

Canadian Society for
Civil Engineering



Société canadienne
de génie civil

2016
2017 | ANNUAL
REPORT



Table of Contents

- 3 Minutes of 2016 Annual General Meeting
- 5 President's Report
- 6 Report of the Senior Vice President
- 11 Report of the VP International
- 14 Report of the Honorary Treasurer
- 15 Report of the Vice President, Program
Coordinating Committee – Technical Divisions
and Committees
- 18 Report of the Vice President - Administration
Coordinating Committee
- 23 Report of the CSCE Foundation
- 24 Report of the 2016-2017 Nominating Committee
- 25 Membership Statistics 2014, 2015 and 2016
- 26 CSCE Second Century Fund
- 27 Auditors' Report and Financial Statements
December 31, 2016

CSCE National Office

521 - 300 rue St-Sacrement
Montréal, Québec H2Y 1X4
Tel: (514) 933-2634 Fax: (514) 933-3504
web: <http://www.csce.ca>

Minutes of the 2016 Annual General Meeting (AGM)

June 4, 2016, London Convention Centre, Ballroom

London, Ontario

1. Call to Order

The 2016 Annual General Meeting (AGM) of the Canadian Society for Civil Engineering was called to order by President Tony Bégin at 1:30 p.m. It was determined that quorum was present (33 voting members required per Section 13.1 of the by-laws - 37 voting members in attendance) 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. Jim Kells/John Newhook – unanimous – motion approved.

3. Approval of the Minutes of the 2015 Annual General Meeting, May 30, 2015 (Regina Saskatchewan)

MOTION: that the minutes of the 2015 Annual General Meeting, as provided in the 2015-2016 Annual Report, be accepted. Peter Wright/Gord Jin – unanimous – motion approved

4. President's Report

1. President Bégin asked all participating Board members to stand and be acknowledged.
2. President Bégin reviewed the strategic accomplishment of 2015 and outlined progress made by Board members on Strategic Initiatives committed to in January of 2016. President Bégin reminded the members to watch for the mid-year Strategic Initiatives Report Card due to be released in early July of 2016

5. Honourary Treasurer's Report

Glenn Hewus, Honourary Treasurer, reported on the financial situation of the Society, as of the end of the fiscal year, September 30, 2014. Hewus also reminded the members in attendance that the Board of Directors at the November 14, 2014 meeting revised the fiscal year for CSCE. The 2015-2016 Annual Report provided at the Annual General Meeting is the first annual report with financial statements for the new fiscal period.

MOTION: that the audited financial statements for the period ending December 31, 2015 be accepted. Glenn Hewus/Susan Tighe – unanimous – motion approved

MOTION: that the 3 month unaudited financial statements for the period October 1, 2014 to December 31, 2014 be accepted – 35 in favour, 2 abstentions – motion approved

6. Other motions

MOTION: that all reports (except the Nominating Committee Report and the Audited Financial reports) be accepted – Wade Zwicker/Mike Bartlett – unanimous – motion approved

MOTION: that Collins Barrow be appointed auditors for the fiscal year 2016 – Glenn Hewus/Peter Calcetas – unanimous – motion approved

MOTION: that the actions of the Officers and Directors of CSCE, since the last Annual General Meeting, be ratified – Peter Calcetas/John Newhook – unanimous – motion approved

7. Report of the Nominating Committee

Reg Andres, Past President and Chair of the Nominating Committee, presented the Nominating Committee Report as provided in the 2015-2016 Annual Report. He advised the members of 2 revisions to that Report, as follows:

- 7.1 Michel Khouday replaces Jean-Luc Martel as Quebec Region Vice President
- 7.2 Ashraf El Damatty will stay on as Board Member at Large, representing Heads and Chairs of Civil Engineering Departments

8. Other business

All returning and in-coming members of the Board of Directors were asked to stand and be acknowledged.

There was no other business

9. Adjournment

MOTION: that the 2016 Annual General Meeting of the Canadian Society for Civil Engineering be adjourned – John Newhook – unanimous – motion passed.

President's Report

Being a part of the Sustainability Conversation

My year as President has flown by and I have gained a deeper appreciation for the depth and breadth of work undertaken by the CSCE as well as its members. I hope that I have been able to contribute as much to the CSCE as I have been able to learn from my involvement with the Society.

The Society remains focused on its Vision 2020 strategy:

- 1) Enhanced Services for Members
- 2) Growing with Youth
- 3) Leadership in Sustainable Infrastructure

This past year's activities has been centered on communication – with CSCE members, our corporate partners, as well as other civil engineering stakeholders such as the Canadian Construction Association, the Canadian Network of Asset Managers, and ACEC Canada, and others.

Some of the highlights from this past year's activities include:

Release of the 2016 Canadian Infrastructure Report Card –

This report card is the second report card that has been issued, the first being in 2012. The number of participants and quality of information have increased significantly from the first report. This is a reflection of how well received the first report was, and the level of interest in the report card initiative. Clearly there is a need for this information presented in the report, and demonstrates quantitatively how critical the need for sustainable infrastructure is for Canada. This ongoing success is a tribute to the many years of leadership provided by the CSCE to see this initiative thrive.

A new CSCE Communications Application for computers and mobile devices –

This exciting new initiative is being led by Susan Tighe, this past year's CSCE President-Elect. The objective of this app is to provide members and everyone interested in civil engineering, a place to access all CSCE member services as well as facilitate communication and information related to civil engineering. We look forward to announcing developments on this initiative during the coming year.

Technical Division Newsletters to interested Members –

This initiative has been led by Gopal Achari, VP Technical Divisions and Committees. Each technical division has been tasked with producing informal, quarterly updates to CSCE members who have expressed an interest in their particular field of engineering. I believe that this communication will encourage CSCE members in the private sector to engage with the CSCE and raise the profile of the CSCE technical divisions with our members and all civil engineering stakeholders. I hope we can maintain and further develop this communication between all our committees and our members.

Webinars and Continuing Professional Development – I am very pleased to announce that the CSCE has started developing webinar content! Our first “mini-series” of webinars has recently been posted on the CSCE website and CSCE YouTube channel. We are very fortunate to have produced three keynote presentations from the 2016 Annual Conference in London as well as this year's John Adjeleian presentation at Carleton University. In addition, we are very fortunate that we were able to produce last year's Canadian Infrastructure Report Card Tour as a webinar and as presented by Guy Felio. We will continue to develop this content and platforms for delivering this content as our experience grows.

A Sustainable Infrastructure Rating System for Canada –

The CSCE continues to highlight the need for a rating system in Canada. Throughout this past year, I have consistently received encouragement from everyone I speak with that this issue is important to them. As such, the CSCE continues to work with its partners to raise this issue at the federal level with Infrastructure Canada. The CSCE is also reviewing in detail the Envision rating system that has been developed in the United States by the Institute for Sustainable Infrastructure. An updated version of this system is scheduled to be released later this year which will address some of the acknowledged shortcomings of the current version. We are looking forward to reviewing this update!

Be seen, be heard, be relevant (Reg Andres, 2014-15) –

The vision of the CSCE remains as true today as it did years ago. As a learned society, it is critical to maintain our “brand” as being impartial and objective. This presents us with an opportunity to embrace a critical role in the sustainability conversation – to INFORM. In an evolving and global communication landscape which now includes “alternative facts”, the CSCE is in a unique position to present information accurately and credibly to the general public and other civil engineering stakeholders. In the interests of building sustainable Canadian communities, we must continue to play this role as part of the sustainability conversation.

I have been fortunate to work with many accomplished, Canadian civil engineering leaders over my many years of involvement with the CSCE and especially during my year as CSCE President. I look forward to continuing the conversation in the coming year under the leadership of Susan Tighe, and I am confident that the upcoming generations of civil engineering leaders will be more than capable of taking our profession to even higher levels of achievement.

I look forward to seeing everyone at upcoming CSCE events!

Jim Gilliland, MCSCE
CSCE President 2016-2017.

Report of the Senior Vice President

The activities to “be seen, be heard and be relevant” in prompting the strategic initiatives and values of the Society are the key leadership objectives of the Regional Vice Presidents (RVP). Their individual reports are included below and serve to acknowledge their commitment to strengthening our membership, sections, committees and the interactions and communication between them. To this end, our individual attitudes and commitment to our profession and the field of civil engineering must continue to have purpose and focus. It is important therefore that civil engineers be seen by the public in the same context as other professions, such as medicine and the law, as protecting the public’s health, safety, quality of life and prosperity. That the challenges of sustainable development and climate change have for the last eight years, been an integral element and key constituent of CSCE’s strategic direction.

Going forward, RVPs need to continue to communicate the CSCE’s progress with partners and governments on strategic initiatives and programs such as Envision, the state of our infrastructure, innovation and the planning and implementing of new technology to reduce energy consumption and environmental impacts. The feedback received from sections must intern be communicated by the RVP to the SVP and national office, such that the necessary tools, training (LLL) and budgets can be arranged for these initiatives and programs to succeed. In general most of the regions and sections (nationally and internationally) continue to be active and engaged. We must all do our part on focusing our efforts on membership growth, communication, and recognition of our fellow colleague’s accomplishments through the Society’s Honours and Awards program. I wish to thank all the RVPs for their work and efforts this past year in promoting our great organization, as well as Susan Tighe P.Eng., Tony Begin P.Eng, and Doug Salloum P.Eng. for their support subsequent to my surprise appointment following Darrel Danyluk P.Eng withdrawal for medical reasons. Mr. Danyluk’s past contributions to the Society are greatly appreciated.

Senior Vice President,
Glenn W. Hewus, PEng, MCSCE

Atlantic Region

The Atlantic Region comprises four Sections, including Eastern New Brunswick and Prince Edward Island, Newfoundland and Labrador, Nova Scotia and Western New Brunswick. The Atlantic Region Council is made up of the Atlantic Region VP, Past VP, Region Treasurer and the chairs of the four Atlantic Region Sections.

The **Eastern New Brunswick and Prince Edward Island Section** has experienced one of the most active years in history, hosting and participating in many events, conferences and courses. Activities have mainly focused on increasing the value of the CSCE membership and offering interesting opportunities for students and young professionals. The executive section consists of Samuel Richard (Chair), Jérémie Aubé (Vice-Chair & Young Professional), Gérard Poitras (Past-Chair), Shawn Arsenault (Treasurer), Gilles Hébert (Secretary), Hélène Thériault (Director), Sherry Sparks (Director), Serge Desjardins (Student Advisor) and Hamza Abdel Aziz (Student Rep.). The Section has made a great effort in order to increase student participation and memberships. At the beginning of the University calendar, the executive members hosted a presentation / recruitment session for engineering students from l’Université de Moncton. Throughout the year, the Section held many student activities such as the first edition of Fellow’s Night; Malcom Dunfield (FCSCE) presented to CSCE members and students highlighting his career, volunteer work and accomplishments as a civil engineer. During the engineering student body’s (AEEGUM) Wine and Cheese, the Section organized a kiosk and participated to an evening of networking between students and professionals. The annual Job Shadowing event, which drew a large number of participants, had the highest attendance to date. During the year, there were a number of other activities offered to CSCE members. The Wood Design Conference by Sylvain Ménard was a collaboration with the Engineering Faculty at l’Université de Moncton. The section also hosted the National Lecture Tour and the CHBDC Course which were very successful events. At the end of the year, CSCE members had the opportunity to visit the Moncton Downtown Center construction

site. A second visit of the site for student members has already been planned for the beginning of 2017.

The **Newfoundland and Labrador (NL) Section** is chaired by Bing Chen. During this past year, the NL Section made continuous efforts in growing local membership, raising the profile of the society, and hosting NTL, PD workshops, and local seminars. The Section continued to support and cultivate young civil engineers and students through sponsoring diverse events such as civil nights, iron ring ceremony and student seminars, and offering four scholarships and awards (CSCE Convocation Award, CSCE Prize for Best Projects, Tiller Engineering/CSCE NL Section scholarship, and Ann (Mooney) Bridger-Dillion Consulting/CSCE NL Section scholarship). With the Section’s guidance, the CSCE Student Chapter at Memorial University kept growing and being active. Two CSCE fellows and former Section executive committee members, Leonard Lye and Rick Tiller, were selected to the Fellowship of Engineering Institute of Canada (EIC) in 2016 for their exceptional contributions to engineering in Canada. In addition, the Section continued good relationships with other professional societies (or their local chapters), such as CGS, PEGNL, NL NEIA, and CAWQ, especially in sharing information and resources such as seminars.

The **Nova Scotia Section** is chaired by Haibo Niu. The Section is continuing to re-build and has good support from those that formed the local organizing committee from the 2014 Annual Conference. The Section is working with the Dalhousie University Student Chapter with the support of Section YP Representative Chris Davis to create synergies between the Section and Chapter and enhance the benefits to younger members. The Section hosted both the National Lecture on Canadian Infrastructure Report Card and a course on the CSA-S6 Canadian Highway Bridge Design Code 2014 edition. These events provided an opportunity to grow the Section and further support all CSCE members at the local level.

The **Western New Brunswick Section** has made significant strides the past eight months to revamp the Section. The Section is formed of five industry professionals, one post-doc-

torate and one former National President including: Brandon Searle (Chair); Ted Moffat (Vice-Chair); Lucas Storey (Secretary); Alyson Dean (Treasurer); Michael Benson (Young Professionals); Nikole Watson (Industry Mentor); Coady Cameron (Social); and Lloyd Waugh (Advisor). During the past year, the section has been busy enhancing the YP components of local activities. The section has hosted technical talks, which connect the local engineering community through a series of presentations by industry practitioners on current projects or professional development topics. The Section also hosted a Fellows Recognition Dinner in order to celebrate the important contribution each local CSCE Fellow has made to the Civil Engineering field – which was well attended and brought together CSCE Fellows, YP's, students and the public. The Section is currently working on planning YP events for the 2018 CSCE National Conference in Fredericton. In addition to the Sections' events, the Section actively supports the local Canadian Geotechnical Society (CGS), the Canadian Institute of Mining New Brunswick (CIM), and the CSCE UNB Student Chapter. Activities include the CGS Cross Canada Lecture Tour, the annual Student-Professional Networking and Professional Development Dinner, which allow students to network with local engineers.

Vice-President Atlantic Region,
Jeff Rankin, MCSCE

Quebec Region

In the last years, a lot was done in Quebec Region, in terms of activity and growth of the strength and dedication of our members. As last year, a main goal was to strengthen the links between the different sections. This was accomplished through many methods. We did a couple of meeting with different sections to share the best idea and did some brainstorming. The region ensured a constant communication between the sections' chairs. The presence of members of the section in the national meeting held last summer was noticed. During that National meeting, the members of section from Quebec Region did a great presentation about their new connected region website. Also during the years, sections continue to share between them

their knowledge and great practice. A united meeting from all sections in Quebec Region was also held in December in Quebec City. Finally, a workshop will be held in Montreal in the next week to centralize all the information, to share our new idea for the current years and continue to develop our network for CSCE in Quebec Region.

Quebec Section

The current chair of the Quebec Section is Mr. Kim Lajoie, helped by his team of administrators coming from engineering firms, Quebec Ministry of Transportation, structure manufacturers and Laval University.

One of the greatest activity in all Quebec Region consist of the big lobster dinner that happen every year in Quebec City organized by Quebec section. A lot of different stakeholders participated to this dinner and it bring really great visibility to CSCE and it is also really popular along the community. The dinner is hosted in a restaurant located in a 350-year-old building in the Old Quebec. Around one hundred persons attend this event every year. It is a very good activity to strengthen the relationships between CSCE members and to thank all supporting companies and organizations that provide financial support to the section.

Also like last years, the Laval University CSCE student chapter is also active on the executive committee, to maintain a strong link with civil engineering students. The committee have organized a number of presentations about different topics of civil engineering.

Montreal Section

The year was marked by changes in the Executive Committee. First, the administrators Richard Arseneault, Éric Lachance Tremblay, Philippe Gatien and Sébastien Drainville withdrew from the committee. Consequently, Frédéric Brunet was appointed president of the section, relaying to Jean-Luc Martel who now occupies the post of secretary. Finally, Alexandre Boissonneault was appointed treasurer. In addition, the other functions have been replaced by administrators, which simplifies the administrative structure.

This year, seven events were held, including the Career Forum, all of which were successful. Indeed, we found that the number of people present is constantly increasing, demonstrating

a marked interest on the part of professionals and students. In order to continue recruiting new students, we maintain a constant presence with the four student chapters of the students. McGill, Concordia, ÉTS and Polytechnique universities.

Sherbrooke Section

The last year was similar to the year before for the Sherbrooke section, it continue to grow. The Sherbrooke Student Chapter is among the most active in the Quebec Region. It was concluded that the best way to relaunch this section was to combine efforts with the student chapter. Therefore, Mr. Alexandre Beaulne, Jean-Francois Poulin and Jean-Gabriel Lebel are now acting as both the section's and student chapter's chair. With this new formula, all professional members were invited to assist the student chapter's events.

During the 2016-2017 season, an impressive number of activities were organized by Sherbrooke, like their famous wine and cheese. Also, technical conferences were organized for students and professional members. This sheer amount of activity shows that the section is now in good health.

Sherbrooke Section will continue with some of their goals that they fixed a years ago which they managed to achieve partially:

1. To organize a major event each semester ;
2. To strengthen their ties with their sponsors ;
3. To increase the number of student members.

Vice-President Quebec Region,
Michel Khouday, MCSCE

Ontario Region

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**, chaired by Adrian Munteanu (acting), has four 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 2016, the section organized several events for its members and provided support to the local student chapters. The section organized the National Lecture Tour / National Infrastructure Report Card in Ottawa and participated as judges and granted CSCE Prizes at the University of Ottawa Graduate Student Poster Competition and also in the university Student Achievements Celebration. The Section got also involved with the CSCE History Committee to work together on a Canadian civil engineering history exhibition in Ottawa during the Canada 150 year anniversary, next year.

The CSCE Student Chapter at Carleton University had a very successful year organizing and coordinating with other societies, from speaker night and guest lecturer events, to meet and greet gathering, to engineering competitions and tours, to many other fun activities like Canal Skate, Crush Cancer Patches fundraiser, ski trips etc. Definitely a great year for the CSCE Student Chapter at CarletonU!

The CSCE Student Chapter at University of Ottawa also had a very successful year organizing tons of events from speaker nights, job workshops, and interesting presentations: Emerging Green Builders in Ottawa Region, Canada's Energy Citizens, LeBreton Development to fun activities such as Bridge Competitions and Absolute Comedy.

The **Durham-Northumberland Section** serves a large geographic area from east of Toronto to Kingston and is chaired by Robbie Larocque. The section is dormant and we are continuing to work for recruiting new members to assist in coordinating the Section's activities. James Garland organized the National Lecture Tour / National Infrastructure Report Card presentation last year in Durham.

The **Toronto Section**, serving the largest

number of CSCE members in the province, has had a good year in 2016 under the leadership of Nigel Parker. The Section operates with a team of 12 executive members that works on delivering lectures, social events and professional development activities.

The Section organized this year lecture & dinner activity – The Ups and Downs of Designing Amusement Park Rides and Attractions, and the CSCE National Lecture Tour / National Infrastructure Report Card presentation in Toronto. The Section is also closely affiliated with two CSCE Student Chapters at Ryerson University and the University of Toronto. The Section also provided support to the student chapters and this year, both universities organized interesting activities. The Toronto Section maintains an active internet and social media presence to communicate news of events and activities to members (www.csce-toronto.ca).

The CSCE Student Chapter at Ryerson University had again, a very successful year 2016 organizing and getting involved in tons of events and fun activities from movie nights, meet and greet to engineering workshops, speaker night and competitions – i.e. Timberfever / Design-build challenge, Linked In photo session, Alumni Speaker Night. A very good year for the Student Chapter at Ryerson University!

The **Hamilton-Niagara Section** serves a very large area with a population of approximately one million people. No events were organized during 2016. 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 2016 the National Lecture Tour / National Infrastructure Report Card presentation in Thunder Bay.

The **London and District Section** is a joint CSCE-CGS (Canadian Geotechnical Society) Section with a representation of professionals, professors and students on a sixteen-member team Executive. The Section had very successful year in 2016 under the leadership of Trisha Wilbur and Stephanie Dalo whom took over from Trisha in 2016.

The Section supports the WSCE (Western Society for Civil Engineering), which is the CSCE Student Chapter at Western University, through support of a number of student clubs and activities including the annual Western Engineering Concrete Canoe Association (WECCA), and Western Engineering Toboggan Team (WETT). This year the 2016 Great Northern Concrete Toboggan Race (GNCTR) was hosted by the University of Ottawa and Western University was the overall champion! The Section hosted, as usual, 6 dinner presentations in 2016, including the CSCE National Lecture Tour / National Infrastructure Report Card presentation in London, Achieving Long Life Pavement through Better Design, Assessment of Stormwater Management Performance of Green Roofs. The Section also put in additional effort to help the WSCE organizing Industry Spotlight events and an interesting competition launch by the London section regarding a strategy to increase CSCE associate membership.

In addition, the CSCE Annual Conference for 2016 was held in London, and it was a very successful conference. The Local Organizing Committee, under the leadership of Mike Bartlett, worked very hard to put together this conference, packed with interesting technical papers, historic tours, enjoyable social events and over 600 participants. Congratulations to Mike and his team!

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.

Vice-President Ontario Region,
Adrian Munteanu, P.Eng., MCSCE

Prairie Region

The Prairie Region includes the provinces of Manitoba and Saskatchewan. The Region comprises three Sections, Manitoba, South Saskatchewan and Saskatoon.

South Saskatchewan Section

The Section, chaired by Harold Retzlaff, has been moderately active. The Section hosted

several technical lunch presentations, including a series on the Regina Bypass P3 Project. The Section also hosted the NLT, Canada's Infrastructure Report Card.

The Section was pleased to support the establishment of a Student Chapter at the University of Regina. The Student Chapter hosted several events, including a Career Night with presentations from some Young Professionals

Saskatoon Section

The Section, chaired by Ehren Gadzella, had another busy year in 2016. The Section has been working on maintaining events that have traditionally been successful, while trying new events that may appeal to different demographics within the local membership. The Nooner Luncheon series continues to be the corner stone of the section's programming, and there was an increase in the overall event attendance this year. Last year was the first time the section piloted a Fall Supper, which is an event that celebrates the long-term section members with an evening of socializing and recognition of the achievements of a member of the local community. The event was held for the second time this year, and the section executive were overjoyed with the feedback from those in attendance. They look forward to making this an annual event, and hope to continue to see growth in interest.

The affiliate student chapter has been very active this year, and everyone enjoyed working with them to make the Annual Popsicle Stick Bridge Competition a success. There were an almost even number of student and professional teams join, and healthy competition with some tasty appetizers lead to a great networking opportunity.

Manitoba Section

The Section, chaired by Tricia Stadnyk, is still in a rebuilding phase. In December 2016, the Manitoba section hosted a breakfast presentation. Remi Adedapo and Robert Cuthbertson-Black from the City of Winnipeg presented on the upgrades to the North End Sewage Treatment Plant in Winnipeg, MB. The project was a \$795 million CDN undertaking and is anticipated to be the largest infrastructure project in Winnipeg's history.

Vice-President Prairies Region,
Mike Hnatiuk, P. Eng., MCSCE

Western Region

Calgary: Kristoffer Karvinen
Edmonton: Mark Scanlon
Vancouver: Graham Walker
Vancouver Islands: Jonathan Reiter

The 2017 CSCE conference in Vancouver will mark the completion of my two terms as Vice President for the Western Region. During the 4 years, I have had the opportunity to visit the sections and see how the sections have embraced the strategic directions and incorporated them in developing programs, engaging professionals and students and growing the young professionals.

2016 Highlights and 2017 Outlook

Calgary

The Calgary Section has had an exciting past year putting on several mixers, site visits, and hosting presentations. The highlight presentation was a speaker from Parks Canada who provided perspective on how infrastructure in our public parks is very different than urban infrastructure. The annual popsicle stick bridge competition is one that engages students and has gained significant interest from several post-secondary institutions. The 2017-2018 season focuses on streamlining communications, and using social media to reach a wider audience, and thereby attracting more members.

Edmonton

If there is one thing, that this section is not short on, it's the number of events that they put on in a given year ranging from dinner meeting presentations, young professional events, sponsor mixers and contests that involve both the students and the industry. With the great support that they get from the industry, the Edmonton section agreeably might be considered one of the stronger sections. Sustainable projects around recycling transportation infrastructure, building great neighbourhoods, and the Fort McMurray fires develop a strong program, while events like the curling funspiel, technical tours, billiard tournaments and BBQ mixers help draw the young professionals. The outlook looks bright and only aims to challenge the norm for this section.

Victoria/Vancouver Islands

Historically, this section has always linked

their occasional dinner meeting programs with other organizations and have had a dependence on the National Lecture Tours. The sections plans to initiate several technical presentations for members, with local interest topics including a potential topic on "Sustainable Cities". With a new Young Professional executive on board as well, the section, hopes to further enhance the connection with the UVic Student chapter and provide the ongoing support to the student chapter.

Vancouver

The section presented four technical presentations with the highlight being the Envision project presented by Stantec. The Student chapters have been the bright spot for the section with the BCIT chapters being awarded the best chapter at the CSCE 2016 London Conference. The section is looking forward to providing better services to the members through providing reduced rates for events, enhanced collaboration between student chapters and young professionals through joint social events and a infrastructure funding debate.

The preparations for the CSCE 2017 Vancouver conference are in full swing. Every effort is being put towards making this one of the largest conferences that the CSCE has ever done. This will also be the first conference that will be spearheading a new conference model that is primarily hosted through the national office with support locally. The conference also unique in the sense that the Vancouver and Victoria sections come together as hosts with support from the Western Region.

I look forward to being part of this conference and excited to see the conference help springboard the two sections in British Columbia to fully develop themselves as sections with a full fledged program and have the industry support.

These are exciting times for the CSCE and in particular the Western Region. There is a lot happening as we establish the CSCE to play a more significant role as influencers in establishing ourselves as Leaders in Sustainable Infrastructure.

Pictures/News:

<https://www.facebook.com/CSCEEdmonton?fref=ts>
<https://www.facebook.com>

Vice President Western Region:

Dinu Philip Alex

Treasurer: **Rishi Gupta**

Young Professionals Committee

The mandate of the Young Professionals (YP) Committee is to provide services and programming for the Society's younger members or those who are new to the profession.

In its sixth year, the committee focused its efforts on raising awareness and fulfilling its mandate. The "Young Professionals' Corner" column in CIVIL magazine continued to spread the word about Young Professional programming and events across the country.

This year, the committee continued to grow by establishing and maintaining YP representative positions throughout the local section executive committees. Within the last year, YP representatives within the local sections have hosted many successful events, created YP targeted programming, and facilitated networking and career growth opportunities. The local YP representatives continue to serve the regional needs of YP members and are the backbone of the committee.

The committee's succession planning has been implemented and is helping ensure long term success and growth. The committee continues to connect through bi-monthly conference calls. Additionally, regional conference calls have helped establish clear medium- and long-term goals for the YP representatives across the nation.

Through the hard work of Connell Miller, the YP Conference Coordinator, the committee hosted another successful YP supplement program at last year's conference in London. This year, the committee welcomes a new YP Conference Coordinator, Stanley Chan. Through Stanley's hard work, the conference in Vancouver has an exciting schedule of workshops, competitions and social events tailored to Young Professionals.

Guided by the Strategic Directions of the Society, the committee is working towards two broad-based goals: increase the number of local YP events (enhanced member services) and bridge the gap between student members and associate members (grow with youth).

The YP Committee is here to serve you, its

younger members. Let us know if you have any suggestions and/or want to get involved. You have a voice!

Please do not hesitate to contact myself, bernard.moulins@enercon.de, or your local YP representative, <https://csce.ca/committees/young-professionals/>.

Chair Young Professionals Committee,
Bernard Moulins

Student Affairs Committee

One of CSCE's three Strategic Direction is 'Growing with the Youth'. The Student Affairs Committee has, in the past few years, supported this strategic initiative by developing new programs and benefits to support students and help stimulate early professional consciousness. In 2015, the committee recorded some 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 local Sections. Through the committee's initiatives, our students now, more than ever, feel a real sense of belonging to the Society. The committee strengthened the following key areas:

- **Communication with Student Chapters** – The Committee maintained and strengthened communication with Student Chapters. Email communication as well as the use of social media (eg. Facebook and Twitter) were used throughout the year for exchanges with Student Chapters and between Chapter leaders. The Student Affairs website was also constantly updated. This injected new enthusiasm in Chapter participation in our programs and initiatives.
- **Student Membership** – Following the approval of the CSCE Board, the Committee rolled out the free student membership fee in September 2015. To this effect, student members now receive only the digital version of the Canadian Civil Engineer magazine. The committee updated and improved the process of the online student membership registration.
- **Resource Support** – The Committee provided individual Student Chapters with CSCE 'SWAG' packages (pens, rulers, stickers, highlighters) to help with school year kick-off and membership drive events. The effect of this resource support will be

evaluated when the 2015/2016 Chapter Annual Reports are submitted.

- **Student Competitions** - Student competitions are a great way for students to challenge themselves and apply their knowledge to projects outside the classroom. Student Affairs was proud to continue to provide support to the various student competitions around the country which provide opportunities to suit different interests and ambitions.
- **Chapter Annual Report** – 24 Student Chapters submitted annual reports for the 2014/2015 school year, which were evaluated by the Committee. The Reports served as the basis for the President's Award for Outstanding Student Chapter, won by the University of British Columbia, Vancouver. The Annual Reports also served as an aid to assess the effectiveness of Student Affairs programs.
- **Student Chapter Leaders Workshop** - The Committee held the third Student Chapter Leaders Workshop at the annual conference in Regina. 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 Student Affairs.
- **National CAPSTONE Design Competition** – The Committee held the student CAPSTONE Design competition in Regina. 14 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**

International Report of the VP International

Brian C. Burrell

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 also is 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,
- 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.

As VP International, I attended the CSCE Hong Kong Branch's annual dinner held on October 28, 2016 at the Royal Plaza Hotel, Kowloon. I gave some remarks about the CSCE, mentioning the forthcoming CSCE 2017 annual conference in Vancouver.

An informal meeting was held on October 29, 2016 at the Royal Pacific hotel with key members of the CSCE Branch Executive, Kelvin Cheung (Chair), TC Kan (Hon Secretary), George Cheng (Student Affairs Committee Chair) and Brian Wong (Industry and Publicity Committee Chair). The meeting was a forthright discussion on the relationship between the CSCE–Canada and the CSCE Hong Kong Branch, and possible future collaborative efforts.

As VP International, I have advocated greater

transfer of information from other countries on foreign research, projects, professional practice, and opportunities back to CSCE members in Canada. The International Affairs Committee has responded with continuation of its series on lessons from foreign countries / regions. In addition, I have been involved with efforts to keep CSCE members aware of China's One Belt One Road initiative. With Doug Salloum, Lloyd Waugh, and Bing Chen I prepared an article on the subject for the Winter 2017 issue of CIVIL magazine. I also encouraged key members of IAC to investigate the possibility of joint conferences with Chinese engineering societies on the One Belt, One Road concept, and I am pleased that progress has been made in this regard.

In 2016, I also worked on several documents including the 2015 annual report of the international region, proposals for new IAC activities, an action list of items to enhance CSCE's international activities, a strategic plan for the CSCE's international activities, and a 2017 work plan and budget request. I served as guest 'technical' editor of the CIVIL Winter 2017 issue on the theme 'Lessons from Asia'. I attended and participated in the November 3rd Board Workshop, of which an hour was devoted to a discussion of the CSCE's international activities. I also managed the CSCE International LinkedIn Group. In summary, 2016 was a busy year for me as VP international.

During 2017, I intend to consider potential CSCE participation in multi-lateral compared to bilateral relationships, to propose and advocate for increased membership services for CSCE's international members (both individuals and Institutional Members International), and to continue discussions with the CSCE Hong Kong Branch. More information can be found in the VP International 2017 Work Plan.

Report of the CSCE International Affairs Committee

1. Committee Overview

The CSCE's International Affairs Committee is chaired by Dr. Rishi Gupta, and current has 15 active members (plus one pro forma member). 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 to reflect the active members by Rishi Gupta with support from Lois Arkwright in the National office.

The IAC is generally mandated to plan and carry-out CSCE's international activities and to undertake its international development projects. IAC interacts with foreign organizations to foster relations that will lead to joint meetings, conferences, other professional events and work projects for CSCE members and foreign organizations or clientele. IAC's mandate extends to promoting CSCE in foreign countries. It is responsible for development, implementation, and promotion of agreements of cooperation with foreign and international engineering bodies. IAC assists other arms of the CSCE with respect to hosting and protocol associated with visiting foreign delegates from engineering societies. IAC's mandate, however, excludes the operations of foreign branches of the CSCE (e.g., the Hong Kong Branch) and international / foreign conference sponsorship handled directly by Technical Divisions or the national office.

2. 2016 Activities

INDIA:

Rishi Gupta (CSCE Liaison Officer for India) visited India during January-February 2016 and made several presentations in Vadodara, Ahmedabad, Gandhinagar, and Chennai, during which he mentioned the CSCE.

IAC members congratulated IAC Member Mir Ali for receiving the NRI Bharat Samman Award in 2016. The award is conferred to select persons of Indian Origin living in India and abroad for their outstanding achievements in the chosen field of activities.

IRAN:

Sadegh Kazemi (IAC Secretary & Liaison Officer for Iran) reported on a series of related presentations- Dr. Khaled Sennah (Ryerson University). Efforts to recruit Institutional Members International in Iran is continuing.

CHINA:

Lloyd Waugh (former CSCE President),

Brian Burrell (VP International), and Bing Chen (CSCE's Liaison Officer for the China Civil Engineering Society (CCES)) attended the 'The Belt and Road' International Forum of Civil Engineering, November 19 and 20, 2015, Beijing, China. As VP International, Brian Burrell signed on behalf of the CSCE the "International Civil Engineering Science and Technology Development and Cooperation Alliance Establishment Protocol" (notice placed subsequently in a CSCE E-Bulletin). Since then, Bing Chen had discussions (ongoing) with CCES officials about cooperation on future events including the possibility of a joint conference with the CCES on the 'The Belt and Road'. In addition, the possibility of joint activities concerning the 'One Belt One Road' initiative was discussed with other organizations (see the report of the VP Global Partnerships).

On March 28, 2016, an MOU was signed between the CSCE and the BNU (Beijing Normal University) when the Chancellor of BNU visited CSCE in Montreal. BNU is ranked one of the best universities in China. Andrew Liu (CSCE Liaison Officer for China Highway and Transportation Society (CHTS)) was involved with discussions and organizing activities concerning the CSCE-CHTS co-organized 3rd Canada-China International Symposium on Winter Road Maintenance held at the University of Waterloo, Waterloo, Ontario from June 4 to 5, 2016. Initiated by CSCE's Transportation Division with IAC support, symposium attendees included from 20 participants from China (senior officials and engineers), and staff from MTO, the Region of Waterloo and the winter maintenance industry (GIS, weather service, equipment, and materials).

CSCE signed a MOU with Wuhan University of Technology in 2009 to collaborate on organizing a series of International Conference on Transportation Information and Safety (ICTIS) conferences. Since then, CSCE Transportation Division and IAC have been working together with Wuhan University of Technology in organizing the conferences. CSCE has sponsored three ICTIS conferences in Wuhan, China (in 2011, 2013, and 2015). CSCE's contributions include as a part of the conference academic committee, keynote and invited speakers, paper review, session chairs, special issue of journal publications, and CSCE congratulatory letters. Andrew Liu sent congratulatory letters with respect to ICTIS 2015. ICTIS 2017 will be held August 8-10,

2017, in Banff, Alberta.

On October 25, 2016, Brian Burrell (CSCE Liaison Officer for Hong Kong, Macau and the Philippines) met with Mrs. Monica Yuen, Chief Executive and Secretary, and Ms. Eli Mock, Conference Coordinator, of the Hong Kong Institution of Engineers (HKIE) at the HKIE offices in Causeway Bay, Hong Kong. Accompanying him were three members of the CSCE Hong Kong Branch. The purpose of the meeting was to renew ties and initiate discussion about possible future activities between CSCE-Canada and the HKIE. We were reminded that under the CSCE-HKIE agreement of cooperation, members of the HKIE can attend CSCE events, and vice versa. It was also stated in the agreement of cooperation that the CSCE will publicize HKIE events and that HKIE will publicize CSCE events. It was agreed to send HKIE information on the CSCE 2017 Annual Conference in Vancouver, as well as the ICSI in Montreal and the CSCE-ASCE-ICE Triennial Conference. The exchange of technical information is also mentioned in the CSCE-HKIE agreement of cooperation; HKIE was thanked for their support with respect to articles for the Winter 2017 issue of CIVIL magazine.

Jeanne Huang (CSCE IAC Deputy Chair and Special Envoy to China) assisted several CSCE members during their stays in China. Ed McBean, FCSCE, was in Tianjin, Beijing and Shenzhen from Oct. 13 to 27, 2016. His trip was supported by the International Sustainable Infrastructure Conference, Oct. 17/18/19, in Shenzhen because Ed was a keynote speaker at the Conference. Ghani Razaqpur (CSCE Past President) was in Beijing and Tianjin from Oct. 14 to 22, 2016. The trip supported by an international blast conference in Beijing because Ghani will be a keynote speaker at the Conference in Beijing. Ron Droste (Past CSCE IAC chair) was in Tianjin and Beijing from Oct. 21 to 27, 2016 (trip supported by SCWE – Sino-Canada R&D Centre on Water and Environmental Safety). Todd Chan travelled to Beijing, Tianjin and Shenzhen (China) in October 14 to 28 (see the Report of the VP Global Partnerships).

Caribbean

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.

Administrative Items

IAC performs annually several organizational tasks including internal committee administration, and responding to foreign correspondence and inquiries. During 2016, the committee passed motions to support the move of IAC under VP International, to approve E-membership for foreign students, and to reinstate Todd Chan's membership in IAC. As IAC Chair, Rishi Gupta responded to an enquiry from Jordan Engineers Association and to an enquiry from Seawall Intercambio about hosting Brazilian engineers. He also communicated with the Canada Central Representative for the UK Institution of Civil Engineers (ICE). The committee also prepared its 2017 work plan and budget request, and arranged for invitations to the CSCE 2017 Annual Conference to be sent to their international contacts. Rishi Gupta, Brian Burrell, and Todd Chan attended the CSCE Board Workshop (Nov. 3) and Meeting (Nov. 4) in Montreal. (Van also attended part of the workshop).

IAC recommended CSCE be a non-financial supporter of the World Transport Convention (WTC) to be held in Beijing from June 4 to 6, 2017, and the SimHydro 2017 Conference to be held June 14-16, 2017 in Nice (France). (Support of the Hydrotechnical Division Council was sought for CSCE to become a non-financial supporter of the latter.) These non-financial sponsorships raise the international profile of the CSCE.

IAC has worked with National Office staff concerning several administrative items, including the new CSCE website layout and storage space for IAC working documents. Ron Droste's (IAC Member and Former Chair) added to the website a report on his trip in China, October 17 to 31, 2015, and a report on the Sino-American Technology and Engineering Conference (SATEC) held in Jinan, Shandong, China.

Outlook:

2017 will be busy year with several items to follow-up from 2016 and proposed new initiatives (Envoy Program, CIVIL Winter issue Lessons from the UK, tour for members of the Nigeria Society of Engineers). An enhanced effort will be made to intensify relations in the Americas and Northeast Asia.

Report of Todd Chan, CSCE VP – Global Partnerships and a CSCE IAC Member

During my stay in several cities in China, I had the opportunities to participate in a few meetings for the IAC during my visit to China, from Oct. 15 to 29, 2016. My trip was mainly supported financially by the Sino-Canada Joint R&D Center on Water and Environmental Safety (SCWE) based at Nankai University, Tianjin, China, with additional support from the CSCE International Affairs Committee (IAC). This brief report presents some key information about these meetings.

October 20, 2016 – Hong Kong. While I was in Shenzhen, China, I travelled by train to Kowloon, Hong Kong to hold a meeting with several senior leaders of Chuhai College of Higher Education. Chuhai civil engineering department is a CSCE Institutional Member International, IMI. (Note: Chuhai is one of the universities in Hong Kong that offer civil engineering and architectural engineering sciences in Hong Kong and it celebrates its 70th anniversary in Oct. 2016.) At the meeting, I met with the several top college officials. Knowing that the CSCE has contacts at many major universities in Canada, it was suggested that the CSCE might be able to promote short-term professor and student exchange activities for Chuhai with some universities in Canada. During the meeting, professors at the Chuhai civil engineering were invited to come to the CSCE Annual Conference in 2017 in Vancouver.

October 24, 2016 (morning) – Beijing, China: Four CSCE members (Ron Droste, Ed McBean, Jeanne Huang, and Todd Chan) had a meeting in Beijing, China with Mr. Gao Pengfei, the Deputy Director General (Acting Director General) of the China Association for International Exchange of Personnel (CAIEP, an important unit of the State Administration of Foreign Experts Affairs, China, SAFEA) and his senior staff. Mr. Gao is the senior CAIEP official who looks after the organization of the Sino-American Technology and Engineering Conference (SATEC) for SAFEA. The CSCE was one of the three foreign organizers for the 2016 SATEC and the “Sponge City” Workshop (one of the 6 workshops in the 2016 SATEC) was held in Jinan, China in May 2016. One purpose of our meeting was to report on follow-up action to the SATEC 2016.

The organization of a Chinese government delegation visit to Canada in 2017 to study the Canadian techniques and policies for building “sponge cities”, a recommendations presented to Vice-Premier Ma Kai in May 2016 at the conclusion of the 2016 SATEC, was not feasible, as no Chinese government organization had been willing to lead organizing efforts. The trip may be considered for 2018. The second person of the meeting was to inform CAIEP that the CSCE is interested in co-organizing the 2018 SATEC.

October 24, 2016 (afternoon) – Beijing: Four CSCE members (Ed McBean, Ron Droste, Jeanne Huang and Todd Chan) had a meeting with professors of the Beijing Normal University (BNU). Cooperation between the CSCE and the BNU, and the feasibility of setting up joint degree programs and research programs between BNU and some top universities in Canada with the help of the CSCE was discussed. At the meeting, we extended our invitation to the BNU staff to attend the CSCE Annual Conference in Vancouver in 2017.

October 25, 2016 (Tuesday) – Tianjin: At a technical workshop with Nankai University professors during the day, Jeanne Huang and Todd Chan used the occasion to extend the CSCE invitation to several Nankai professors at the workshop to submit technical papers to the 2017 CSCE Annual Conference to be held in Vancouver. Some of the professors did show a great deal of interest in attending the 2017 CSCE Annual Conference.

October 28, 2016 (Friday morning) – Beijing: Jeanne Huang (IAC Deputy Chair) and Todd Chan paid a visit to the CHES (Chinese Hydraulic Engineering Society) and met with four senior CHES members. The following items were discussed:

(1) Jeanne and Todd asked CHES to promote the 2017 CSCE Annual Conference to be held in Vancouver and to encourage their members (institutional and individual) to participate and submit technical papers.

(2) As the result of the 2016 SATEC, about 10 senior officials from several conservation authorities (CAs) in the Greater Toronto Area will likely visit Beijing and other Chinese cities during May 2017 for technical exchanges with Chinese water resources experts on “Sponge City” practices. CHES said that they would be happy to make arrangements for technical visits for the Ontario delegates during their visit to China.

(3) In June 2018, an international conference on the theme of LID (low impact development that is related to “Sponge City”) will be held in Toronto. Secretary YU said they would be interested in participating in this international conference and would help promote it in China.

(4) Jeanne and Todd asked CHES to consider co-sponsoring this event in SATEC 2018, which the CSCE hopes to co-organize. (CHES gave CSCE a great deal of financial and personnel support in the 2014 SATEC water workshop held in Suzhou in May 2014)

(5) Other possibilities of doing CSCE/CHES joint technical activities (international conference/workshops etc.) were also discussed.

October 28, 2016 (afternoon) – Beijing: Jeanne Huang (CSCE Deputy Chair) and Todd met two members of the CCES International Cooperation Department at the CCES (China Civil Engineering Society) national office in Beijing. Items discussed included the following:

(1) CCES executives and members were invited to participate in the 2017 CSCE Annual Conference in Vancouver. CCES will probably send two executives to the CSCE Conference.

(2) Todd thanked the CCES for their great support to 3 CSCE participants at their Nov. 2015 CCES International Forum on “One-belt, One-Road”. Todd asked whether CCES would consider holding another “One-Belt, One-Road” forum/conference. It was suggested that perhaps the CSCE could join the CCES to co-organize this kind of conference.

(3) CCES and the HKIE (Hong Kong Institution of Engineers) have set up a program to allow young practising engineers (not more than 35) from Mainland China to work in Hong Kong for a few months to broaden their work experience (vice versa for Hong Kong engineers). It was suggested that a similar program could be set up between the CCES and the CSCE for Mainland Chinese engineers and Canadian engineers.

(5) As a follow-up action item from the 2016 SATEC workshop on “Sponge City”, it seems that CCES may be willing to organize the exchange visit to Canada. CCES might be in a position to undertake the organizational work in 2017 for a Chinese delegation to visit Canada in 2018.

(6) CCES agreed to consider a CSCE request that the CCES send a Chinese speaker to

Canada once a year to present lectures on some of the very best civil engineering projects completed in China.

(7) Other possibilities of organizing joint CCES/CSCE activities in the coming years were discussed.

Report of the CSCE Hong Kong Branch (CSCEHKB)

The CSCEHKB (<http://www.csce.org.hk/>) held several events during 2016, including a very successful Annual Dinner on October 28, 2016. The annual event attracted over 200 participants, including several key members of the civil engineering profession in Hong Kong.

The Hong Kong Branch will host a 2-day Conference in Hong Kong in June 2017 as one of our special events to celebrate the 150th Anniversary of Canadian Confederation. The Canadian Society for Civil Engineering is a supporting organization of the conference.

Concluding Remarks by the VP International IAC members were saddened by the news of the passing of Kirk Thomson, former IAC Chair and the CSCE's first VP international. His contributions to the IAC and the CSCE were many, and he will be missed by his many friends and former IAC colleagues.

In accordance with Kirk Thomson's vision, a collective effort will be continue to enhance the international activities of the CSCE and to increase the recognition of the importance of these activities to the CSCE. The many volunteers that work on behalf of the CSCE's international activities and programs are thanked for their efforts.

Report of the Honorary Treasurer

The year 2016 provided several challenges to the CSCE annual operating budget. Although the net earnings were positive as a result of a successful annual conference, the drive for increased memberships both individual and corporate did not meet the expectations of our marketing strategy. It did however provide a new foundation to attract and better serve the membership in the years to come. The consultant hired to create a more interactive website and administrative data base platform was unable to deliver both scope and content within the timetable provided by head office. The resolution of our information technology issues has been a priority of both head office staff and senior executives. The recent actions taken by them have been very successful and provide the confidence that a better and more effective platform will be fully integrated and operational by mid-2017.

During the year the Board approved funds to be transferred from the Second Century Fund for the purpose of funding the corporate marketing plan. A portion of the funds will be repaid over the next five years. Administrative expenses for head office are down and operations continue to be cost effective and efficient.

In fiscal year 2017 our commitment to leadership in sustainable infrastructure under Vision 2020 will be of prime importance to generate the interest and commitment of CSCE members and non-members. We must also continue to seek individuals from our membership who care enough about CSCE to volunteer some of their time to it, who are willing to work as part of a team and who show a keen interest in prompting and enhancing civil engineering. To this last point, consideration must be given to developing the educational framework (online webinars for example) on the governance of not for profit institutions. The educational framework to a large extent should target the pool of young engineering graduates and professionals. It is also suggested that the Lifelong learning and National Lecture tour programs be bolstered to create revenue and value to our membership.

The CSCE's financial statements by the firm Collins Barrow is appended to this annual report. The audit covers CSCE's fiscal year period of January 1st 2016 to December 31st 2016. The auditor found minor deficiencies in internal control which were mostly related to software and IT. Corrective measures are being implemented to the satisfaction of the auditor. It remains the responsibility of the Honorary Treasurer that the proposed new financial policy draft, addressing a prioritized allocation of revenues be finalized for approval by NMC and the Board.

In closing, the role of Honorary Treasurer will pass to a new CSCE member in 2017. I look forward to working with the new Honorary Treasurer and passing on my knowledge and experience of the past several years. I would like to thank the Executive Director, Head Office Staff and Collins Barrow for their support and assistance throughout my terms.

Glenn Hewus

Technical Publications Committee (TPC) Annual Report 2016

The goal of the CSCE Technical Publications Committee (TPC) is to improve the technical content and publications available to CSCE members as a membership benefit and is in line with Strategic Direction #1.

This past year, the committee wrote the CSCE Conference Publications Guidelines and prepared a draft policy on Member Publications. The purpose of the Guidelines is to provide guidance and support to all CSCE conference Technical Committees through the standardization of submission requirements and templates. This document will be reviewed and revised in the upcoming year based on input from the 2017 conferences. The purpose of the Policy is to define the responsibilities and describe the methods to be used by members wishing to promote their publications or other commercial activities. The term 'promote' refers to the CSCE furthering the progress of, supporting or actively encouraging member commercial activities.

The committee continues to work on a solution for indexing CSCE conference proceedings and is exploring options to consolidate all CSCE conference proceedings onto one site that will be searchable and accessible to all CSCE members.

Submitted by,

Linda Newton, Chair, TPC

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

Dear members:

2016 has been another successful year. During this year, we had a well attended annual general conference in London along with numerous speciality conferences. The cold regions division which had not been active for the past few years was again revived under the leadership of Matthew Follett. The vibrancy shown by different divisions and committees was noteworthy with some divisions (namely Structures) undergoing restructuring. The CSCE and its divisional websites were redone and now presents a new look! We expect to populate the website with more content in 2017. The Environmental Division voted to hold their speciality conferences every year going forward. The Engineering Management Division has decided it is going to champion a speciality conference every year. The details of each division's progress as provided by the Divisional Chairs are provided below. Overall, 2016 was a good year and I look forward to serving you all in 2017.

Gopal Achari

Vice President (PCC)

CSCE

Structures Division

Chair: Ashraf El Damatty

Restructuring of the division was carried out which started by developing the mission, vision, and short and long term goals of the division. The executive constituent of the division is as follows:

- Chair: Ashraf El Damatty
- Vice Chair: Khaled Galal
- ACM Committee: Amir Fam
- Buried Structures Committee: Hany Elnaggar
- Bridge Committee: Adel Zaki
- Concrete Structures: Shahria Alam
- Fire Behaviour and Safety of Structures: John Gales
- Industry Liaison: Ahmed Hamada
- Masonry Structures Committee: Khaled Galal
- Steel Structures Committee: Charles Anan

- Structural Dynamics: Girma Bitsuamlak
- Wood Structures Committee: Asif Iqbal

The division worked on the following strategic objectives during the past year:

- 1- Updating the division membership list
- 2- Establishing frequent communications between the executive members of the division
- 3- Recruiting new academics to join the division and its various committees
- 4- Increasing the involvement of the industry in the division
- 5- Ensuring that various committees of the division are active

This brief report summarizes the division activities undertaken to achieve the above goals and the reports prepared by the committee chairs.

Division membership update

- a. A survey was conducted to develop a data base for all academics in Canada specialized in structural engineering
- b. An email was circulated to the entire structural engineering academic committee in Canada inviting new academics to join the division and its various committees and asking past members to confirm their active participation in the division
- c. More than 40 professors responded confirming their active participation in the division and their desire to join various committees. A significant number of new academics joined the division for the first time. This list currently represents the active membership of the division
- d. A new committee for industrial representation was established during the latest CSCE conference in London. The committee contacted many companies involved in structural engineering activities. Positive responses were received with more than ten companies' representatives have shown interest in joining the committee. Those will represent a focus for an industry group that is expected to grow and will work with the academic members of the division to achieve a major goal, which is to increase interaction between academia and industry

Committees Reports

ACM Committee

The 7th International Conference on Advanced Composite Materials in Bridges and Structures (ACMBS) was successfully held in Vancouver, BC, Canada, August 22-24, 2016. This conference is an official CSCE conference managed primarily by the ACM committee. The conference was chaired by Raafat El-Hacha and was well attended. Many of the ACM committee members served on the International Scientific Committee of the ACMBS conference indicated above and have been reviewers for the papers.

A location and chair have been secured for the next 8th ACMBS conference in 2020, namely in Sherbrooke, QC and to be chaired by Brahim Benmokrane.

The four-year term of Amir Fam, current ACM committee chair would be complete this year. Dr. Fam started leading the transition by notifying the committee, requesting nominations for chair; 2 candidates were nominated, and then passed this information to the Structures Division and CSCE administration requesting that they independently manage the election which is currently undergoing.

Bridge Committee

The committee is working on the preparation of the 10th International conference for SMSB, 2018. The conference is organized by the CSCE, and Adel Zaki is the conference Chair. The conference will take place in Quebec City. Dr. Zaki will send an official call for abstracts to all bridge engineering community.

Buried Structures Committee

The committee is proposing to host a Special Issue on Buried Structures to be published in the Canadian Journal of Civil Engineering (CJCE). A proposal in this regard will be presented in June 2017 for approval.

Concrete Structures Committee

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

will be selected from the 6th International Conference on Engineering Mechanics and Materials, CSCE 2017, and invited for full paper submission. Invitation will be also sent to CSCE Structures group shortly after finalizing the number of papers from CSCE Conference 2017.

Recruiting of new members in the sub-committee is going on full swing. Many requests were received to join the committee, which will meet in Vancouver on Wednesday May 31st.

The committee is planning to organize a workshop in the next CSCE 2018 conference on "Performance based design of concrete structures considering strength, ductility and durability."

Fire Behaviour and Safety of Structures Committee

The committee was initiated at the latest CSCE conference in London 2016. The committee's goal is to expand the breadth of current Fire Safety Engineering activities in Canada and by doing that advance the state of structural engineering. The committee will meet this by initiating efforts to facilitate the growth of engineering industry and consultancy. The committee was engaged in a recruitment drive, submitted a white paper report (under review), and set out long term objectives to meet the committee's goal.

Industry Committee

Having established a focus group for this committee, a conference call will be arranged for the committee members before the 2017 CSCE conference to discuss how to increase the industry involvement in the division and how to improve the interaction between the academia and the industry

Masonry Structures Committee

Members of the committee participated in the first USA - Canada Workshop on "Masonry Research Across the Border" which was held on April 17 and 18, 2017 in Denver, Colorado. The overall goal of the Workshop was to foster collaboration between the USA and Canada in masonry research.

Members of the committee are heavily involved in the 13th Canadian Masonry Symposium, which will be held from June 4 to 7, 2017 in Halifax, Nova Scotia. The conference celebrates 41 years of Canadian and International masonry research cooperation and dissemination. The CMS is Canada's

eminent gathering for masonry related technical topics and fields of inquiry and attracts national and international experts on the design, construction, behaviour and performance of various masonry structures.

Wood Structures Committee

This committee was established in June 2016. Since that time, a number of members have joined the committee and the process to recruit additional members is still ongoing.

Work is ongoing to propose a special issue of CJCE on wood structures. The proposal will be formally submitted to the editor once sufficient number of contributors and papers have been identified and a timeline has been agreed upon.

Proposal for a special session on Wood Structures in the CSCE 2018 conference is currently under consideration. Further discussions with the organizers are planned.

Engineering Mechanics and Materials (EMM) Division

Chair: **Dan Palermo**

In 2016, the Engineering Mechanics and Materials (EMM) Division of CSCE participated in the organization of conferences and delivery of technical articles.

Conferences:

The Division's activities related to conferences included sponsoring and participating in the *5th International Engineering Materials Specialty Conference* (2016 CSCE Annual Conference), held in London, Canada, June 1-4, 2016. The division was also active in the planning of the *6th International Conference on Engineering Mechanics and Materials* (CSCE 2017), to be held in Vancouver, May 31-June 3, 2017. As part of this conference, the Division is organizing a panel discussion on "**Tall Wood Buildings - Are They Safe and Efficient**", 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. The EMM Division has also committed to sponsoring and participating in the *7th International Engineering Materials Specialty Conference* (2018 CSCE Annual Conference), to be held in Fredericton.

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.

Technical Publications:

The EMM Division served as the lead for the *winter 2015 (V32.3) edition of the Canadian Civil Engineer*. Shahria Alam, Vice-Chair of the EMM Division, edited this edition. The focus of the articles was, "High Performance Materials/Structural Systems for Sustainable Civil Infrastructure." Full details of this publication are provided in the table below:

Topic Canadian Civil Engineer

(Technical Editor: M. Shahria Alam)

Publication date Fall/2016 V33.4

Contributors

High Performance Materials/Structural Systems for Sustainable Civil Infrastructure:

1. Cross-laminated timber: a high performance sustainable building material (Md Shahnewaz, Thomas Tannert, and M. Shahria Alam)
2. High performance concrete composites with robust self-healing capability (M.A.A Sherir, K.M.A. Hossain, and M. Lachemi)
3. Advanced structural steel systems for enhanced seismic performance (Robert Tremblay)

Hydrotechnical Division

Chair: **Kerry Mazurek**

The CSCE Hydrotechnical Division is run by a Hydrotechnical Division Council that 10 CSCE Hydrotechnical Division members from across the council. The main activity of the Council for 2016-2017 was the preparations for the biannual Canadian Hydrotechnical Conference that will be held in Vancouver in conjunction with the CSCE Annual General Meeting in 2017. The Specialty Conference was chaired by Brian Hughes of Northwest Hydraulic Consultants Ltd., with support from Division members for review of submissions. Moving forward the Division plans to focus on efforts in providing support to local sections in providing Hydrotechnical content in its programming and to create an archive of previous publications and other activities to better promote CSCE and the quality of Division conferences.

Environmental Division

Chair: **Catherine Mulligan**

The division helped with the review and

organization process for the Vancouver Environmental Speciality Conference of this year. Over 40 papers will be presented at the conference. The chair is the chair of the Environmental Speciality Conference. That is currently underway. I have also agreed to co-chair the Environmental Speciality conference in New Brunswick for next year. In future years the environmental speciality conference will continue to be organized every year.

Cold Regions Division

Chair: **Matthew Follett**

As the Northern Territories begin entry into the warmer seasons, communities are graciously accepting hours of daylight and temperature increases above -30°C. The City of Iqaluit, for example, are celebrating with the Toonik Tyme Festival between April 13–22. Toonik Tyme marks the return to spring and does this by sharing and celebrating Inuit traditions. Activities, such as dog sledding, igloo building, and skiing, are enjoyed by both younger generations and elders. Many events finishing with warm tea, hot chocolate, and bannock.

The return to spring also signifies the beginnings of a short but busy construction season. Engineers and contractors are getting their ptarmigan in a row for the optimistic 4-month construction season. This planning includes finalizing designs, tendering services, and materials and equipment shipping/sea lift logistical coordination.

Parallel to these activities, the Cold Regions Engineering Division (CRED) has been working on several ventures, which are described below.

Iqaluit Airport Dedication

In January, the Government of Nunavut endorsed the nomination (see attached letter from John Hawkins, the airport director) of the Iqaluit airfield for a designation as a National Historic Civil Engineering Landmark through the Canadian Society for Civil Engineering.

This nomination went forward to the CSCE's National History Committee and was approved on February 28. The Iqaluit Airfield will now join the ranks of the White Pass and Yukon Railway, the Alaska Highway, the Town of Inuvik, Snare Hydro, and Dredge 4 as northern Historic Civil Engineering Landmarks dedicated by the CSCE.

These words, and the administrative and

application process for the dedication, were written and led Ken Johnson, M.A.Sc., RPP, P.Eng.. For this reason, CRED moved forward to recognize Ken for his contributions to northern engineering and history of the industry.

CSA Group Involvement

The (CSA) Group has requested support in the development of the first standard in the CSA Group Wastewater Treatment Plant (WWTP) Standards Program: S900.1, Climate Change Adaptation for Wastewater Treatment Plants. CRED Chair, Matt Follett, M.A.Sc., P.Eng., will be sitting on this committee and providing an arctic perspective on the effects of climate change on mechanical WWTPs. The first meeting is scheduled to commence on Monday, May 15, with attendees being placed as part of a Task Force or Technical Committee at this time. Topics will include:

- Review of proposed methodology, approach, and outline for S900.1 seed document, as well as climate data needs for development of the standard; and
- Review and endorse S900.1 project charter (scope, schedule, and expectations).

Recruitment of Writers

CRED is currently recruiting technical writers, engineers, and contractors to contribute northern project case studies. These case studies will be distributed electronically to CRED members and offers a chance to network and highlight projects happening around northern regions of Canadian Provinces and Territories. Submissions should be about 1-page in length and contain up to three photos. In-progress and completed projects are all acceptable for submission.

If you would like to find out how to become more involved in the CSA initiative or would like to have your project featured in an electronic case study submission, please contact Matt at Matt.Follett@stantec.com. The CSCE CRED values your current membership and are accepting new applicants.

Report of the Vice President - Administration Coordinating Committee

Executive Summary

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, History, Honors & Awards, Life Members, and Membership Services. The ACC is responsible for the overall financial management of the Society, the delivery of services to the membership, as well as other duties assigned by the Board of Directors.

The following are the reports of each ACC Committee.

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

Membership Services Committee:

The Membership Services Committee continues to innovate and collaborate with internal and external groups. Management of the Mentoring Program was handed off to the National Office at the request of the VP ACC to free up resources for the Committee to work on other initiatives. Since the hand off, only incremental gains were made, to this initiative, which indicates that this initiative can grow with direct management, but languishes without it.

The Loyalty Program was joined with the Collaboration HUB (a.k.a. The HUB) in order to increase the number of “Touch-points” 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 On Line Membership Portals & Social Multimedia

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

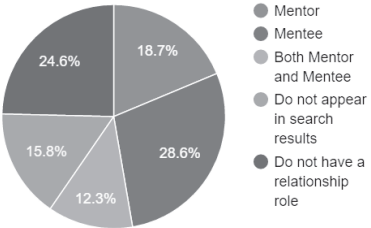
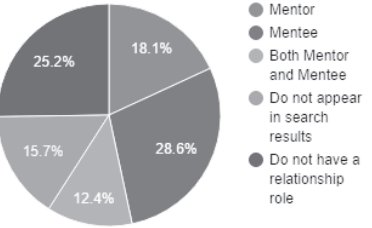
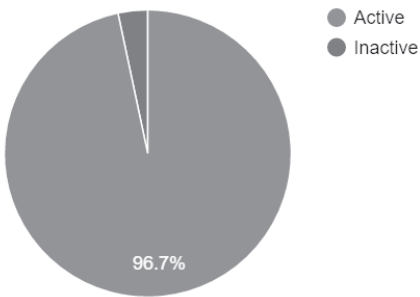
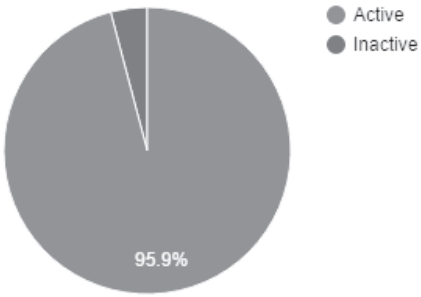
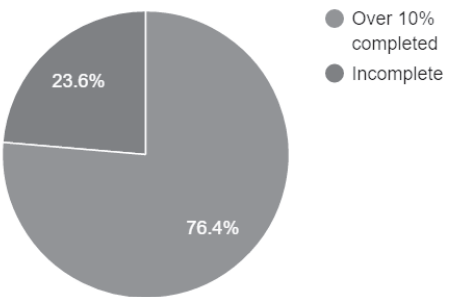
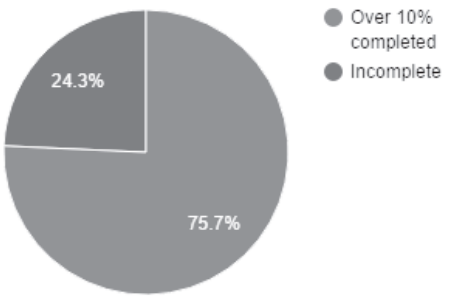
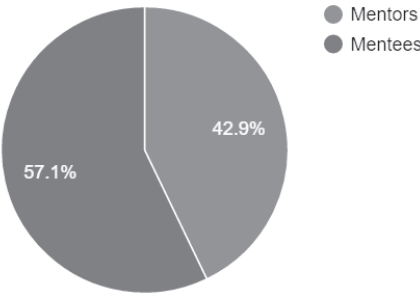
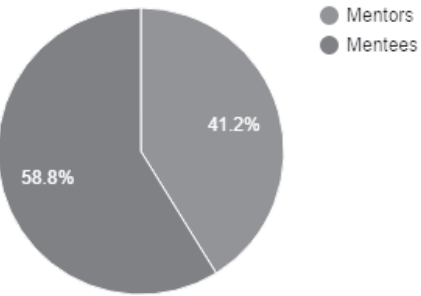
and intensity of relationships individual members have with each other by creating another touch point with the CSCE.

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 March 28, 2017, there are 210 members versus the 97 members reported on March 17, 2016. Months #5 & #6 gained 100 members compared to Months #1 to 4 for the first 100 members. The short term objective of 50 relationships between Mentor and Protégé is 88% achieved at 47 relationships. Observations

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.)	June 2016 (%)	March 2017 (%)
Goals		
Percentage of mentees who have entered their mentoring goals in a relationship. As of June 2016, 11 mentoring relationships out of the 44 mentoring relationships established. In March 2017, 13 mentoring relationships out of the 47 mentoring relationships established	25	27
Total number of goals entered	39	45
Total number of goals achieved	17	19
Number of Mentoring Objectives	6	6
Mentoring Relationships		
Percentage of members who are currently in 1 or more mentoring relationships. As of June 2016, 80 members out of the 203 active members. In March 2017, 84 members out of the 210 active members.	39	40
Percentage of members who currently have 1 or more mentors. As of June 2016, 38 members out of the 203 active members. In March 2017, 39 members out of the 210 active members.	18	18
Percentage of members who currently have 1 or more mentees. As of June 2016, 30 members out of the 203 active members. In March 2017, 29 members out of the 210 active members.	14	13
Percentage of members who have calculated their mentoring hours. As of June 2016, 9 members out of the 203 active members. In March 2017, 11 members out of the 210 active members.	4	5
Mentoring Agreements		
Percentage of mentees and mentors who have completed a mentoring agreement. As of June 2016, 11 mentoring relationships out of the 44 established. In March 2017, 14 mentoring relationships out of the 47 established	25	29
Program Evaluations		
Number of mentees who have completed a program evaluation	0	0
Number of mentors who have completed a program evaluation	0	0

June 2016	March 2017								
<table border="1"> <tr> <td>Members 203</td> <td>Searches 103</td> </tr> <tr> <td>Invitations 3</td> <td>Relationships 44</td> </tr> </table>	Members 203	Searches 103	Invitations 3	Relationships 44	<table border="1"> <tr> <td>Members 210</td> <td>Searches 109</td> </tr> <tr> <td>Invitations 2</td> <td>Relationships 47</td> </tr> </table>	Members 210	Searches 109	Invitations 2	Relationships 47
Members 203	Searches 103								
Invitations 3	Relationships 44								
Members 210	Searches 109								
Invitations 2	Relationships 47								
<p>Total Number of Mentors and Mentees</p>  <ul style="list-style-type: none"> Mentor Mentee Both Mentor and Mentee Do not appear in search results Do not have a relationship role 	<p>Total Number of Mentors and Mentees</p>  <ul style="list-style-type: none"> Mentor Mentee Both Mentor and Mentee Do not appear in search results Do not have a relationship role 								
<p>Members</p>  <ul style="list-style-type: none"> Active Inactive 	<p>Members</p>  <ul style="list-style-type: none"> Active Inactive 								
<p>Profiles</p>  <ul style="list-style-type: none"> Over 10% completed Incomplete 	<p>Profiles</p>  <ul style="list-style-type: none"> Over 10% completed Incomplete 								
<p>Available Mentors and Mentees</p>  <ul style="list-style-type: none"> Mentors Mentees 	<p>Available Mentors and Mentees</p>  <ul style="list-style-type: none"> Mentors Mentees 								

& 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: Assign a 2 to 3 person team to promote and manage the Mentorship Program. Ideally, all 3 members of the Mentorship Program are senior members of the CSCE with 1 to 3 hours/month dedicated to this program.

For the remainder of 2016, the Membership Services Committee will continue to promote the CSCE Mentorship program with other online content.

Loyalty Program & Collaboration HUB: Joint Task Force

Concept of Loyalty Points Program in analysis & design development. Volunteer activities, including mentorship, section, region and national management/contributions, content development and promotion of Civil Engineering to 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.

Mission: "Using the most advanced insight insight tools, develop the best online user experience for all members of the Canadian Society for Civil Engineering."

1. Task Force Streams: We are first looking at what User Experiences (UX) the Members want on line.
 - a. We will obtain this as a desired output from our Task Force's Stream #1: Customer & Member Insights.
 - b. We will take these insights and design our on line User Interface (UI) with our Task Force's Stream #2: Minimum Viable Product (MVP) Design.
 - c. Then we will analyze and recommend a portal ecosystem that best fits the

- MVP through our Task Force's Stream #3: Portal Assessment, which will perform a cost/benefit analysis to create, establish and operate for 5 years.
2. Task Force Stream #3: The Portal Assessment consists of the following criteria:
 - a. Financial Cost to operate for 5 years,
 - b. Provider's experience with similar customers,
 - c. Developer community,
 - d. Support after engagement,
 - e. Add on applications or App Stores and
 - f. Do It Yourself (DIY) development.
- a. Financial Cost: A financial model was created and included in the Google Drive, for later inclusion in the Appendix of this report. Using a 5 year time line, a 5% Risk Free Rate as independent variables along with key cost categories: Build Investment, Annual Fee, Hosting and Improvements to compare each option. Quotations were obtained after interviewing each organization where the CSCE's Minimum Viable Product (MVP) was described. Three finalists are ranked based on the 5 year financial cost.
 - i. Salesforce Foundations: #1
 1. Range Estimate = \$12,318 to \$17,318
 - a. In house CSCE development with "Not for Profit Service Pack" bundled software package. \$12,318
 - b. Mildly customized by 3rd party estimated at \$17,318
 - ii. Mirego: #2
 1. Estimate = \$55,331
 - iii. iMIS: #3
 1. Estimate = \$136,638
 - b. Providers' Experience: In this assessment criteria, the service provider's prior work, as an indication of proven ability to deliver, was ranked, as indicated below:
 - i. Salesforce Foundations: #1
 1. Global experience with Tier 1 For Profit and Not For Profit Organizations
 - ii. iMIS: #2
 1. Global experience with Tier 1 Not For Profit Organizations
 - iii. Mirego: #3
 1. Regional experience with For Profit and Not For Profit Organizations. Mirego is a relative newcomer to the market.
 - c. Developer Community: Of the three (3) Alternatives only Salesforce has a robust Developer Community that can aid in improving the User Experience (UX) and development of the User Interface (UI)
 - i. Salesforce Foundations: #1
 - ii. Mirego: #2 (Tie)
 - iii. iMIS: #2 (Tie)
 - d. Support After Engagement: All three Alternatives offer after engagement support. However, this support may or may not be fee based.
 - i. Salesforce Foundations: #1 (Tie)
 1. Free
 - ii. iMIS: #1 (Tie)
 1. Included in Annual Fee
 - iii. Mirego: #2
 1. Paid
 - e. Add on Applications or Application Store: Of the three alternatives, only Salesforce has a fully developed App Store.
 - i. Salesforce Foundations: #1
 1. App Store Available
 - ii. Mirego: #2 (Tie)
 1. Not Available
 - iii. iMIS: #2 (Tie)
 1. Not Available
 - f. Do It Yourself (DIY) Capabilities: Of the three alternatives, only Salesforce has accessible DIY capabilities.
 - i. Salesforce Foundations: #1
 1. App Store Available
 2. Bundle of software: NonProfit Success Pack <http://www.salesforce.org/nonprofit/nonprofit-success-pack/>
 3. Service Cloud
 4. Marketing Cloud
 5. https://developer.salesforce.com/page/Architecting_Force.com_Apps_A_Design_Primer
 - ii. Mirego: #2 (Tie)
 1. Not Available
 - iii. iMIS: #2 (Tie)
 1. Not Available

Technologist Member Campaign

Early concept in development.

Composition of Membership Committee

Dedicated Committee Member(s): 2

Peter Calcetas, Chair

Stephanie Daló, Vice Chair (as of March 2017)

Coordination with other Committees: 2

Communications & Business Development

Loyalty Hub Taskforce: 10

Susan Tighe, Incoming President;

Peter Calcetas, Chair, Member Services;

Peter Seibert, Chair, Communications;

Stephanie Daló, Vice Chair, Member

Services; Student Members: **Drew Barlow**,

Max Midwinter, **Spencer Arbuckle**,

Jacob Terry, **Nudrad Bhuiyan**, Waterloo

Administrative Support: **Jessica Rossi**.

Internal Customer Committees: 2

Student Affairs & Young Professionals

Chair:

Peter Calcetas, Membership Services

Life Members Committee:

CSCE Members and Fellows are entitled to become Life Members (LMCSCE) and Life Fellows (LFCSCCE), respectively, when they reach 65 years of age providing that the sum of age plus years as fee-paying members is 95 or more. During the Board of Directors' meeting held in London, Ontario, in June 2016, it was decided to discontinue the "unofficial" membership categories of retired member and retired fellow, while giving the National Office some discretion with respect to the fees charges for engineers older than 65 years of age who do not meet the 95 age-plus-membership rule.

The Life Members Committee (LMC) specifically represents the interests of CSCE Life Members and Life Fellows (hereafter referred to collectively as "life members") and generally advocates for older civil engineers. During 2016, the LMC has advocated for increased CSCE membership benefits and services for Life Members (and Fellows) and, indeed, for all older CSCE members (age 55 plus). The LMC promoted the holding of special events at the regional and section levels (a) to recognize the contributions of life members to the CSCE and to wider Canadian

society, and (b) to provide older engineers aged 55 plus to meet socially. Advocacy initiated in 2006 on behalf of older members is ongoing.

The LMC wants the abilities and experience of life members to be recognized, and for life members to have multiple opportunities to serve as members and (or) advisors of CSCE committees (including the Board of Directors and other high-level committees). The LMC supports reduction in CSCE membership dues and conference fees for life members, as a means of recognizing their contributions as long-term members of the CSCE.

The LMC is concerned about issues facing older engineers in the workplace. The LMC is encouraging the CSCE to support older engineers who wish to continue practicing as professional engineers by providing targeted opportunities for technical upgrading and advancement, by promoting the hiring and meaningful employment of older engineers, and by adopting policies against age discrimination in the workplace. The LMC wants the CSCE and its corporate and institutional members to be inclusive and supportive of older civil engineers.

Gratitude is expressed to Peter Wright, Mel Hosain, Jules Houde, Brian Burrell, and Orlando Martini for their contributions to the LMC during 2016. We welcome Todd Chan as a LMC member starting in 2017.

The LMC invites life members to assist them in advocating for CSCE's life members, and for older civil engineers in general. Life members interested in serving on the LMC should contact the National Office.

Report prepared by:
Brian C. Burrell, LMC Member

Communications Committee

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 supporting the committee focus that:

- Contribute to retain members or to

attract new members.

- Raise the profile of the Civil Engineering profession.
- Raise the awareness of sustainable infrastructure.

In 2016, the national office completed 6 member profiles under the “I am Civil Engineering” campaign to raise the public profile of civil engineering. This initiative was born during the 2015 strategic workshop. The profiles were published in the Civil Engineer magazine and are currently posted on the CSCE website. As an extension of the original campaign, a graphic designer developed the “I do Civil Engineering” posters which will be rolled out in 2017. The poster is simple, clean, professional and communicates in one sentence why one of our members is passionate about their work. This poster includes a picture of the civil engineers project promoting sustainable infrastructure.

The national office took the lead for posting on Twitter, Facebook and LinkedIn accounts as part of the Social media strategy.

Press releases were issued for both awards: 2016 CSCE-CANAM Award for Excellence in Civil Engineering Innovation and 2016 Award for Governmental Leadership in Sustainable Infrastructure. Grass root communication tactics were applied for both press releases and they were published in the local media of the recipient's cities (Journal of Commerce & local papers) and e-newsletters (SAB Magazine.com & CSCE E-Bulletin).

The committee developed the “Civil Engineer CSCE” pin to be worn by our members. A small focus group showed that only wearing the CSCE pin is not yet fully recognized by the general public. By spelling out “Civil Engineer” combined with the CSCE logo, people can relate to the profession and start talking with the pin bearer. Nobody else can speak more passionately about civil engineering than a civil engineer.

The pin is bilingual, uses the 3 original colours of the CSCE, draws attention to the words “Civil Engineer” and has a “shield” on top of a “shield”. The meaning of the pin is that civil engineering is about building sustainable infrastructure to

protect our society/people from harm. This initiative will further help to raise the profile of the Civil Engineering Profession, especially with the general public.

The committee developed an outline of a communication plan and needs to work on 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 2017/18, 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 extend the “I am Civil Engineering” campaign and will encourage our members to “Wear the Pin”. The committee is working in collaboration with the Member Services Committee and the Loyalty Hub Taskforce. Press releases of the CSCE Awards for Excellence in Civil Engineering Innovation and for Governmental Leadership in Sustainable Infrastructure will be communicated. The committee will focus on developing a branding policy to ensure CSCE brand/logo consistency, completing the Communication Plan and recruiting more committee members.

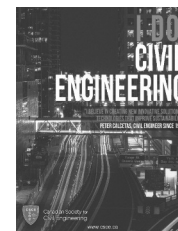
The committee consists of 3 members: **Peter Seibert** (Chair – Communication Committee), **Peter Calcetas** (Chair – Member Services) and **Spencer Arbuckle** (joined March 2017). The committee is currently looking for more members to join.

“Wear the Pin”:



“I do Civil Engineering”:

Chair: **Peter Seibert**



National Conference Committee
Semi-Annual Report

Further to the discussions at the meetings in Montreal in November of 2016 the following activities have been undertaken;

- Development of Conference Goals /

Objectives.

- Host one conference call to initiate the conference committee membership.
- Develop outlines for National, Regional and Technical (Stand-alone) Conferences.
- Develop a list of Discussion items for the
- Meet with ACC Chair to review and discuss issues relating to the National, Regional and Technical Conferences and the level at which the issues should be reviewed and discussed (at the National Board level or the Conference Committee level.
- Break out discussion items and initiate a second conference call.

Plans for 2017

- Distribute Tentative Agenda for the next conference call.
- Finalize definitions of the National, Regional and Technical Conferences.
- Prompt the Regional and Technical Chairs to develop a program of Regional and Technical conferences to augment the National Conference.
- Initiate review of Webinar attendee for the Technical conferences.

Regards,

Graham Sterparn, P.Eng., FCSCE
Chair – CSCE National Conference Committee

Corporate Engagement Committee

Committee members: Jim Gilliland, Glenn Hewus, Michel Khouday, Wade Zwicker, Adrian Munteanu, Vic Perry, Peter Langan, Jennifer Graham Harkness, Willy Yung, Lloyd Waugh.

Since June 2016, the committee has held six (6) conference call meetings (June, July & September 2016 and March, April & May 2017) to follow up on the renewal, upgrade and recruitment process of corporate members.

The first 3 meetings in 2016 were focused on the guidance of a marketing consultant who took care of creating a new 5 tiers – 5 years corporate engagement program with more benefits, more customization and more loyalty incentive when compared with the previous 3 tiers – 1 year corporate membership program. We were able to sign nine (9) corporate engagement agreements including seven (7) 5 years commitment

for an additional secured revenues of \$76,400.00 over a 5 year time period.

The last 3 meetings in 2017 were focused on helping the Vancouver LOC Sponsorship committee to accomplish their sponsorship objective of \$200,000.00. The follow up strategy with the contact people list will be to offer them to pursue their engagement with CSCE by becoming officially corporate members and maybe extend their implication at the 2018 Annual Conference event in Fredericton, NB.

The committee now rely on its own participant members, all the CSCE volunteers in the Regions and Sections across Canada and dedicated members in particular the past presidents and Fellows to identify some key contacts (at least 2 per person) within different corporations.

The follow up with these key contacts for the presentation of our new corporate engagement program will be coordinated by the 2017-2018 proposed nominated committee chair, Tony Bégin, in collaboration with a national office representative.

Respectfully submitted,
Tony Bégin, P.Eng, MASc, CDP, MCSCE
Immediate Past President (2015-2016)
Chair

Honours and Fellowships Committee

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 2016 with David Innis and Vic Perry becoming members of the committee. The committee is still searching for a member to assume the role of Best Paper Coordinator.

At the 2017 Awards for Civil Engineering Excellence Gala, in Vancouver, BC, in May, 2017, 15 members of CSCE will be awarded the status of Fellow, the winners of four Best Paper Awards will be announced, eight members will be recognized for contributions to CSCE and/or the profession and the honoree of the CSCE award for government leadership in sustainable infrastructure will be announced. Also, the 2017 recipient of the Donald Jamieson Fellowship will be recognized.

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, QC, in April 2017, six members of CSCE were awarded Fellowships.

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.

Respectfully submitted,
Randy Pickle, P. Eng., FCSCE, FEC, FEIC
Chair

NATIONAL HISTORY COMMITTEE

The Committee includes members from BC, Alberta, Saskatchewan, Québec, Nova Scotia, New Brunswick and Ontario, and has been holding regular Teleconference Meetings. During the year, the Committee welcomed as new members Vahid Ayan (Edmonton), Dale Bray (Fredericton), Alan Perks (Ottawa) and Tian Wang (Vancouver). Following the Committee's succession plan, Michael Bartlett will become Vice Chair in June, 2017, and I will continue as chair until June, 2018. Michael Bartlett will assume the role of chair in June, 2018.

The Committee has been working with the Local Organizing Committee for the 2017 Vancouver Conference on the Historic Site Commemoration for the Mosquito Creek Bridge, and with setting up History Paper/Presentation Sessions. Initial discussions are already under way regarding the 2018 Conference in Fredericton for which Dale Bray will be the contact person. Two possible historic sites in New Brunswick are under

consideration.

The identification and commemoration of National Historic Sites continues to be one of the Committee's principal activities and a nomination for Iqaluit Airfield in Nunavut was recently endorsed. The nomination will now be considered by the Administration Coordinating Committee and then by the Board of Directors. A Joint nomination of the Boundary Layer Wind Tunnel at Western University as an International Historic Site is currently being pursued by the ASCE and the CSCE. It is possible that ASME will also participate.

This year's W. Gordon Plewes Award winner is Siobhan Roberts for her book "Wind Wizard – Alan G. Davenport and the Art of Wind Engineering". The Committee is very pleased that Ms. Roberts will be attending the Awards Banquet in Vancouver.

With 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 progressing on the drafting of a Memorandum of Understanding between the two organizations.

The CSCE Sesquicentennial History Project led by Alan Perks will be a poster display featuring the role civil engineering plays in Canada's development, past, present and future. The poster display will initially be located at Ottawa City Hall but will be available for other locations across the country.

The rebuilding of the History Committee Website is a high priority and work is proceeding on collating material for inclusion in the Website when it becomes available. 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 Chair has been invited to make a presentation at the ASCE Annual Conference in New Orleans in October, 2017. Information on Canadian Sites and Engineers has been provided to ICE for the "ICE 200 Project" which will select 200 Civil Engineering Projects Worldwide that have "transformed lives". Articles have also been contributed to the ICE International "Engineering History and Heritage" Journal. Respectfully submitted,

Alistair MacKenzie, Chair

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 in 2016.

CSCE Foundation Financial Position

	2015	2016
Interest, Dividend income and valuation gains	\$7,852	\$19,120
Donations	\$7,246	\$8,778
Minus expenditures on awards, administration and publications	\$4,499	\$1,818
Assets		
Foundation Fund	\$173,522	\$188,761
History Program Fund	\$5,118	\$5,577
Shanly Award Fund	\$13,207	\$14,396
Foundation General Fund	\$155,196	\$169,106
Jamieson Fund	\$111,046	\$121,887

As per an agreement between the trustees and the Society, the CSCE Foundation pays an annual administration fee to the Society equal to the greater of \$1,500 or 0.5 percent of the assets at the end of the financial year.

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.

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): Daniel Burns, Calgary, AB
David Innes, Fredericton, NB
Michael Bartlett, London, ON
Randy Pickle, Oshawa, ON (Chair, Honours and Fellows Committee)
Glenn Hewus, Ottawa, ON (Honourary Treasurer)

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

Report of the CSCE Nominating Committee (2016–2017)

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	Gilliland, end of term	Susan Tighe	1 yr
President-Elect	Tighe, end of term	Glenn Hewus	1 yr
Senior Vice-President and Chair, Regional Coordinating Committee	Hewus, end of term	Michel Khouday	1 yr
Past President	Bégin, end of term	Jim Gilliland	1 yr
Honorary Treasurer	Hewus, end of term	Brad Smid	2 yrs
Vice-President, Administration Coordinating Committee	Zwicker, finishing 2nd yr	Wade Zwicker	2 yrs
Vice-President, Technical Divisions and Committees	Achari, finishing 2nd yr	Gopal Achari	2 yrs
Vice-President Technical Programs	Newhook, finishing 1st yr	John Newhook	1 yr
Vice-President, Atlantic Region	Rankin, finishing 2nd yr	Samuel Richard	2 yrs
Vice-President, Quebec Region	Khouday, finishing 1st yr	Frédéric Brunet	2 yrs
Vice-President, Ontario Region	Munteanu, finishing 3rd yr	Adrian Munteanu	1 yr
Vice-President, Prairie Region	Hnatiuk, finishing 2nd yr	Mike Hnatiuk	2 yrs
Vice-President, Western Region	Philip Alex, end of term	To be determined	2 yrs
Vice-President, International	Burrell, finishing 3rd yr	Brian Burrell	1 yr
Member at Large representing Corporate Members	Langan, finishing 1st yr	Peter Langan	1 yr
Member at Large representing Heads and Chairs	El Damatty, end of term	Jeff Rankin	1 yr

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

Representative - Canadian Geotechnical Society (non-voting)	Catharine Mulligan, end of term	Dharma Wijewickreme	1 yr
Representative - Hong Kong Branch (non-voting)	Kelvin Cheung, finishing 2nd yr	Kelvin Cheung	1 yr

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

REPORTING TO SENIOR VICE PRESIDENT

Chair, Student Affairs Committee	Annan, finishing 4th yr	Charles–Darwin Annan	1 yr
Chair, Young Professionals Group	Moulins, finishing 2nd yr	Bernard Moulins	1 yr

REPORTING TO VICE PRESIDENT, INTERNATIONAL

Chair, International Affairs Committee	Gupta, finishing 3rd yr	Rishi Gupta	1 yr
--	-------------------------	-------------	------

ADMINISTRATION COORDINATING COMMITTEE

Chair, Communications Committee	Seibert, finishing 2nd yr	Peter Seibert	1 yr
Chair, History Committee	MacKenzie, finishing 1st yr	Alistair MacKenzie	1 yr
Chair, Business Development Committee	Bégin, finishing 1st yr	Tony Bégin	1 yr
Chair, Membership Services Committee	Calctas, finishing 4th yr	Stephanie Dalo	2 yrs
Chair, Honours and Awards Committee	Pickle, finishing 4th yr	Gord Jin	2 yrs
Chair, Life Members Committee	Wright, finishing 2nd yr	TBD	2 yrs
Chair, Conference Committee	Sterparn, finishing 2nd yr	Graham Sterparn	2 yrs

PROGRAMS COORDINATING COMMITTEE

Technical Divisions & Committees

Chair, Cold Regions Division	Follett, finishing 1st yr	Mathew Follett	1 yr
Chair, Construction Division	Sadeghpour, finishing 4th yr	TBD	2 yrs
Chair, Engineering Mechanics/Materials Division	Palermo, finishing 4th yr	Shahria Alam	2 yrs
Chair, Hydrotechnical Division	Mazurek, finishing 2nd yr	Kerry Mazurek	2 yrs
Chair, Environmental Division	Mulligan, finishing 2nd yr	Catherine Mulligan	2 yrs
Chair, Structures Division	El Damatty, finishing 1st yr	Ashraf El Damatty	1 yr
Chair, Transportation Division	Qiu, finishing 3rd yr	Tony Qiu	1 yr
Chair, Sustainable Development Committee	Lovegrove, finishing 1st yr	Gordon Lovegrove	1 yr
Chair, Innovation and IT Committee	Akhras, finishing 2nd yr	TBD	1 yr
Chair, Engineering Management Committee	Katsanis, finishing 3rd yr	Constantine Katsanis	1 yr

Technical Programs

Chair, Infrastructure Renewal Committee	Felio, finishing 1st yr	Guy Felio	1 yr
Chair, Engineering Practice Committee	Scanlon, finishing 1st yr	Mark Scanlon	1 yr
Chair, Education and Research Committee	Dragomirescu, finishing 3rd yr	Elena Dragomirescu	1 yr
Chair, Technical Publications Committee	Newton, finishing 3rd yr	Linda Newton	1 yr
NLT Coordinator	Garland, finishing 3rd yr	James Garland	1 yr
Editor, CJCE	Biswas, finishing 1st yr	Nihar Biswas	3 yrs

CSCE Membership / Adhésions SCGC

Regions	Dec 31/15	Dec 31/15	Dec 31/14	Grade	Dec 31/16	Dec 31/15	Dec 31/14
Atlantic	549	427	241	Fellow	195	282	265
Ontario	2632	1889	1143	Member (corp, US&intl, new)	1543	1412	1408
Prairie	359	343	264	Associate Member (1-4)	94	95	86
Quebec	1382	894	541	Technical/Professional Affiliate	15	22	16
Western	1781	1437	1152	Technologist (1st +)	4	12	8
SUB TOTAL - CDN	6703	4990	3341	SUB TOTAL - DUES PAYING MEMBERS	1829	1753	1723
Foreign	357	197	120	Life Member	223	318	224
GRAND TOTAL	7060	5187	3461	Fellow Life Member	139	130	119
				Associate Member (0 Year)	23	55	90
				SUB TOTAL - MISC	411	573	493
				Students	4820	2861	1245
				GRAND TOTAL	7060	5187	3461

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

Atlantic/Atlantique

Dalhousie University
Memorial University of Newfoundland
University of Moncton
University Of New Brunswick

Québec

Concordia University
École Polytechnique de Montréal
McGill University
École de Technologie Supérieure
Université Laval
Université de Sherbrooke

Ontario

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

Prairies

Institute for Energy Environment &
Sustainable Communities - University of Regina
University of Manitoba
University Of Saskatchewan

West/Ouest

British Columbia Institute of Technology
University of Alberta
University of British Columbia - Okanagan
University of British Columbia - Vancouver
University of Calgary
University of Victoria

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 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 five trustees. The current trustees are: Randy Pickle FCSCE, Dan Burns, FCSCE, David Innes, FCSCE, Michael Bartlett, FCSCE and Glenn Hewus Honorary Treasurer CSCE.

The committee wishes to thank the CSCE's Executive Director Mr. Salloum, for his research and the execution of the committee's recommendations.

Founding Sponsors

Acres International Limited
Amca International Limited
C.C. Parker Consultants Limited

Delcan Corporation
Peter Kiewit Sons Co. Ltd.
Trow Inc.

Founding Members

George Akhras
John Bahen
Ira M. Beattie
E. John Bliss
H. Keith Bowers
Camille A. Dagenais
Robert Hewitt
Leslie G. Jaeger
D.J. Laurie Kennedy

Harold L. Macklin
D. Miklas
M. Saeed Mirza
R.C. Monaghan
Daniel W. Smith
Leslie Smith
Gerard J. Splinter
Chris D. Thompson
Ken Worsley

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING
FINANCIAL STATEMENTS
FOR THE YEAR ENDED DECEMBER 31, 2016

CONTENTS

	PAGE
Independent Auditor's Report	1 - 2
Financial Statements	
Statement of Financial Position	3
Statement of Changes in Net Assets	4
Statement of Revenues and Expenditures	5
Statement of Cash Flows	6
Notes to the Financial Statements	7 – 12

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, 2016, 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, 2016, 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.É.É.C.É.L./LLP¹

Montréal, Québec
April 24, 2017

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

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING
STATEMENT OF FINANCIAL POSITION
AS AT DECEMBER 31, 2016

	2016	2015
ASSETS		
Current		
Cash and cash equivalents (Note 4)		
Unrestricted	\$ 595,022	\$ 460,498
Restricted	89,170	159,650
Accounts receivable (Note 5)	91,097	127,631
Government remittances receivable	27,234	16,654
Conference advances	23,591	28,023
Prepaid expenses	21,051	14,528
	<u>847,165</u>	<u>806,984</u>
Property and equipment (Note 6)	1,569	2,582
Software (Note 7)	<u>17,646</u>	<u>8,467</u>
	<u>\$ 866,380</u>	<u>\$ 818,033</u>
LIABILITIES		
Current		
Accounts payable and accrued liabilities	\$ 254,535	\$ 96,457
Government remittances payable	8,398	8,732
Due to regions and sections	67,724	69,563
Deferred revenue	10,071	78,986
Unearned competition revenue	12,840	-
Current portion of transfer payable – Second Century Fund (Note 8)	1,356	-
	<u>354,924</u>	<u>253,738</u>
Transfer payable – Second Century Fund (Note 8)	<u>5,423</u>	<u>-</u>
	<u>360,347</u>	<u>253,738</u>
NET ASSETS		
Second Century Fund	89,170	159,650
Unrestricted	<u>416,863</u>	<u>404,645</u>
	<u>506,033</u>	<u>564,295</u>
	<u>\$ 866,380</u>	<u>\$ 818,033</u>

APPROVED ON BEHALF OF THE BOARD:

 Director / Administrator
 Director / Administrator

See accompanying notes

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING
STATEMENT OF CHANGES IN NET ASSETS
FOR THE YEAR ENDED DECEMBER 31, 2016

	2016	2015
Second Century Fund		
Balance, beginning of year	\$ 159,650	\$ 159,650
Transfer of Funds (Note 8)	(70,616)	-
Interest earned on transfer payable	<u>136</u>	<u>-</u>
Balance, end of year	\$ <u>89,170</u>	\$ <u>159,650</u>
Unrestricted		
Balance, beginning of year	\$ 404,645	\$ 401,949
Net earnings	<u>12,218</u>	<u>2,696</u>
Balance, end of year	\$ <u>416,863</u>	\$ <u>404,645</u>

See accompanying notes

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING
STATEMENT OF REVENUES AND EXPENDITURES
FOR THE YEAR ENDED DECEMBER 31, 2016

	2016	2015
Revenue		
Membership fees		
Full members	\$ 219,812	\$ 257,367
Students	-	15,198
Corporate	111,045	83,750
Institutional members	7,100	1,750
Communications	75,862	96,011
Lifelong learning	74,976	168,306
Annual conference	629,120	324,344
Conferences (net)	54,101	71,660
Management fees	25,000	25,000
Interest	5,587	5,069
Miscellaneous	10,513	18,075
	<u>1,213,116</u>	<u>1,066,530</u>
Expenditures		
Administration	407,353	424,937
Communications	84,314	105,756
Lifelong learning	90,458	110,501
Rebates to regions and sections	2,409	12,474
Committees and Board (Note 8)	64,336	44,084
Annual conference	484,531	281,789
Annual meeting	15,906	29,855
Special projects	1,508	35,703
Awards and sponsorship	33,270	8,960
Interest on transfer payable – Second Century Fund	136	-
Miscellaneous	16,677	9,775
	<u>1,200,898</u>	<u>1,063,834</u>
Net earnings for the year	\$ <u>12,218</u>	\$ <u>2,696</u>

See accompanying notes

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING
STATEMENT OF CASH FLOWS
FOR THE YEAR ENDED DECEMBER 31, 2016

	2016	2015
Operating activities		
Net earnings for the year	\$ 12,218	\$ 2,696
Adjustment for Amortization	<u>10,001</u>	<u>6,265</u>
Total adjustments	22,219	8,961
Net change in non-cash working capital items		
Decrease (increase) in accounts receivable	36,534	(47,864)
Increase in government remittances receivable	(10,580)	(15,703)
Decrease in conference advances	4,432	3,786
Increase in prepaid expenses	(6,523)	(11,973)
Increase in accounts payable and accrued liabilities	158,078	25,926
(Decrease) increase in government remittances payable	(334)	727
(Decrease) increase in due to regions and sections	(1,839)	11,552
Decrease in deferred revenue	(68,914)	(10,499)
Increase in unearned competition revenue	<u>12,840</u>	<u>-</u>
Cash provided by (used in) operating activities	<u>145,913</u>	<u>(35,087)</u>
Investing activity		
Purchase of equipment	<u>(18,168)</u>	<u>(3,551)</u>
Financing activities		
Advance from Second Century Fund	(70,616)	-
Interest earned on transfer payable - Second Century Fund	136	-
Increase in transfer payable - Second Century Fund	<u>6,779</u>	<u>-</u>
Cash used in financing activities	<u>(63,701)</u>	<u>-</u>
Increase (decrease) in cash and cash equivalents	64,044	(38,638)
Cash and cash equivalents, beginning of year	<u>620,148</u>	<u>658,786</u>
Cash and cash equivalents, end of year	<u>\$ 684,192</u>	<u>\$ 620,148</u>
Cash and cash equivalents consist of:		
Cash and cash equivalents	\$ 595,158	\$ 460,498
Cash - restricted	<u>89,034</u>	<u>159,650</u>
	<u>\$ 684,192</u>	<u>\$ 620,148</u>

See accompanying notes

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING

NOTES TO THE FINANCIAL STATEMENTS

AS AT DECEMBER 31, 2016

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**

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

(a) **Measurement uncertainty**

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

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING
NOTES TO THE FINANCIAL STATEMENTS
AS AT DECEMBER 31, 2016

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 loan 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, 2016

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 May 2017 and June 2020 (2015 - bank's prime interest rate less 2% maturing April 2016).

5. Accounts receivable

	<u>2016</u>	<u>2015</u>
Trade receivables	\$ 110,177	\$ 129,426
Allowance for doubtful account	<u>(19,080)</u>	<u>(1,795)</u>
	<u>\$ 91,097</u>	<u>\$ 127,631</u>

6. Property and equipment

	<u>2016</u>		<u>2015</u>	
	<u>Cost</u>	<u>Accumulated amortization</u>	<u>Net</u>	<u>Net</u>
Property and equipment	<u>\$ 19,144</u>	<u>\$ 17,575</u>	<u>\$ 1,569</u>	<u>\$ 2,582</u>

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING
NOTES TO THE FINANCIAL STATEMENTS
AS AT DECEMBER 31, 2016

7. Software

	<u>2016</u>			<u>2015</u>
	<u>Cost</u>	<u>Accumulated amortization</u>	<u>Net</u>	<u>Net</u>
Database software	\$ <u>41,111</u>	\$ <u>23,465</u>	\$ <u>17,646</u>	\$ <u>8,467</u>

8. Transfer payable - Second Century Fund

During the year, 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:

	<u>2016</u>
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 \$136 was incurred during the year.	\$ <u>6,779</u>
Less current portion	<u>1,356</u>
Due beyond one year	\$ <u>5,423</u>

Estimated principal repayments are as follows:

2017	\$ 1,356
2018	1,356
2019	1,356
2020	1,356
2021	<u>1,355</u>
	\$ <u>6,779</u>

THE CANADIAN SOCIETY FOR CIVIL ENGINEERING
NOTES TO THE FINANCIAL STATEMENTS
AS AT DECEMBER 31, 2016

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. Line of credit

The Society has available a line of credit of \$50,000, due on demand and bearing interest at prime per annum plus 2% on all outstanding borrowings. As at December 31, 2016, the line of credit has not been drawn upon.

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, 2016

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. A three-member committee appointed by the Society administers the Fund.

	<u>2016</u>	<u>2015</u>
Assets		
Cash	\$ 71,848	\$ 38,312
Investments	229,376	243,794
Accounts receivable	9,425	2,462
	<u>\$ 310,649</u>	<u>\$ 284,568</u>
Net Funds		
Trustees Fund		
Balance, beginning of year	\$ 173,522	\$ 174,868
Interest	1,405	1,699
Dividends	2,532	2,340
Fair value gain (loss)	6,051	(8,670)
Donations	6,350	7,056
Awards and other expenses	(1,099)	(3,771)
	<u>\$ 188,761</u>	<u>\$ 173,522</u>
Jamieson Fund		
Balance, beginning of year	\$ 111,046	\$ 115,958
Interest	1,285	1,604
Dividends	2,315	2,209
Fair value gain (loss)	5,532	(8,187)
Donations	2,428	190
Awards and other expenses	(719)	(728)
	<u>\$ 121,887</u>	<u>\$ 111,046</u>

CSCE PARTNERS & SPONSORS | ASSOCIÉS ET COMMANDITAIRES DE LA SCGC

We invite you to consult our web page (<https://csce.ca/membership/corporate>) to discover all the benefits associated with our Corporate Engagement Program.

PREMIUM PARTNERS | PARTENAIRES PRÉMIUM

Become a distinctive CSCE Corporate Partner and add your logo here.

MAJOR PARTNERS |

Become a distinctive CSCE Corporate Partner and add your logo here.

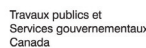
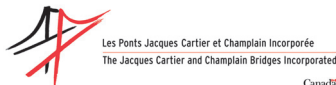
SENIOR PARTNERS | PARTENAIRES PRÉMIUM

Become a distinctive CSCE Corporate Partner and add your logo here.

PARTNERS | PARTENAIRES



AFFILIATES | AFFILIÉS



CSCE SECTIONS SCGC

Newfoundland

Contact: Bing Chen, MCSCE
T. 709-864-8958
E-mail: bchen@mun.ca

Nova Scotia

Contact: Haibo Niu, MCSCE
E-mail: haibo.niu@dal.ca

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

Contact: Samuel Richard, MCSCE
T. 506-857-3164
E-mail: samuel.richard@canamgroupinc.com

West New Brunswick

Contact: Brandon Searle, SMCSCE
T. 506-260-3947
E-mail: Brandon.searle@opusinternational.ca

Montréal

Contact: Frédéric Brunet, MASCSCE
T. 514-583-4632
E-mail: frederic.brunet@hotmail.ca

Sherbrooke

Contact: Jean-Gabriel Label, MESCSCE
T. 514-502-7368,
Courriel: jg.label@usherbrooke.ca

Québec

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

Capital Section (Ottawa-Gatineau)

To be announced

Toronto

Contact: Nigel Parker, AMCSCE
T. 647-463-5002
E-mail: nparker@rjc.ca

Hamilton/Niagara

Contact: Ben Hunter, MCSCE
T. 905-335-2353 x 269
E-mail: ben.hunter@amec.com

Northwestern Ontario

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

Durham/Northumberland

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

London & District

Contact: Stephanie Dalo, MCSCE
T. 519-673-0510
E-mail: stephanie.dalo@aecom.com

Manitoba

Contact: Tricia Stadnyk, MCSCE
T. 204-474-8704
E-mail: Tricia.Stadnyk@umanitoba.ca

South Saskatchewan

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

Saskatoon

Contact: Ehren Gadzella, AMCSCE
T. 306-343-7280
E-mail: e.gadzella@cwce.ca

Calgary

Contact: Kris Karvinen, MCSCE
T. 403-716-1489
E-mail: cscecalgarychapter@gmail.com

Edmonton

Contact: Mark A. Scanlon, MCSCE
T. 780-801-6115
E-mail: mark.scanlon@arrowonline.ca

Vancouver

Contact: Graham Walker, MCSCE
T. 780-496-5695
E-mail: graham.walker2@aecom.com

Vancouver Island

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

CSCE Hong Kong Branch

Contact: Kelvin Cheung, MCSCE
T. 011-852-9225-0304
E-mail: kelvin_cheung@wanchung.com