapters at Carleton University and the University of Ottawa.

During 2017, the section organized several events for its members and provided support to the local student chapters. The section organized the National Lecture Tour / Lac Megantic – Human and Environmental Disaster in Ottawa, participated as judges, and granted CSCE Prizes at the University of Ottawa Graduate Student Poster Competition, and in the university Student Achievements Celebration.

In addition, the section developed two very interesting events: together with Al Perks from our CSCE History Committee, we put together an engineering exhibition for the 150year Canada Anniversary. The exhibition, “Building Canada” hosted at the City Hall in Ottawa for a month from mid-June to mid-July, was quite appreciated by the City members and the visitors in general – many thanks to Al for his vision and work. More information about the exhibition posters can be found at <https://csehistory.ca/building-canada/>.

The Section also produced the very 1st Annual Civil Engineering Symposium on February 4 in partnership with the American Concrete Institute (ACI) – Ottawa chapter. It was a great event featuring local projects, industry partners and research from both university in Ottawa – CarletonU and OttawaU. There were approximately 120 participants: students, CSCE members, and university, municipal and industry members. The event also included a volleyball tournament that brought a lot of fun! We are looking forward for the next year edition!

Both CSCE Student Chapters at Carleton University and University of Ottawa had a very successful year organizing and coordinating various events and activities, from speaker night and guest lecturer events, to meet and greet gathering, to engineering competitions and tours, to many other fun activities like Radon Guest Speaker Night, Hydraulic Draw Bridge Building Competition, etc.

The **Durham-Northumberland Section** serves a large geographic area from east of Toronto to Kingston but is currently dormant. We are continuing to work for recruiting new members to assist in coordinating the Section’s activities. James Garland managed to organize the NLT / Lac Megantic – Human and Environmental

Disaster in Witby.

The **Toronto Section**, serving the largest number of CSCE members in the province, has had a good year in 2017 under the new leadership of Alex Andrenkov. The Section operates with a team of six executive members that works on delivering lectures, social events and professional development activities.

The Section organized this year the National Lecture Tour / Lac Megantic – Human and Environmental Disaster and the free seminar Canada’s Infrastructure Report Card in partnership with the PEO. The Section is also affiliated with three CSCE Student Chapters at Ryerson University, the University of Toronto and York University. The Section also provided support to the student chapters and this year, the chapters organized interesting activities from movie nights, meet and greet to engineering workshops, speaker night and competitions. The Toronto Section maintains an active internet and social media presence to communicate news of events and activities to members (www.cscetoronto.ca).

The **Hamilton-Niagara Section** serves a very large area with a population of approximately one million people. No events were organized during 2017. The section is dormant and we are continuing to work for recruiting new members to assist in coordinating the Section’s activities.

The **Northwestern Ontario Section** serves an area with a population of 150,000 people and is chaired by Gerry Buckrell. The section organized in 2017 the National Lecture Tour / Lac Megantic – Human and Environmental Disaster in Thunder Bay

The **London and District Section** is a joint CSCE-CGS (Canadian Geotechnical Society) Section with a fourteen-member team Executive. The Section had very successful year in 2017 under the new leadership of Julian Novick whom took over from Stephanie Dalo in 2017.

The Section hosted, as usual, six dinner presentations in 2017, covering very interesting topics – Burbrook Storm Sewer Trunk Tunnel, Dundas Flexible Street, Niagara Tunnel Project and many other. The section also organized the CSCE National Lecture Tour / Lac Megantic – Human and

Environmental Disaster presentation in London. The Section supports the WSCE (Western Society for Civil Engineering), which is the CSCE Student Chapter at Western University, through several activities and events the students organized, and indeed, it was a very good year for the student chapter: Polar Stick Bridge Competition, Civil vs Chemical Laser Tag etc.

The Section maintains an active website (www.csce-cgs-london.org) to inform members of upcoming events and other related news. It also has a twitter account (@csce_cgs_london) to provide quicker and easier access to similar information.

Adrian Munteanu, P.Eng., MCSCE
Vice President

Quebec Region
Vice President: **Frédéric Brunet**

The Quebec region includes three sections (Montreal, Quebec and Sherbrooke) and six student chapters (ÉTS, Polytechnique, McGill, Concordia, Laval and Sherbrooke). The main goal of the region is to unite its sections and student chapters so that they work together to enhance member services, increase partner visibility and boost the volunteer experience. During the past year, this was done in many ways. For example, the region organized two regional seminars where the three sections and student chapters met to discuss their shared vision and goals. These meetings, organized in the form of brainstorming sessions, facilitated the sharing of best practices and helped forge links between students and professional members. Finally, the 2019 annual conference is jointly organized by the three sections. The goal of this approach is to make it a regional success.

Montreal Section
Several changes took place within the executive committee. First of all, Sara Rankohi was appointed chair of the section and Jennifer C. Tran, former chair of the Concordia Student Chapter, was appointed vice chair of the section. Finally, Rami Mansour joined the team as a representative of the Young professionals. In total, seven members, mainly from engineering firms, form the executive committee of the Montreal section. This past year, the committee organized six

periodical conferences held on the last Monday of each month. These conferences focused on topics related to various fields of civil engineering, without being of a very advanced technical level. The topics included the advancement of work on the new Champlain Bridge, BIM-VDC (Building Information Modeling - Virtual Design and Construction) technologies, and opportunities to implement machine learning and artificial intelligence to solve part of the aging infrastructure problem.

The section also held the fourth edition of its career forum where five outstanding engineers presented their career path. Students and professionals were invited to attend the event which was followed by a networking session with wine and appetizers.

Quebec Section

The current president of the Quebec section is Kim Lajoie. The executive committee is made up of eight members from engineering firms, the Quebec Ministry of Transport and product manufacturers. Two of these members are representatives of the student chapter of Laval University. Collaboration between professionals and students helps maintain a strong link between them and facilitates the retention of student members.

The committee organized seven conferences dealing, among other things, with the construction of a new pavilion at the National Museum of Fine Arts in Québec, the use of aluminum in bridges and the innovative construction of a tall wood building as well as the annual joint conference with the Canadian Geotechnical Society (CGS). A career forum was also held. WSP, CICA and Quebec City engineers were invited to present their career path to more than 70 student and professional members.

Finally, the section closed the season with the organization of the popular lobster dinner. This activity aims at thanking the section's partners for their support. Fellow members were invited to attend on a complimentary basis. They were very appreciative and hoped to attend the next event.

Sherbrooke Section

During the past year, two civil engineering undergraduate students, Zohra Alaoui and Alexandre Beaulne, took over the chair of

the section and three executive members alternated the roles of treasurer, secretary and vice chair. These members act as administrators of the student chapter and the section. The dynamics of the team is harmonious and the tasks are often divided according to the availability and interests of the team members.

The team organized several enriching activities such as the Cécobois conference, a training course on the SAFI software, a conference on the i3C software, a wine and cheese networking evening and a conference by Professor Robert Leconte, ing. PhD entitled: "A satellite in the service of hydraulics". A meal is served at most of these events. The number of participants ranged from 15 to 60 people. Finally, the student members took part in the visit of the immense site of the Turcot interchange, whose budget is 3.67 billion.

Next year's objective of the student chapter is to organize even more activities aimed at professionals of the Eastern Townships area.

Frédéric Brunet

Vice-président

Atlantic Region

Vice President: **Samuel Richard**

The Atlantic Region comprises four sections, including East New Brunswick and Prince Edward Island, Newfoundland and Labrador, Nova Scotia and West New Brunswick. The regional activities are governed by the Atlantic Region Council which is made up of the Vice President Atlantic Region, Jeff Rankin (Past Vice President Atlantic Region), Kaveh Arjomandi (Region Treasurer) and the chairs of the four Atlantic sections. In the past, regional meetings were held bi-annually. Starting in 2018, meetings will be held at every two months throughout the university academic year. This will increase communication between sections and provide better value to the CSCE membership. In addition, members of the Atlantic Region Council are invited to participate in national meetings at the November Workshop and the Annual Conference. These meetings provide insight on new ideas and upcoming activities across Canada and promote communication with the national governing body.

The **East New Brunswick and Prince**

Edward Island Section has been active in the society by organizing and promoting multiple activities throughout the year. The executive section consists of Jérémie Aubé (Chair), Gérard Poitras (Past Chair), Shawn Arseneault (Treasurer), Gilles Hébert (Secretary), Serge Desjardins (Student Liaison), Glody Shaolinde (Student Representative), Dani LeBlanc (Director, Social Media & Communications, Young Professional Representative), Hélène Thériault (Director) and Sherry Trenholm (Director).

The section's primary agenda has been promoting student participation and memberships at the Université de Moncton (UdeM)'s Faculty of Engineering. At the beginning of the university academic year, the section hosted a presentation introducing the CSCE to engineering students from the UdeM. At this session, students had the chance to take advantage of the free CSCE membership and register with the help of section representatives. During the Fall semester, the section participated in the engineering student body's (AEEGUM) Wine and Cheese event. Showcased was the progress of the Capstone competition teams. This setting also provided networking opportunities between students and professionals. Following this evening was the annual Job Shadowing event, which was a great success. Students had the opportunity to have lunch with professionals and experience the work environment of a civil engineer. During the Spring semester, a site visit to the new Moncton Downtown Center was organized for students. In conclusion, the 2nd edition of Fellow's Night was hosted at the university restobar. Gilles Hébert (FCSCE) presented the highlights of his career, volunteer work, and accomplishments as a civil engineer. This event also serves as a closing ceremony for student CSCE activities which included a presentation from the CSCE student chapter and the CSCE Concrete Canoe team. Additionally, the Lac Mégantic Disaster National Lecture Tour (NLT), presented by Dr. Rosa Galvez, was greatly received by the student and professional attendees in September.

In November, the UdeM's Faculty of Engineering, in partnership with the CSCE and the city of Dieppe, hosted a major event recognizing the Aboiteau as a historic infrastructure. This event was covered by media outlets such as CBC and

Radio-Canada and was attended by more than 150 people, including many dignitaries. A 328-year-old aboiteau specimen now is displayed in a kiosk at the Faculty of Engineering.

The **Newfoundland and Labrador Section** provided great support for the students of Memorial University (MUN). Throughout the year, many activities led to an increased exposure of the CSCE and stronger ties with other associations. The executive section consists of Bin Chen (Chair), Joseph A Daraio (Treasurer), Jennifer Mills (Secretary), Helen Zhang (Faculty & Student Advisor), Weiyun Lin (Student Representative), Gordon Jin (Director), Susann Hickey (Director) and Leonard Lye (Director).

During the past year, the section dedicated their efforts in membership recruitment and support of student events for the MUN's Faculty of Engineering. In March, a CSCE booth was prepared by the section and the student chapter during the Engineering Open House at MUN. Many high school students and their parents were exposed to the CSCE and enjoyed the exhibition. In September, the Lac Mégantic Disaster NLT was hosted at the Faculty of Engineering. The lecture was a great success, attended by over 30 attendees and receiving positive feedback. Future plans include a series of Career Development Seminars which will serve to promote the development of students and young professionals. In addition, the section will provide support to the CSCE Student Bridge Competition for the upcoming event.

The Workshop and Symposium on Persistent and Emerging Organic PoLLution in Cold and Coastal Environments (PEOPLE 2017), hosted during the month of October, was a major two-day event. Many associations collaborated together in order to make this event a success, notably the Northern Region Persistent Organic Pollution Control (NRPOP) Laboratory at MUN, the Canadian Association on Water Quality (CAWQ) and the International Society for Environmental Information Sciences (ISEIS). This event created stronger relationships and better synergy between the associations, opening the door to future collaborations.

The **Nova Scotia Section** is chaired by Haibo Niu. For many years, the section has been inactive creating great difficulties for the implementation of section activities. This past

year served as a rebuilding year for the section. Nevertheless, Chris Davis (Young Professional Representative) has worked with the CSCE Dalhousie University (DAL) Student Chapter to plan activities for engineering students, promoting the benefits to younger members. In March, the student chapter partnered with the CSCE Young Professional group to set up a booth at the National Engineering Month's student and professional networking event. Visitors could learn about the CSCE and win door prizes. Additionally, the Lac Mégantic Disaster NLT was hosted in September at the DAL's Faculty of Engineering. These events provided an opportunity to entice the next generation of engineers to be involved in the CSCE and promote growth for the section in the Halifax area. The Atlantic Region Council will prioritize support and growth of the Nova Scotia Section during the year of 2018.

The **West New Brunswick Section** has experienced significant growth during the past year. A couple of years ago, the section was inactive. Today, the executive is governed by a group of motivated and hardworking young professionals. The executive section consists of Brandon Searle (Chair), Ted Moffatt (Vice Chair), Alyson Dean (Treasurer), Lucas Storey (Secretary), Mike Benson (Young Professional Representative), Nikole Watson (Student Liaison) and Coady Cameron (Social Representative). In addition to these people, Jeff Rankin (Past Vice President, Atlantic Region), Lloyd Waugh (former CSCE President) and Alan Lloyd (Academic Advisor to the University of New Brunswick (UNB) Student Chapter) attend the meetings. Typically, two members of the student chapter are involved in meetings and liaison with the students. These include Jameson Cunningham and Eric Tynski.

The past year has been very busy for the section. In addition to the regular section events, the core committee planned the Young Professional and Student Events, as well as the technical tours, for the upcoming 2018 CSCE National Conference. The section also hosted technical talks and a Fellows Dinner. At these events, a variety of speakers were chosen from both the private and public industry. At the Fellows Dinner, each CSCE Fellow received a pin in recognition of their contribution to the society. Adam Bell, from the City of Fredericton, presented on the Smart Cities project that the city is proposing for their

submission to Infrastructure Canada. Marty Gordon, from WSP Canada (formerly Opus International Consultants), presented on Asset Management 101 and linked the presentation to some of the requirements that municipalities in New Brunswick must include in their plans. Brody Hanson, from Siemens, presented on the Smart Grid project that Siemens has been working on with NB Power over the last few years.

While organizing these technical talks, the section also linked up with the UNB Student Chapter, helping to promote the second Steel Bridge competition, the Troitsky Popsicle Stick Bridge Building competition at UNB, the Professional Development Dinner and the end-of-year Civil Engineering Banquet. Additionally, Dr. Rosa Galvez presented the Lac Mégantic Disaster NLT to a crowd of over 40 people held at UNB.

In the upcoming year, the intent is to continue the technical talks and to establish a set schedule for the 2019-2020 academic year. The section would like to post the events on a calendar and have more defined roles amongst the executive members. In conclusion, we are happy to have, Robbie Praeg, who has been involved in the organization of Young Professional and Student events for the National Conference, join the section.

Samuel Richard

Vice President, Atlantic Region

Report the Vice President, International

Brian C. Burrell, P.Eng., C. Eng., FCSCE

Report on Activities of the VP International

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

During its June 2016 meeting, the Board of Directors shifted responsibility for overseeing the International Affairs Committee from the VP Technical Programs to the VP International. This move is an effort to better consolidate and manage CSCE's international activities. It is hoped that additional changes will be made to increase recognition of the importance of international activities to the CSCE, and to increase the effectiveness of the VP International position. During the Board meetings of 2017, the VP International advocated for the process to continue, with greater authority for the next VP international.

During 2017, I prepared several documents including the 2016 annual international report, proposals for new IAC activities including a conceptual document on a short course on international engineering, documents related to the Envoy Program, a list of action items to enhance CSCE's international activities, a strategic plan (SWOT) analyses for CSCE International activities, a discussion document for the Board on multilateral versus bilateral relations, and a 2018 work plan and budget request. I attended and participated in the June and November Board workshops and meetings and meetings/teleconferences of the Conference Committee. I also managed the CSCE International LinkedIn Group.

I have advocated greater transfer of information from other countries on foreign research, projects, professional practice, and opportunities back to CSCE members in Canada. I was involved with dissemination of information on the One Belt, One Road undertaking, and discussions concerning a joint conference with the China Civil Engineering Society (CCES).

As VP International, I attended the CSCE Hong Kong Branch's annual dinner held on October 26, 2017 at the JW Marriott Hotel, Hong Kong. I gave some remarks about the CSCE, mentioning the forthcoming CSCE 2018 Annual Conference (and associated specialty conferences) in Fredericton, NB and the 10th International Conference on Short and Medium Span Bridges, Quebec City, Canada.

Report of the CSCE International Affairs Committee

1. Committee Overview

The CSCE's International Affairs Committee is chaired by Dr. Rishi Gupta, and currently has 13 members. Formed in the 1980s, IAC has consistently been one of the CSCE's most active committees. Information on IAC can be found on the committee's web pages, which are regularly updated with support from Lois Arkwright in the National Office. IAC's activities include both domestic activities within Canada, and management of relations and projects with foreign engineering societies. 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 the operations of foreign branches of the CSCE (e.g., the Hong Kong Branch) and international / foreign conference sponsorship handled directly by Technical Divisions or the National Office.

2. 2017 Activities

ENVOY PROGRAM:

The Board of Directors at its June 4, 2017 meeting approved the proposed Envoy Program to be managed and vetted by IAC. Through the Envoy Program, promotional material (with respect to the CSCE and Canadian civil engineering) will be supplied to 12 to 15 CSCE members per calendar year (including both practicing engineers and academics), who are going to attend conferences / business meetings in foreign countries. The volunteers would be given the title of CSCE Envoy so they can promote CSCE/ Canadian civil engineering while away. Program commencement has been awaiting further planning to be completed by IAC. For further information, please contact the IAC Chair.

INDIA:

The CSCE gave non-financial support to Nirma University for the Nirma University International Conference on Engineering (NUiCONE 2017 held 23-25 November 2017. CSCE has previously supported these conferences.

SOUTHEAST ASIA:

IAC undertook no major activities in SE Asia during 2017 but maintained existing contacts.

CHINA:

The China Civil Engineering Society (CCES) sent a delegation to the CSCE Annual Conference in Vancouver. An agreement of cooperation between CCES and CSCE was signed renewing a long partnership between the two civil engineering societies. Bing Chen (CSCE's Liaison Officer with respect to CCES) attended the 'The Belt and Road' International Forum of Civil Engineering, November 19 and 20, 2015, Beijing, China. Since then, Bing Chen had discussions with CCES officials about cooperation on future events including the possibility of a joint conference with the CCES on the 'The Belt and Road'. This resulted in a meeting with CCES in Beijing on January 29, 2018 attended by CSCE President Dr. Susan Tighe and IAC Deputy Chair Jeanne Huang. During that meeting, the CCES agreed to hold a joint conference with the CSCE on international projects and research at the time of the CSCE 2019 Annual Conference in Montreal.

The State Administration of Foreign Experts Affairs (SAFEA), China held a 12th Workshop to be held from May 13 to May 19, 2018 in Jinan, Shandong, China. The Canadian Society for Civil Engineering (CSCE) had participated in two previous workshops and had been asked to invite foreign experts to participate in the 2018 workshop on the theme of smart water resources management and irrigation. Ron Droste's (IAC Member and Former Chair) worked on the organization of CSCE involvement. A call for expressions of interest from CSCE members was issued with abstracts to be submitted by Dec. 15, 2017. Participants were selected and notified in late December.

CSCE IAC members Andrew Liu (CSCE Liaison Officer for China Highways and Transportation Society) and Ming Zhong and the CSCE Transportation Division (Liping Fu and Tony Qiu) helped with the China Highways and Transportation Society (CHTS) with the organization of the 4th International Conference on Transportation Information and Safety (Banff, Alberta), held 8 -11 August, 2017. Other partners were China Communications and Transportation Association, the American Society of Civil Engineering, and Wuhan University of Technology. CSCE Transportation Division Chair Dr. Tony Qiu was the Co-chair of the conference. Many CSCE members participated in the conference, including Dr. Ming Zhong, Dr. Tony Qiu, Dr. Liping Fu, and I as invited speakers. CSCE President Susan Tighe was invited to give a keynote speech. More than 200 papers were accepted for publication and presentation. It was decided that the next conference will be held in Liverpool, England, in 2019.

On September 11, a delegation from China's Haihe River Basin Water Resources Protection Bureau, HWCC of MWR, and the Science & Technology Development Co. Ltd. made a visit to the CSCE National Office. They met with Mr. Mahmoud Lardjane.

On October 25, 2016, Brian Burrell (CSCE Liaison Officer for Hong Kong, Macau and the Philippines) and the CSCE President Susan Tighe met with Mrs. Monica Yuen, Chief Executive and Secretary and other officials of the Hong Kong Institution of Engineers (HKIE) at the HKIE offices in Causeway Bay, Hong Kong. Accompanying them were members of the CSCE Hong Kong Branch.

NORTH ASIA

CSCE members-in-good-standing and with a thorough knowledge of North Asia were invited via the E-Bulletin to submit an expression of interest and a detailed statement of qualifications with respect to becoming IAC members, with special responsibility for North Asia (especially Japan, the Republic of Korea, and Mongolia). Ron Droste agreed to become Liaison Officer for Mongolia, but no Liaison Officer has yet been identified for Japan or Korea. This is a priority item for 2018.

THE AMERICAS

David Pratt (CSCE Liaison Officer for the Bahamas, Caribbean, Central and South America represented the CSCE at the Jamaica Institution of Engineers, JIE Engineers' Week 2016 Conference, September 19 -21, 2016, in Kingston, Jamaica. During 2017, he has maintained contact with the Bahamas Society of Engineers and the Jamaica Institution of Engineers, with which the CSCE has agreements of cooperation.

The CSCE International Region

The International Region includes all CSCE membership outside of Canada in several countries with differing cultures, languages, and economic and political systems. Due to its low and dispersed membership, the International Region unlike domestic Regions is more a geographic descriptor than a functioning entity with a Council, and program activities.

The CSCE aims to increase international membership, maintain contact with international members, improve benefits for international members, and recruit Institutional Members International (IMIs). The CSCE will fail to meet its international membership growth target (tripling of membership by 2020), requiring greater consideration of how it recruits and supports foreign members.

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 is an engineering society established in 2007 under Chapter 32 of the HK Companies Ordinance. It remains the CSCE's only Branch.

The CSCE Hong Kong Branch (CSCEHKB) remained active during 2017 under the leadership of Branch Chair Kelvin Cheung. The CSCEHKB (<http://www.csce.org,hk/>) held several events during 2017, in

recognition of the 150th Anniversary of Canadian Confederation, and the 130th Anniversary of the CSCE since its original formation in 1887. From May 31 to June 9, six students from three CSCEHKB student chapters had a study tour of the University of Toronto, Ryerson University, and York University. On June 9 and 10, 2017, the CSCEHKB held its first conference Seismic Effects on Buildings and Infrastructures, which was attended by over 150 participants. The CSCE supported the CSCEHKB conference. Dr. Dan Palermo (York) and Dr. Perry Adebar (UBC) were among the guest speakers. The Branch's Annual Dinner was held at the JW Marriott Hong Kong on the evening of October 26. CSCE President Dr. Susan Tighe and CSCE VP International represented the CSCE at the Annual Dinner.

Concluding Remarks by the VP International

Many CSCE members including IAC members and myself were saddened by the news of the passing of Dr. Todd Chan, former IAC Chair, and the CSCE's second VP international. At the time of his passing, he was serving as CSCE's VP of Global Partnerships. He was a strong advocate of work to advance international memberships and was largely responsible for the introduction of Institutional Members International as a CSCE membership category. His contributions to the IAC and the CSCE were many, and he will be missed by his many friends and former IAC colleagues.

Both Todd Chan and the late Kirk Thomson (CSCE's first VP International) expended considerable effort to enhance the international activities of the CSCE and to increase the recognition of the importance of these activities to the CSCE. It is my hope that these efforts will continue, and that the CSCE develops a stronger international program in the years ahead.

The many volunteers that work on behalf of the CSCE's international activities and programs are thanked for their efforts. Special gratitude is expressed to Dr. Rishi Gupta and Dr. Jeanne Huang, Chair and Deputy Chair, respectively, of the International Affairs Committee.

It has been an honour to serve as CSCE's VP International. I wish the next VP International success.

Brian C. Burrell, P.Eng., C. Eng., FCSCE
Vice President International

Report of the Honorary Treasurer

Brad Smid

The year 2017 provided several challenges to the CSCE annual operating budget. Net earnings were negative as a result of higher than expected costs related to Head Office restructuring, and lower than expected revenue. With many changes and challenges behind us, we anticipate the financial position of the society will stabilize in 2018.

In fiscal year 2018 we are focusing on several areas to increase revenue. This includes our ongoing efforts in membership, corporate membership, communications, life-long-learning, and conferences. These are our five main sources of revenue, and so far in 2018 the results appear positive. For this to be successful we need all CSCE members to “be loud, be proud, and be engaged”. Take part in our membership drive by taking the pin challenge, or helping to attract a corporate member. Attend and promote CSCE life-long-learning events and conferences. Wear your CSCE pin with pride and wave the CSCE flag whenever and however you can!

As revenues grow, the Society will continue to invest in its Vision 2020 goals, including leadership in sustainable infrastructure and growing with youth. As a volunteer-based organization, our success rides on our volunteers at the national, regional, and local level. We have made several changes in 2017 and 2018 to ensure that dollars are flowing to support the initiatives of our volunteers in sections, divisions, programs or committees. These investments will pay off in terms of increased activity and visibility of the society.

The CSCE’s financial statements, as audited and presented by the firm Collins Barrow, are appended to this annual report. The audit covers CSCE’s fiscal year period of January 1st 2017 to December 31st 2017.

I took the role of Honorary Treasure in June 2017. While the financial challenges facing the Society were very real, I have been impressed by the loyalty, dedication, and passion of CSCE national office staff, our executive leadership team, and volunteers throughout the society. I am confident that we have the people, the ideas, and the drive to get the Society back on a firm financial footing.

Brad Smid

Honorary Treasurer

Report of the CSCE Foundation

The CSCE Foundation is a registered charity whose purpose is “to acknowledge contributions of a civil engineering nature made by people for the benefit of society, and to recognize outstanding civil engineering works which have contributed to the development of Canada.” The CSCE Foundation includes the Canadian Society for Civil Engineering Foundation Trustees Fund and the Donald Jamieson Fellowship 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, 2017.

CSCE Foundation Financial Position			
	2015	2016	2017
Income			
Interest, dividend income and valuation gains	\$7,852	\$19,120	\$15,069
Donations	\$7,246	\$8,778	\$11,795
Expenses			
Awards, administration, publications	\$4,499	\$1,818	\$11,818
Net Change	\$10,599	\$26,080	\$15,046
Net Assets			
Foundation Fund			
History Program Fund	\$5,118	\$5,569	\$6,211
Shanley Award Fund	\$13,207	\$14,365	\$14,979
General Fund	\$155,196	\$168,827	\$178,329
Donald Jamieson Fund	\$111,046	\$121,887	\$126,175
Total Net Assets	\$284,567	\$310,648	\$325,695
Percent Growth from Previous Year (Net)	-3.1%	9.1%	4.8%

The Foundation has an Investment Policy to clarify transactions and to diversify portfolio assets across various sectors. The portfolio's return objectives are constructed to earn an average rate of return over a ten-year period and minimize the risk of capital loss. The portfolio's asset allocation includes: bonds and debentures, 60 - 70 percent; preferred shares 20 - 25 percent; equity as common shares or income trusts 10 - 15 percent; and 0 - 5 percent cash. The Investment Policy also established portfolio management guidelines, including: no more than 15 percent of equity in any one security, maintaining diversity across multiple sectors, equity holdings in mid-sized to large dividend paying companies, investment grade bonds and debentures with a maximum time to maturity of 10 years or less, and no more than 15 percent of preferred shares in any one mid-sized to large company. Several investments have been made in accordance with the Foundation's Investment Policy.

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.

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.

Actions undertaken in 2017, with respect to these goals include:

- Re-establishing communications, due to CSCE staff changes, between CSCE Foundation and RBC Dominion Securities where the funds are invested.
- Discussions with a wealth advisor from RBC Dominion Securities on the potentials for fund growth.
- 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 (2016-17): 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, PEng., FCSCE, FEC, FEIC
 Senior Trustee, CSCE Foundation

CSCE Second Century Fund

In early 1987, CSCE established the Second Century Fund for the purpose of ensuring the continuity and growth of the Society. The fundraising campaign took place under the Honorary Chairmanship of Camille Dagenais, then CEO of SNC Lavalin and the Chairmanship of John Bahen, then President of Peter Kiewit Sons Co, Ltd. Of Toronto.

The function of the Fund is to provide seed money for conferences and lecture tours; funds for publishing and marketing contracts; funds for the development of new divisions; and funds to inform the engineering community of all of the above.

The Fund will ensure the continued development of dynamic technical activities and world – class publications. Borrowing from the Fund is limited to 50% of the accumulated revenue in the previous year for non – revenue generating activities and is at competitive interest rates for revenue generating activities. Funding is accessed through a proposal to the Board of Directors.

The Fund is administered by a committee of trustees. The current trustees are: Randy Pickle, FCSCE, Dan Burns, FCSCE, David Innes, FCSCE, Michael Bartlett, FCSCE, Gord Jin, FCSCE, Chair Honors and Fellowships and Brad Smid, Honorary Treasurer, CSCE.

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Randy Pickle, PEng., FCSCE, FEC, FEIC
 Senior Trustee, CSCE Second Century Fund

Report of the Vice President - Administration Coordinating Committee

Wade Zwicker

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

Wade Zwicker

Vice President

Membership Services Committee

Chair: **Stephanie Daló**

Executive Summary

The Membership Services Committee continues to innovate and collaborate with internal and external groups. The Loyalty Program has been integrated into the HUB initiative (a.k.a. CSCE HUB) in order to increase the number of “Touchpoints” with membership. The “Loyalty HUB” Taskforce has shown early progress and has benefited from the Membership Services Committee’s prior work, research and discussions with Online Membership Portals & Social Multimedia. As the Loyalty HUB initiative strengthens and has become increasingly tangible, the taskforce has been assimilated with the Membership Services Committee.

Mentoring Program

The Mentoring Program was developed to focus on Strategic Direction #1 Enhanced Services to Members & #2 Growing with Youth through the creation of the Mentorship Program. The intent of this program is to increase the number, quality and intensity of relationships individual members have with each other by creating another touch point with the CSCE. The Mentors, in this program, benefit from gaining insight to a younger generation of Civil Engineers and Technologists,

while also developing their own skills as communicators and coaches. The Protégés/ Mentees benefit from having a conduit to a more senior group of Civil Engineers and Technologists that can help increase their insight from more established members.

As of April 23, 2018, there are 218 members versus the 210 members reported on March 28, 2017. The short term objective of 50 relationships between Mentor and Protégé has increased by 10% since 2017 and is now 98% achieved at 49 relationships. Observations & Recommendations include:

1. When consistent management and promotion are employed, this initiative grows quickly.

2. Without regular promotion and management, this initiative still grows but very slowly.
3. Based on observations #1 & #2, the Mentorship Program can continue to grow and reach a self sustaining “critical mass”.
4. Recommendation: Incorporate easy access to the Mentorship Program through the CSCE HUB to gain exposure to the tool. CSCE members can earn loyalty points as reward for mentoring or for being mentored through the Mentorship Program.

For the remainder of 2018, the Membership Services Committee will continue to promote

Below are charts for indicating the state of the Mentorship Program for the CSCE. (Please note: Some people are counted as both a mentor and mentee.)	March 2017	April 2018
Goals		
Percentage of mentees who have entered their mentoring goals in a relationship. As of March 2017, 13 mentoring relationships out of the 47 mentoring relationships established. In April 2018, 15 mentoring relationships out of the 49 mentoring relationships established.	27%	30%
Total number of goals entered	45	51
Total number of goals achieved	19	23
Mentoring Relationships		
Percentage of members who are currently in 1 or more mentoring relationships. As of March 2017, 84 members out of the 210 active members. In April 2018, 80 members out of the 218 active members.	40	36
Percentage of members who currently have 1 or more mentors. As of March 2017, 39 members out of the 210 active members. In April 2018, 38 members out of the 218 active members.	18	17
Percentage of members who currently have 1 or more mentees. As of March 2017, 29 members out of the 210 active members. In April 2018, 29 members out of the 218 active members.	13	13
Percentage of members who have calculated their mentoring hours. As of March 2017, 11 members out of the 210 active members. In April 2018, 13 members out of the 218 active members.	5	5
Mentoring Agreements		
Percentage of mentees and mentors who have completed a mentoring agreement. As of March 2017, 14 mentoring relationships out of the 47 established. In April 2018, 15 mentoring relationships out of the 49 established	29	30
Program Evaluations		
Number of mentees who have completed a program evaluation	0	2
Number of mentors who have completed a program evaluation	0	3

the CSCE Mentorship program with other online content, including the CSCE HUB. **CSCE HUB & Loyalty Program**
The CSCE HUB is in the second phase of its

development. A membership survey was conducted at the CSCE 2017 National Conference with a total number of 160 participants. Since then, the taskforce has

continued to develop the HUB and is determining ways in which the Loyalty Points Program can be integrated into the HUB (i.e. members will be able to set up a profile on their app and can collect points through continued involvement in CSCE events (local and national). Additionally, the HUB will be developed so that Mentorcity can be easily accessed by use of the app. The Membership Services committee is focused on streamlining these programs in order to provide members a means to feel more connected to the CSCE and provide them a tool that will showcase the value of the membership. Volunteer activities, including mentorship, section, region and national management/contributions, content development and promotion of Civil Engineering will be included in the program. The User Experience (UX) and User Interface (UI) design intent is to coordinate all activities along with inclusion of event and account management for individual, section, regional, national and corporate members. Selection process for service provider in progress.

Following analysis of the CSCE HUB survey results, it was determined that the minimal viable product (MVP) is too ambitious, causing the committee to consider iterative deliverable schedule. Estimated development on the current MVP will cost 40-60K and will take 3 months with a dedicated team. Continuing support will be required due to the version changes, but hosting costs is expected to be negligible. The committee will consider pursuing multiple different vendors to negotiate on scope of work rather than costs. The developer will be expected to provide deliverables every 2-3 weeks.

At this time, the committee will proceed with developing a beta version of the HUB using PeepSo (an open source, social network plugin for WordPress). See <https://www.peepso.com/addons/> for functionality.

Slack will be used as a means for HUB committee to follow development process and will assist when necessary.

The Membership Services Committee will have a booth at the Fredericton conference and will demo the HUB beta and sign members up for testing.

CSCE Podcast

Concept is still in development. In order to test this initiative, I will be creating 3 podcasts in Vancouver. The podcasts will

March 2017		April 2018	
Members 210	Searches 109	Members 218	Searches 122
Invitations 2	Relationships 47	Invitations 3	Relationships 49
Total Number of Mentors and Mentees <ul style="list-style-type: none"> Mentor Mentee Both Mentor and Mentee Do not appear in search results Do not have a relationship role 	Total Number of Mentors and Mentees <ul style="list-style-type: none"> Mentor Mentee Both Mentor and Mentee Do not appear in search results Do not have a relationship role 		
Members <ul style="list-style-type: none"> Active Inactive 	Members <ul style="list-style-type: none"> Active Inactive 		
Profiles <ul style="list-style-type: none"> Over 10% completed Incomplete 	Profiles <ul style="list-style-type: none"> Over 10% completed Incomplete 		
Available Mentors and Mentees <ul style="list-style-type: none"> Mentors Mentees 	Available Mentors and Mentees <ul style="list-style-type: none"> Mentors Mentees 		

be set up in a way to connect students/YP with more senior and experienced engineers and provide them a platform to communicate. A CSCE Executive member for the Vancouver section would invite a YP or student as well as the experienced engineer and will act as a moderator while interviewing each podcast guest. Topics will remain technical, however with the style of the podcast, the guests can go off on tangents and talk more about themselves and their interests. The objective is to create a 'community-feel' for the podcasts listeners. The podcasts will only be available to CSCE members and can be accessed on the CSCE website with plans to also be accessed through the CSCE Loyalty HUB app.

Member Appreciation Events

In order to demonstrate our gratitude to members, we would like to encourage CSCE chapter sections to integrate their AGMs with an event that includes a free meal and refreshments (and perhaps games or an interesting presentation, etc.). Members would be invited at no cost, and non-members and students will be welcome at a reasonable fee. The intent will be to make our members feel appreciated, as well as influence engineers who are engaged in CSCE activities see an added benefit to becoming a registered CSCE member. Consideration to budget is given, which may result in a 'first-come-first-serve' structure. The section chairs will have to notify the Membership Services Committee of their plans and provide an estimated cost. The Membership Services Committee will then provide funding for the event, which will vary depending on the number of chapter sections that intend to take advantage of this program. I would like to request \$3750 for this initiative. We will not force this program onto sections, but will inform them of the opportunity.

Composition of Membership Committee

Dedicated Committee Member(s): 2

Stephanie Dalo, Chair

Peter Calcetas, Past Chair

Peter Seibert, Communications
Student Members:

Max Midwinter, **Spencer Arbuckle**,

Jacob Terry, **Nudrad Bhuiyan**,

Drew Barlow

Coordination with other Committees: 2
Communications &
Business Development

Internal Customer Committees: 2
Student Affairs & Young Professionals

Stephanie Dalo

Chair

Communications Committee

Chair: **Peter Seibert**

The main focus of the Communications Committee is to increase the CSCE brand awareness with its members and the general public. The committee is responsible for developing strategies and implementing communication activities which support The Society's focus on:

- Contributing to retaining members or to attracting new members.
- Raising the profile of the Civil Engineering profession.
- Raising the awareness of sustainable infrastructure.

In 2017/18, the national office, especially Mahmoud Lardjane, took the lead for posting on Twitter, Facebook and LinkedIn accounts as part of the Social media strategy. The committee gained control of LinkedIn pages/groups from the past CSCE Executive Director and is assisting in managing these in conjunction with the national office.

Committee members were involved with the Loyalty Taskforce and assisted in the feedback survey. This taskforce is still looking for a computer consultant to develop a platform. The consultant will work with the current CSCE website and member database consultant, Francois Viens. The taskforce is currently in the process of preparing a beta test of the HUB software application for the 2018 conference.

In previous years, the committee developed a "CSCE" pin idea encouraging our members to wear a pin and to be proud of our profession. The CSCE team and Membership Committee built on this idea and created the pin challenge which has been successfully posted on the CSCE website and through social media.

The national office completed 6 member profiles under the "I am Civil Engineering" campaign to raise the public profile of civil engineering. These profiles are posted on the CSCE website. This initiative was an original idea of Communications

Committee and will be reactivated by the committee in 2018/19.

The committee previously developed an outline of a communication plan which still requires process mapping of all available communication tools. The process map will define the purpose, content generation, approval process and responsibility of each communication tool.

In 2018/19, the committee will focus on further increasing the CSCE brand awareness by showing that we (Civil Engineers) are passionate and proud of our profession. The Committee will investigate the value of the Civil Engineer Magazine and how it can be improved. The Committee will also focus on a more common message and platform across all social media outlets, as well as promoting the society's social media pages to gain a larger reach. The committee will continue to work in collaboration with the Member Services Committee and the Loyalty Hub Taskforce with a focus on making significant advances on the Hub platform, with hopes of increasing membership and member satisfaction. Press releases of the CSCE Awards for Excellence in Civil Engineering Innovation and for Governmental Leadership in Sustainable Infrastructure are scheduled to be communicated. The committee will focus on completing the Communication Plan and recruiting more committee members.

The current chair will pass on the leadership of the Communications Committee to Spencer Arbuckle. Spencer has been part of the communications committee for the past year, as well as other CSCE task forces and committees. He is very passionate about our profession and the strategies the CSCE has been working on implementing in the past and going forward. Spencer will be a great leader for this committee and will guide the committee to achieve its goals and purpose.

Currently the committee consists of 3 members: Peter Seibert, Peter Calcetas and Spencer Arbuckle. The committee is looking for more members to join to help achieve its goals.

Peter Seibert, M.Sc., MBA, P.Eng.
Chair

National Conference Committee

Semi-Annual Report

Chair: **Graham Sterparn**

1 COMMITTEE OVERVIEW

The purpose of the Conference Committee is to develop a Conference Strategy to provide more opportunities for interaction of members and future members through the development of Regional General Conference (RGC), and Technical Stand-Alone Conference (TSAC) events in addition to the Annual National Conference (ANC). These events are to bring added value to the CSCE membership.

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

The Committee is responsible:

- For the following conference goals: Consistency in the presentation and experience; Net revenue management; Risk management
- To support the CSCE Strategic Directions through the development and maintenance of a conference guideline and availability to discuss the successes and failures of previous conferences will provide members a better conference experience.

The Committee Initiatives include:

- Provide input for the annual update to the National Conference Guidelines - An ongoing process of reviewing and updating the conference guidelines after each National Conference to better support the Local Organizing Committee in the delivery of the conference program.
- Creation of a Stand-Alone Conference Guideline - Develop a guideline similar to the National Conference guideline to aid the promotion and delivery of Regional and Technical Stand-Alone Conferences.
- Provide ongoing guidance to each Conference organizing committee by being available to discuss issues or concerns as they arise during the pre-conference organizing period. This would include ongoing communications with the previous organizing committees.

2 COMMITTEE ACTIVITIES IN 2017

The Conference Committee conducted the following activities in 2017:

- Conference Committee Meeting June 2 – Vancouver including discussion on:
 - o Dates for the Annual General Conference – Conflict issues
 - o Coordination of the AGM and NO Meetings
 - o Status Update for 2018, 2019 and 2020
 - o Initial discussions on the development of the Regional and Technical Stand-Alone conferences
- Conference Committee Conference Call – September 13 including discussion on:
 - o Update to the National Conference Calendar
 - o Development of an overall Regional / Technical Stand-Alone Conference.
 - o Coordination of all conferences.
 - o Coordination of CSCE Conferences with International Conferences
 - o National Conference fees and expenses.
 - o Annual Conference Updates for 2017, 2018, 2019, 2020
 - o Development of the Regional / Technical Stand-Alone Conferences.
 - o Proposed Engineering Institute of Canada Conference
- Conference Committee Meeting November 4 – Montreal including discussion on:
 - o Coordination and development of policies for all form of CSCE Conferences.
 - o Annual National Conference included: Budget (further budget discussion moved to National Office level); Format – include a couple of “real world” papers bundled in with the academic papers; Addition of a History presentation track; Coordination of the AGM and NO Meetings with the National Conference structure; and National Conference updates for 2018,

2019 and 2020.

- o Regional Conferences - What format? As each Region creates and evolves to become successful.
- o Technical Stand-Alone Conferences

A series of action items were developed and discussed at the subsequent meetings. Resolution to incomplete action items will be carried forward to 2018.

3 COMMITTEE PLANS FOR 2018

In 2018 the committee will focus on further development of the Regional and Stand-Alone Technical One-Day Symposiums to provide further opportunity for member participation and membership growth.

Additionally, the committee will:

- Review and update definitions of the National, Regional and Technical Conferences.
- Continue to encourage the Regional and Technical Chairs to develop a program of Regional and Stand Alone Technical conferences to augment the National Conference.
- Commencing immediately with an updated National Conference guide being available for the 2018 Conference Committee. (Assumes London and Vancouver are working with the current conference guide)
- Continue the development of the Stand-Alone Conference Guide for Regional and Technical Stand-Alone Conferences.

Graham Sterparn, P.Eng., FCSCE

Chair

Honours and Fellowships Committee

Chair:

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

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, two student scholarships and five 'best paper' awards. The Honours and Fellowships Committee is also responsible

for organizing and conducting the awards ceremony at the CSCE Annual Conference.

The membership of the Honours and Fellowships Committee increased in 2017 with Jean-Luc Martel becoming a member of the committee. The committee is still searching for a member to assume the role of Best Paper Coordinator.

At the 2018 Awards for Civil Engineering Excellence Gala, in Fredericton, NB, in June 2018, 17 members of CSCE will be awarded the status of Fellow, the winners of three Best Paper Awards will be announced, and seven members will be recognized for contributions to CSCE and/or the profession. The Honours and Fellowships Committee is reviewing the Excellence in Innovation in Civil Engineering Award and the Award for Government Leadership in Sustainable Infrastructure due to issues that have arisen. In regards to the Award for Government Leadership in Sustainable Leadership, a committee has been struck to develop a business plan for the future of this award.

The Honours and Fellowships Committee is also responsible for a high level review of the nominations for Fellowships and other awards of the Engineering Institute of Canada. At the EIC Awards Gala in Gatineau in April 2018, two members of CSCE were awarded Fellowships and three members of CSCE were awarded the senior awards of the EIC

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

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

NATIONAL HISTORY COMMITTEE Chair: **Alistair MacKenzie**

The Committee includes members from BC, Alberta, Saskatchewan, Québec, Nova Scotia, New Brunswick and Ontario. Three regular Teleconference Meetings have been held throughout the year plus one at the Annual

Conference. During the year, the Committee welcomed as a new member Kevin Baskin (Vancouver). Following the Committee's succession plan, in June 2018 Michael Bartlett will assume the role of Chair and Bruce Higgins will take over the role of Secretary/Treasurer from Peter Wright.

The Committee has been working with the Local Organizing Committee for the 2018 Fredericton Conference on the Historic Site Commemoration for the William L. Barrett Water Treatment Plant and with setting up History Paper/Presentation Sessions.

The identification and commemoration of National Historic Sites continues to be one of the Committee's principal activities. The recognition of the Iqaluit Airfield in Nunavut as a National Historic Civil Engineering Site has been approved by the Board. Work is continuing on the plaque wording which will be in four different languages, English, French, Inuktitut, and Inuinnaqtun – Inuktitut is the translation presented with syllabics text, and Inuinnaqtun is a dialect from the Hudson Bay region that uses Arabic text. No date has yet been set for a plaque unveiling ceremony. The Joint nomination of the Boundary Layer Wind Tunnel at Western University as an International Historic Site has been approved by the ASCE Board. Plans are in hand to formalize the plaque wording and to make plans for a ceremony.

This year's W. Gordon Plewes Award winner is Ken Johnson for his extensive work in researching, writing and presenting on Northern and Cold Region projects of historical importance and engineering excellence in several media outlets. Ken was also the lead "captain" in the nominations for the Alaska Highway and the White Pass and Yukon Railway as International Historic Sites, The Town of Inuvik, the Snare River Hydro Electric Project and the Iqaluit Airfield as National Historic Sites and the Dredge #4 as a Regional Historic Site. Ken will attend the Fredericton Conference to accept the award.

Following the selection of the Library of the University of Ontario Institute of Technology (UOIT) as the repository of CSCE archival material, James Garland has been appointed as the Society's Liaison Person. Work is still in progress on the drafting of a Memorandum of Understanding between the two organizations.

The very successful CSCE Sesquicentennial

History Project led by Alan Perks will be featured at the Fredericton Conference and is available to all Regions, Sections and municipalities who wish to exhibit it. This project represents an impressive amount of work and the committee is indebted to Al Perks for his effort in putting the exhibit together.

After considerable delays, the History Committee Website has been re-established and work continues on upgrading and adding to the material which it presently contains. A template for the Historic Site WebPages is being developed to standardize the way in which the material about each site is presented. The Committee is also creating a "Historic Site Monitoring Log" which is intended to improve information about the historic sites by monitoring and updating the condition of both plaques and the sites themselves. Monitoring will be carried out by Committee members across the country who will take responsibility for a number of sites in their area.

The Committee is in the early stages of compiling short history notes commemorating important dates in Civil Engineering History for inclusion in future CSCE E-Bulletins.

Liaison continues with the History Committees of both ASCE and ICE. The Triennial Conference in London, England is expected to include a commemoration ceremony recognizing the 200th anniversary of the founding of the ICE. This will be in the form of a plaque to be mounted on the ICE Headquarters building which will include the logos of ICE, ASCE and CSCE.

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 taking my leave as Chair of the National History Committee for the third and last time, 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. I am delighted to leave the Committee in the very sound hands of Mike Bartlett.

Alistair MacKenzie
Chair

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

Structures Division

Chair: **Ashraf El Damatty**

Members of the Structures Division are heavily involved in the 6th International Structural Specialty Conference will be held on June 13-16, 2018 in Fredericton, New Brunswick. The conference is co-chaired by Dr. Kaveh Arjomandi and Dr. Ashraf El Damatty. The conference theme is Building Tomorrow's Society, explored in 15 tracks: Bridges and Transportation Structures, Buildings and Special Structures, Sustainability and Resilience, Earthquake Engineering and Structural Dynamics, Wind Engineering, Fire Engineering, Extreme Loads on Structures, Structural Health Monitoring, Steel Structures Special Topics, Concrete Structures Special Topics, Wood Structures Special Topics, Composite Structures Special Topics, and Soil-Structure Interaction. The conference has received a total of 99 full papers. Prof. Bill Spencer from the University of Illinois, Urbana-Champaign, an expert in Structural Health Monitoring, will be a keynote speaker in the conference. Members of the Structures Division are also involved in organizing the 10th International Conference on Short and Medium Span Bridges, SMSB-X, which will take place in Quebec City, in July 31– August 3, 2018. The conference is co-chaired by Dr. Adel Zaki and Dr. Jose Bastien. The Conference is focussing on the theme **“Build Bridges...not Walls”**.

Two new committees were established last year; the Fire Committee and the Wood Committee. The two committees had very strong start with significant accomplished activities. The Fire committee has stabilized membership balancing industry and research. It has developed a white paper on the practice, which passed the peer review for CJCE. Members are working to develop fire design guidance for timber and steel structures planned to complete by fall of next year. Committee is working closely with equivalent in USA, ASCE.

The Wood Structures committee has been involved in outreach activities in recent months. Members contributed to a special edition of CSCE Magazine on Wood

Structures published in late 2017. Several members are also involved in Wood Education curriculum development initiative of the Canadian Wood Council.

Chair: **Ashraf El Damatty**

Transportation Division

Chair: **Tony Qiu**

The year of 2017-2018 is a successful and productive year for the CSCE Transportation Division, and we have worked with our partner Wuhan University of Technology to co-host our 4th International Conference on Transportation Information and Safety (ICTIS) in the Banff conference centre. This is the first time for the ICTIS to be hosted outside of China, and it will take place in Liverpool in 2019. There are more than 200 attendees to participate in this conference, and Susan Tighe has given a welcome greeting talk and keynote presentation in the conference on behalf of CSCE.

The CSCE Transportation Division has organized and published a specific issue in Canada Civil Engineer (CCE) magazine. This issue of CCE magazine provides insight into the work and future of data analytics in the transportation field. The first article uses GPS data to describe the sample size requirements under different traffic states when estimating the link travel speed on urban freeways. The second article presents the work conducted to improve traffic mobility performance, involving implementation of a proactive variable speed limit control in the field. The third article describes the work underway at the University of Calgary to develop such a Web mining driven traffic analytics system. The CSCE Transportation Division has also been working with our long-term strategic partner China Highway and Transportation Society (CHTS) to organize a special session in the oncoming 2018 World Transportation Convention (WTC). Look forward to another successful WTC, and also hope more and more CSCE members will attend this conference in June.

Tony Qiu

Chair

Construction Division

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

As usual, members of the construction division are active. This year, two of our members, Lloyd Waugh and Jeff Rankin, are conference chair and technical chair of CSCE 2018, respectively. Linda Newton is chairing the CSCE Technical Publications Committee, which is responsible for the standardization of the CSCE conference documentation and proceedings guidelines and the indexing of existing and future CSCE conferences.

The division is also implementing a plan to promote its visibility. A committee composed of Linda Newton, Farnaz Sadeghpour, Sara Rankohi, Mohamed Issa and Adel Francis has been formed for this purpose. Several tasks and committees have been proposed. Jeff Rankin reviews the division's mandate and objectives. Adel Francis has updated the division's website (in English and French), including the organization chart, the member list and an interactive Google map for members and their affiliates. Farnaz Sadeghpour is working on the guidelines and preparing a white paper for a new Blue Sky student competition. Mohamed Issa and Sara Rankohi are preparing the student colloquium for CSCE 2019 in Montreal. To promote the colloquium, the visibility committee suggests several initiatives, in particular sending out an earlier call for posters, sending letters through professors, sending e-mails to students (also via the website), and targeting students already going to the conference. To standardize the selection criteria and processes for the Alan Russell Award, the division proposes a permanent committee.

The division is actually working to propose a new Moselhi Best Construction Conference Paper Award. It is also continuing its collaboration with the Construction Research Congress (CRC) of the American Society of Civil Engineering (ASCE). This year, several members attended this congress in New Orleans. We also had our informal meeting there, and on behalf of the division,

Mohamed Al-Hussein made a presentation to invite the CRC members to join CSCE 2019. Adel Francis officially invited the CRC to join the 2019 International Construction Specialty Conference (ICSC), a part of the CSCE annual conference in Montreal. About 20 years ago, Simaan AbouRizk launched an annual industry forum to promote continuous research collaborations between universities and industry, which has been a medium for showcasing research and fostering connections with the industry through the Construction Industry Institute (CII).

The division is thinking about promoting a university-industry collaboration for research and education through our website and other means to create networking opportunities for all division members and the industrial partners.

Adel Francis, ing, PhD, FCSCE
Chair

Environmental Division Chair: **Catherine Mulligan**

The Environmental division has been involved in the review process and the organization of the Fredericton Environmental Specialty Conference of this year. The Specialty Conference is co-chaired by Kripa Singh and Catherine Mulligan. C. Mulligan has agreed to chair the Environmental Specialty conference in Montreal for next year.

Other activities included sustainable solid waste management workshops on Aug 15th and Dec 15th, 2017 in Regina. Kelvin Ng's research group organized two public waste workshops on the campus of the University of Regina in 2017. The events were well-attended by students, staff, engineers and policy makers (from the Ministry of Environment). The local CSCE student chapter was also a partner in the organization and promotion of the workshops.

The project was recently selected by the Saskatchewan Regional Centre of Expertise (RCE) on Education for Sustainable Development RCE award committee for an 2018 Saskatchewan Education for Sustainable Development Recognition Award. Official announcement of all the award recipients will be made on May 2, 2018.

Project title: University of Regina Sustainable Solid Waste Management Workshops
Project lead: Kelvin Ng
Team members: Kelvin T. W. Ng, Amy Richter, Damien Bolingbroke, Priscila Dickinson, Hoang Lan Vu, Conglian Pan, Bahareh Shahidpour

Bing Chen is working on a special issue of CIVIL magazine with a theme on "Persistent and Emerging Pollution and Mitigation Technologies". It is in progress and is targeted for the summer or fall issue.

Catherine Mulligan
Chair

Hydrotechnical Division

Chair: **Kerry Mazurek**

The major activity of the Hydrotechnical Division since its last report was the 23rd Canadian Hydrotechnical Conference, which was held in conjunction with last year's Annual General Meeting in Vancouver. At the conference, there were 60 papers presented, a tour of the Northwest Hydraulics Consultants Ltd. Hydraulics Laboratory, a dinner cruise, and a workshop on assessment of climate change. The main activity of the Division for the upcoming year include planning of the 24th Hydrotechnical Conference that will be held again alongside the CSCE Annual General Meeting in Laval, Quebec. The other activities of the Division will focus on promoting its activities through its improving its presence on the CSCE National website, better advertising the conference, promotion of graduate student attendance at the conference, and reinvigorating the Hydrotechnical Division with inclusion of new members on the Council and integration with local section activities.

Kerry Mazurek
Chair

Engineering Mechanics and Materials (EMM) Division

Chair: **M. Shahria Alam**, PhD., P.Eng

The mission of Engineering Mechanics and Materials Division is to contribute to maintaining high standards of 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 prompting poster and paper presentations during the specialty conferences.

Vice-Chair of EMM Division Announced: Dr. Moncef Nehdi, Professor in the Department of Civil & Environmental Engineering at Western University has agreed to serve as the Vice-Chair of EMM division of CSCE. EMM division is going to introduce several sub-committees and their corresponding leads in the coming month to further increase its activities and make substantial contributions to engineering profession and to the society.

CSCE EMM Conference

The Division is actively working towards organizing the 7th International Materials Specialty Conference (2018 CSCE Annual Conference), to be held in Fredericton, NB Canada, June 13-16, 2018. As a part of this conference, the Division is organizing a panel discussion on "Improving the quality of Hot Mix Asphalt: bridging the gap between the academy and the practice", featuring 3 to 4 experts including academics and practising engineers. Furthermore, the EMM Division is inviting a number of plenary speakers to make presentations at the conference.

EMM Division Meeting:

CSCE Division meeting invites all members to participate where the idea of having multiple cluster and the respective group

leader will be announced. Each group leader will give a 5 minute presentation. Refreshments will be served.

Location: Meeting room: Barker's Point A, Crowne Plaza Hotel, Fredericton, NB

Date: June 13 2018

Time: 4:30 PM to 6 PM

To find out the detailed schedule, please check this website: <https://www.csce2018.ca/schedule/>

Best student presenter awards

Three best student paper awards will be given out in the 7th International Materials Specialty Conference during the 2018 CSCE Annual Conference in Fredericton.

Undergrad student travel grants

A total of six travel grants will be awarded to undergraduate students to present their papers at the 7th International Materials Specialty Conference to be held during the 2018 CSCE Annual Conference in Fredericton. A faculty member (must be a CSCE member) must nominate his/her student. In order to get nominated, the undergraduate student should be the lead author of the paper, be the presenter of the paper, and be a CSCE student member.

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

M. Shahria Alam, PhD., P.Eng.
Chair

Report of the Vice President, Program Coordinating Committee Technical Programs

Technical Publications Committee

Chair: **Linda Newton**

Membership: Adel Francis, Jeff Rankin, Ahmad Jrade, Farnaz Sadeghpour, Qiuyuan Yuan, Haibo Niu, Mike Bartlett (Ex-officio), Medhat Shehata, Sadegh Kazemi

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

1. Develop and implement a CSCE Proceedings archive that will provide access for all members and public access for past proceedings for years 2013, 2014, 2016 & 2017, and support the indexing of CSCE conference (new and past) proceedings in Google Scholar; and
2. Revise CSCE Conference Publication Guidelines. The Committee's work is effective, on-going and important to making past and current technical publications more easily accessible on-line.

Linda Newton

Chair

National Lecture Tour

Coordinator: **James Garland**

National Lecture Tours (NLT's) are a vehicle for sharing technical information of interest to civil engineers with CSCE members across Canada. These are often in the form of a lunch or dinner lecture presented to Section Meetings. The topics are selected in consultation with Sections regarding interests and Technical Divisions and other expert groups regarding available speakers. Following the very successful 2016 NLT on Canada's Infrastructure Report Card, the 2017-2018 NLT presented the story of the Lac Mégantic train derailment in eastern Quebec.

Lac-Mégantic's Human and Environmental Disaster:

The event, the impacts and the lessons to be learned was presented to 18 CSCE Sections across Canada by Senator Prof. R. Galvez, Ph.D., P.Eng. Over 550 civil engineers attended the NLT in person. It was also recorded for future development into a web-based presentation.

Planning is now underway for the 2018-2019 NLT. Members are encouraged to contact the NLT Coordinator, James Garland, or the CSCE National Office to provide suggestions for topics and speakers.

James Garland

Coordinator

Report of the CSCE Nominating Committee (2018–2019)

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

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

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)	Catharine Mulligan, end of term	Dharma Wijewickreme	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 4th yr	Charles–Darwin Annan	1 yr
Chair, Young Professionals Group	Kaminski, finishing 1st yr	Nicholas Kaminski	1 yr

REPORTING TO VICE PRESIDENT, INTERNATIONAL

International Affairs Committee	Gupta, finishing 4th yr	Rishi Gupta	1 yr
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ADMINISTRATION COORDINATING COMMITTEE

Chair, Communications Committee	Siebert, finishing 3rd yr	Spencer Arbuckle	2 yrs
Chair, Conference Committee	Sterparn, finishing 3rd yr	Graham Sterparn	1 yr
Chair, Corporate Engagement Committee	Bégin, finishing 1st yr	Jim Gilliland	1 yr
Chair, National History Committee	MacKenzie, finishing 3rd yr	Mike Bartlett	1 yr
Chair, Honours and Fellowships Committee	Jin, finishing 1st yr	Gordon Jin	1 yr
Chair, Life Members Committee	Committee consolidated into Membership Services Committee Effective 2018		
Chair, Membership Services Committee	Dalo, finishing 2nd yr	Stephanie Dalo	1 yr

PROGRAMS COORDINATING COMMITTEE

Technical Divisions & Committees

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

Technical Programs

Chair, Engineering Practice Committee	Scanlon, finishing 2nd yr	To be determined	TBD
Chair, Education and Research Committee	Dragomirescu, finishing 4th yr	Elena Dragomirescu	1 yr
Chair, Infrastructure Renewal Committee	Félio, finishing 2nd yr	To be determined	TBD
Chair, Technical Publications Committee	Newton, finishing 4th yr	Farnaz Sadeghpour	2 yrs
Editor, CJCE	Biswas, finishing 3rd yr	Nihar Biswas	1 yr
NLT Coordinator	Garland, finishing 4th yr	James Garland	1 yr

Membership Statistics – 2017

Comparative Statistics Comparative

Comparative	Count
Fellow	171
Member (Corp, US & Intl, New)	1060
Associate Member (1-4)	67
Technical/Professional Affiliate	11
Technologist (1st +)	4
SUB TOTAL - FULL PAYING MEMBERS	1313
GRAND TOTAL	2011

Comparative

Comparative	Count
Life Member	9
Fellow Life Member	34
Retired Member	10
Fellow Retired Member	14
Associate Member (0 Year)	2
SUB TOTAL - MISC	69
Student	629
GRAND TOTAL	2011

Regions Statistics Regions

Regions	Count
Atlantic	144
Null	2
Ontario	723
Prairie	157
Quebec	367
Western	593
SUB TOTAL - CDN	1986
Foreign	101
GRAND TOTAL	2087

Membership Statistics Membership

Membership	Count
Membership - Member	862
Membership - Associate Member (1st Year)	12
Membership - Life Member	9
Membership - Fellow	171
Membership - Retired Member	10
Membership - Student Member	629
Membership - Associate Member (2nd Year)	12
Membership - Associate Member (3rd Year)	25
Membership - Associate Member (4th Year)	18
Membership - Fellow Life Member	34
Membership - Fellow Retired Member	14
Membership - Affiliate Member (2nd Year)	1
Membership - Affiliate Member	11
Membership - Technologist Member	4
Membership - New Member (PENDING)	6
Regular	
Membership - Corporate Member	97
Membership - Associate Member (0 Year)	2
Membership - Corporate Associate	1
Membership - Corporate Fellow	8
Membership - Sustaining	50
Grand Total	2087
Membership	Count
Membership - Sustaining Fellow	8
SUB TOTAL - CDN	1984
TOTAL Foreign & US	101
Grand Total	2085

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

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

Beijing Normal University
Chu Hai college of Higher Education
The Hong Kong University of Science & Technology
Nanjing Hydraulic Research Institute
Nankai University
North China Electric Power University

Tianjin Research Institute of Building Science
Wuhan University of Technology
Xiamen University of Technology
Xuchang University
Zhengzhou University
Zhengzhou University of Industrial Technology

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING
FINANCIAL STATEMENTS
FOR THE YEAR ENDED DECEMBER 31, 2017

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INDEPENDENT AUDITOR'S REPORT

To the Members of
The Canadian Society for Civil Engineering

We have audited the accompanying financial statements of **The Canadian Society for Civil Engineering**, which comprise the statement of financial position as at December 31, 2017, and the statements of second century fund and unrestricted, revenues and expenditures and cash flows for the year then ended, and a summary of significant accounting policies and other explanatory information.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these 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.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with Canadian generally accepted auditing standards. Those standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the organization's preparation and fair presentation of the financial statements 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. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

INDEPENDENT AUDITOR'S REPORT (cont'd.)

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the financial statements present fairly, in all material respects, the financial position of **The Canadian Society for Civil Engineering** as at December 31, 2017, and the results of its operations and its cash flows for the year then ended in accordance with Canadian accounting standards for not-for-profit organizations.

Collins Barrow Montreal S.E.N.C.S.L./LLP ¹

Montréal, Québec
May 14, 2018

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

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING
STATEMENT OF FINANCIAL POSITION
AS AT DECEMBER 31, 2017

	2017	2016
ASSETS		
Current		
Cash and cash equivalents (Note 4)		
Unrestricted	\$ 246,677	\$ 595,022
Restricted	90,634	89,170
Accounts receivable (Note 5)	83,897	91,097
Government remittances receivable	36,078	27,234
Conference advances	10,148	23,591
Prepaid expenses	6,046	21,051
	<u>473,480</u>	847,165
Property and equipment (Note 6)	2,025	1,569
Software (Note 7)	23,317	17,646
	<u>\$ 498,822</u>	<u>\$ 866,380</u>
LIABILITIES		
Current		
Accounts payable and accrued liabilities	\$ 77,273	\$ 254,535
Government remittances payable	7,462	8,398
Due to regions and sections	41,996	67,724
Deferred revenue	74,172	10,071
Unearned competition revenue	20,118	12,840
Current portion of transfer payable - Second Century Fund (Note 8)	1,356	1,356
	<u>222,377</u>	354,924
Transfer payable - Second Century Fund (Note 8)	4,067	5,423
	<u>226,444</u>	<u>360,347</u>
NET ASSETS		
Second Century Fund	90,634	89,170
Unrestricted	181,744	416,863
	<u>272,378</u>	<u>506,033</u>
	<u>\$ 498,822</u>	<u>\$ 866,380</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, 2017**

	2017	2016
SECOND CENTURY FUND		
Balance, beginning of year	<u>\$ 89,170</u>	<u>\$ 159,650</u>
Transfer of funds (Note 8)	-	(70,616)
Repayment of transfer payable (Note 8)	<u>1,356</u>	-
Interest earned on transfer payable	<u>108</u>	<u>136</u>
	<u>1,464</u>	<u>(70,480)</u>
Balance, end of year	<u><u>\$ 90,634</u></u>	<u><u>\$ 89,170</u></u>
UNRESTRICTED		
Balance, beginning of year	<u>\$ 416,863</u>	<u>\$ 404,645</u>
Net (loss) earnings	<u>(235,119)</u>	<u>12,218</u>
Balance, end of year	<u><u>\$ 181,744</u></u>	<u><u>\$ 416,863</u></u>

See accompanying notes

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING
STATEMENT OF REVENUES AND EXPENDITURES
FOR THE YEAR ENDED DECEMBER 31, 2017

	2017	2016
Revenue		
Membership fees		
Full members	\$ 195,921	\$ 219,812
Corporate	87,942	96,545
Sustaining members	17,600	14,500
Institutional members	6,050	7,100
Communications		
Magazine	60,782	59,140
Other	22,116	16,721
Lifelong learning	26,466	74,976
Annual conference	578,150	629,120
Conferences (net)	-	54,101
Management fees	30,000	25,000
Interest	6,173	5,587
Miscellaneous	25,692	10,513
	1,056,892	1,213,115
Expenditures		
Administration	502,031	403,981
Communications	89,449	83,149
Lifelong learning	70,343	82,458
Rebates to regions and sections (recovery)	(22,854)	2,409
Committees and Board	55,340	64,336
Annual conference	517,031	484,531
Annual meeting	18,798	15,906
Special projects	3,827	1,508
Awards and sponsorship	36,126	33,270
Interest on transfer payable - Second Century Fund (Note 8)	108	136
Financial charges	11,373	12,536
Miscellaneous	10,439	16,677
	1,292,011	1,200,897
Net (loss) earnings for the year	\$ (235,119)	\$ 12,218

See accompanying notes

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING
STATEMENT OF CASH FLOWS
FOR THE YEAR ENDED DECEMBER 31, 2017

	2017	2016
Operating activities		
Net (loss) earnings for the year	\$ (235,119)	\$ 12,218
Adjustment for		
Amortization	<u>12,133</u>	<u>10,001</u>
	(222,986)	22,219
Net change in non-cash working capital items		
Decrease in accounts receivable	7,200	36,534
Increase in government remittances receivable	(8,844)	(10,580)
Decrease in conference advances	13,443	4,432
Decrease (increase) in prepaid expenses	15,005	(6,523)
(Decrease) increase in accounts payable and accrued liabilities	(177,263)	158,078
Decrease in government remittances payable	(936)	(334)
Decrease in due to regions and sections	(25,728)	(1,839)
Increase (decrease) in deferred revenue	64,101	(68,914)
Increase in unearned competition revenue	<u>7,278</u>	<u>12,840</u>
Cash (used in) provided by operating activities	<u>(328,730)</u>	<u>145,913</u>
Investing activity		
Purchase of equipment	<u>(18,259)</u>	<u>(18,168)</u>
Financing activities		
Advance from Second Century Fund	-	(70,616)
Interest earned in transfer payable - Second Century Fund	108	136
(Decrease) increase in transfer payable - Second Century Fund	(1,356)	6,779
Repayment to Second Century Fund	<u>1,356</u>	<u>-</u>
Cash provided by (used in) financing activities	<u>108</u>	<u>(63,701)</u>
(Decrease) increase in cash and cash equivalents	(346,881)	64,044
Cash and cash equivalents, beginning of year	<u>684,192</u>	<u>620,148</u>
Cash and cash equivalents, end of year	<u>\$ 337,311</u>	<u>\$ 684,192</u>
Cash and cash equivalents consist of:		
Cash and cash equivalents	\$ 246,677	\$ 595,022
Cash - restricted	<u>90,634</u>	<u>89,170</u>
	<u>\$ 337,311</u>	<u>\$ 684,192</u>

See accompanying notes

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING

NOTES TO THE FINANCIAL STATEMENTS

AS AT DECEMBER 31, 2017

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 12.

2. **Significant accounting policies**

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

(a) **Measurement uncertainty**

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

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING
NOTES TO THE FINANCIAL STATEMENTS
AS AT DECEMBER 31, 2017

2. Significant accounting policies (cont'd.)

(b) Financial instruments

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

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

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

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

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

Impairment

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

(c) Property, equipment and software

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

(d) Revenue recognition

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

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

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

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING
NOTES TO THE FINANCIAL STATEMENTS
AS AT DECEMBER 31, 2017

2. Significant accounting policies (cont'd.)

(e) The Second Century Fund

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

(f) Regional operations

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

3. Financial instruments

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

4. Cash and cash equivalents

Included in cash and cash equivalents are Guaranteed Investment Certificates bearing interest between the bank's prime interest rate less 2.1% and 1.31%, maturing between April 2018 and June 2020 (2016 - bank's prime interest rate less 2.1% and 1.31%, maturing between May 2017 and June 2020).

5. Accounts receivable

	<u>2017</u>	<u>2016</u>
Trade receivables	\$ 89,646	\$ 110,177
Allowance for doubtful account	<u>(5,749)</u>	<u>(19,080)</u>
	<u>\$ 83,897</u>	<u>\$ 91,097</u>

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING
NOTES TO THE FINANCIAL STATEMENTS
AS AT DECEMBER 31, 2017

6. Property and equipment

	<u>2017</u>			<u>2016</u>
	<u>Cost</u>	<u>Accumulated amortization</u>	<u>Net</u>	<u>Net</u>
Property and equipment	<u>\$ 21,648</u>	<u>\$ 19,623</u>	<u>\$ 2,025</u>	<u>\$ 1,569</u>

7. Software

	<u>2017</u>			<u>2016</u>
	<u>Cost</u>	<u>Accumulated amortization</u>	<u>Net</u>	<u>Net</u>
Database software	<u>\$ 58,155</u>	<u>\$ 34,838</u>	<u>\$ 23,317</u>	<u>\$ 17,646</u>

8. Transfer payable - Second Century Fund

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

Transfer payable to the Second Century Fund, repayable in 5 equal payments, bearing interest at 2% per annum, payable annually and maturing December 2021. Interest of \$108 (2016 - \$136) was incurred during the year.	<u>\$ 5,423</u>
Less current portion	<u>1,356</u>
Due beyond one year	<u>\$ 4,067</u>

Estimated repayments are as follows:

2018	\$ 1,356
2019	1,356
2020	1,356
2021	<u>1,355</u>
	<u>\$ 5,423</u>

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING
NOTES TO THE FINANCIAL STATEMENTS
AS AT DECEMBER 31, 2017

9. Commitments

(a) Office space

The Society has leased office space at a minimum annual rent of \$27,000 until August 31, 2020.

(b) Regional rebates

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

(c) EIC core program fee

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

10. Operating demand loan

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

11. 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.

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING
NOTES TO THE FINANCIAL STATEMENTS
AS AT DECEMBER 31, 2017

12. 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>2017</u>	<u>2016</u>
Assets		
Cash	\$ 112,896	\$ 71,848
Investments	203,410	229,376
Accounts receivable	<u>9,388</u>	<u>9,425</u>
	<u>\$ 325,694</u>	<u>\$ 310,649</u>
Net Funds		
Trustees Fund		
Balance, beginning of year	\$ 188,761	\$ 173,522
Interest	496	1,405
Dividends	2,704	2,532
Fair value gain	4,776	6,051
Donations	8,600	6,350
Awards and other expenses	<u>(5,818)</u>	<u>(1,099)</u>
Balance, end of year	<u>\$ 199,519</u>	<u>\$ 188,761</u>
Jamieson Fund		
Balance, beginning of year	\$ 121,887	\$ 111,046
Interest	441	1,285
Dividends	2,405	2,315
Fair value gain	4,247	5,532
Donations	3,195	2,428
Awards and other expenses	<u>(6,000)</u>	<u>(719)</u>
Balance, end of year	<u>\$ 126,175</u>	<u>\$ 121,887</u>

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING
NOTES TO THE FINANCIAL STATEMENTS
AS AT DECEMBER 31, 2017

13. Comparative figures

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