

CSSE Newsletter

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The President's Remarks

Well, the year has come and gone and it is time for me to write my final submission for the CSSE Newsletter as your President. It seems like just yesterday that a group of the CSSE members gathered in Regina for our 2017 Annual Meeting and **Ron Britton** passed the reins of the organization over to me. I want to thank all of you for the trust that you placed in me to be at the helm of the CSSE ship over the past year. I hope I was able to steer it in a positive direction.



President Shawna Argue

As my work life kept me busy this past year, the accomplishments were small but many and included:

- * Review of a preliminary Past President's Task Force Report;
- * Consideration of Canada Revenue Agency recommendations on charity status;
- * Review of financial management model including signing authorities, establishing an operating reserve;
- * Creation of a Membership Committee and appointment of **William Altimas** as Chair;
- * Rotation of the location of the CSSE annual meeting to coincide with the Canada Wide Science Fair - recommendation to the Board to hold the 2019 meeting in Fredericton;
- * Standardization and update of the Committees' Terms of Reference to be recommended to the Board;
- * Work towards the finalization of a contract with our Administrator;
- * Updates to a variety of Standard Operating Procedures (SOPs) to be recommended to the Board;
- * Appointment of a new Treasurer - **Jim Beckett**; and
- * Initiation of an audit of financial statements at the transfer of the Treasurer.

Many of the above points will be topics for discussion at the upcoming Board and Annual Meetings in Calgary on May 12, 2018.

At this time, I must also reflect on some of the challenges that the CSSE faces:

- * Diverging views on what the objectives of CSSE are/should be;
- * Low member numbers;
- * Small core group of dedicated members that keep the organization running; and
- * Lack of interest at some of the local levels for "branch meetings" and/or volunteering locally or for national events.

The President's Remarks ... *continued*

(Continued from page 1)

As part of the Past President's Task Force report, I think it is time that the organization takes a hard look at itself and its reason for being. If the organization is to survive, not only do we need to grow our membership numbers, but we also need the commitment of a lot more members/volunteers than those that are currently active, and / or retiring. Speaking of engagement, the Officers' Committee and the Board would be interested in getting your perspective of what you want to get out of the CSSE, personally, and what it can provide as a national organization.

I would like to thank those members of the Board of Directors who are not returning for the 2018/2019 year for your service to CSSE, including:

- * **Jerry Cutler** (GTA);
- * **Nick Malychuk** (Edmonton); and
- * **Ron Gilkie** (Halifax).

Also, many thanks to **Colin Smith** who wore many hats for CSSE over the past several years and was a great source of guidance and advice to me during my tenure.

I must also thank one special member of our Officers' Committee - **Margaret Kuzyk**. **Margaret** took on the role of Secretary at my urging a couple of years ago when I told her she "just had to take minutes at a couple of meetings a year." Boy, was I wrong!!! Thank you **Margaret** for all your hard work over the past two years. You have put a degree of organization into the secretarial duties that should make your successor's job an easy one! I appreciate all the support over the past year.

Finally, I would like to welcome our incoming President, **Suzelle Barrington** and wish her all the best as I pass the organization's reins to her at the May 12 meeting.

New & Returning Members

Barry MacBride
(Winnipeg)

James Olson (Vancouver)

Fred Cross (Winnipeg)

Recruit a New Member!

If you have a friend who is not a CSSE member, simply refer her or him to the CSSE website at www.seniorengineers.ca

Members in the News

Bob Mather has volunteered to serve as CSSE Ottawa representative at the May 14th Canada Wide Science Fair, this being the 3rd time that Ottawa has hosted this fair.

Bill Altmas of Montreal will be judging at the Canada Wide Science Fair for the 3rd year in a row.

Shown is CSSE Director **Pieter Van Vliet** of Regina (left) making a formal FCSSE presentation on March 18 to **Al Schwinghamer**, former Mayor of Moose Jaw, who was unable to attend the 2017 AGM and official awards presentation.



Past President **Colin Smith** has been awarded a Vice Regal Commendation by BC Lieutenant Governor **Judith Guichon**

The 2018 AGM and Awards Dinner

The CSSE 2018 Annual Meeting and Awards dinner will be held in Calgary on May 12, 2018. A varied program of activities is being planned by the host committee under the leadership of the Leo Flaman. Details of the program can be viewed at the CSSE Website www.seniorengineers.ca.

This is the second CSSE Annual Meeting being held in Calgary.

On Saturday, May 12, 2018 the Annual Meetings will be held, at the APEGA offices. During the luncheon break, **Darin Watson**, Vice President, Engineering, Construction and Operations at Berkshire Hathaway Energy-Canada, and previously at AltaLink leading the Western Alberta Transmission Line project, will give a presentation on WATL (Western Alberta Transmission Line), Alberta's first in-service HVDC (High Voltage Direct Current) line. At the Awards Banquet, which will be held at the Calgary Golf and Country Club, 12 engineers from Canada will be receiving Fellowship Awards. Also at the dinner we will hear from **Jeff Gaulin**, Vice President Communications, Canadian Association of Petroleum Producers (CAPP) on the future of energy in Alberta, Canada, and the world.

Progress of CSSE Papers

"The Aging of our Vital Infrastructure and the Threat to Public Safety - an Engineering Responsibility" (Contact **Jean-Guy René**, at jg.rene@sympatico.ca or 613-821-5273) has been distributed to a representative of each province for distribution to local authorities of his or her choice.

Still being developed are:

"The Erosion of Canada's Manufacturing Sector - What Can Engineers Do About It?" (Contact **John Dinsmore** at johndins@videotron.ca, or phone 514-933-2112.).

For members who might be interested in leading a CSSE paper, there is a procedure to follow, available by contacting **Andy Jones** at andyjones@explornet.com.

The CSSE Website: www.seniorengineers.ca

By **Andy Jones**

The CSSE web site continues to grow and improve. However, it is only as successful as the information that is placed there. If you have a photo of a project you worked on and think it would be of interest to others send it to andyjones@explornet.com. The same with if you know of something a CSSE member has done that can be entered into "members spotlight". The French version is now available at <http://seniorengineers.ca/scis/> and I'm looking for edits and corrections.

Correspondence with the CSSE Administration Office

All "snail-mail" correspondence, including cheques, and enquiries, should be sent to:

The Canadian Society
of Senior Engineers
464 Briar Avenue
Ottawa, Ontario
K1H 5H6

administrator@seniorengineers.ca

Phone calls: 613-890-9363

Dues and donations can be paid securely by credit card by going to the "Members" page at the CSSE website www.seniorengineers.ca

Changed Your Coordinates?

If you have a new mailing (or emailing) address, please inform the CSSE Administration Office and the CSSE Newsletter Editor **Arnold Eyre** arnoldeyre@outlook.com

From Sea to Sea to Sea ... Current and Coming Events

MARITIMES (Contact: **Dan MacDonald**, danm@cbcl.ca)

QUEBEC PROVINCE (Contact: **Jean-Guy René**, jg.rene@sympatico.ca)

MONTREAL (Contact: **Bill Altimas**, waltimas@hotmail.com or **Bill Matthews**, williammatthews777@me.com) The Montreal group meets at the Manoir Resto in Pointe Claire on the first Monday of each month for lunch. Also, at The Royal Saint Lawrence Yacht Club (The RSLYC) in Dorval, Quebec, at lunch: **Wed. Jun. 13.** Integrated Water and Power Resource Planning in Saudi Arabia, The Technical, The Institutional, The Practical and the Politics. (**Willy Kotiuga**, Director at SNC Lavalin and Power Planning and Strategy Expert)
Wed., Sep. 19 (tentative) The International Joint Commission (IJC), Its History and Selected Cases of Trans-boundary Canada/US Water Issues. (**Murray Clamen**, Adjunct Professor, McGill University)

ONTARIO (Contact: **Jon Jennekens**, jonorah@rogers.com)

THE GREATER OTTAWA AREA (Contact: **Tony Thatcher**, jathat@rogers.com)

The Ottawa Chapter (known to several members as "The Old Farts") meets at The KS Restaurant on Daze Ave., south of Southgate Shopping Mall, usually on the 3rd Monday of the month, at 11:30 for lunch at 12:00 and a speaker.

May. 21. A New Mini Ice Age - Is it Possible? (**Michael King**)

Jun. 18. I-900 Submarine (**Mike Taylor**)

THE GREATER TORONTO AREA (Contact: **Jon Jennekens**, jonorah@rogers.com)

MANITOBA (Contact: **Dave Ennis**, ns2@mymts.net)

The Manitoba chapter meets in the "Engineers Geoscientists Manitoba" offices

SASKATCHEWAN (Contact: **Pieter Van Vliet**, p.vanvliet@sasktel.net)

ALBERTA (Contact: **Fred Otto**, fotto@interbaun.com)

CALGARY (Contact: **Chan Wirasinghe**, wirasing@ucalgary.ca)

EDMONTON (Contact: **Nick Malychuk**, nmaly@telus.net)

The Edmonton Chapter meets at Chateau Louis Conference Centre, 11727 Kingsway on the 3rd Thursday of the month, at 11:30 a.m., with a buffet lunch at 12:00, followed by a speaker.

May 17. Historical Reflections on Transportation in Western Canada - Stories, photos and vignettes 1870 - 1930. (**John McDougall**)

Jun. 21. (Topic to be announced) (**Tristin Hopper**)

BRITISH COLUMBIA (Contact: **Ken Putt**, kwputt@shaw.ca)

VANCOUVER (Contact: **Aidan Gordon**, aidan@gordoncrane.com)

The Vancouver chapter normally meets at 11:45, on the first Thursday each month at the Sutton Place Hotel, Burrard Street. (3-course lunch. Cost: Members \$45.00, guests \$50.00.)

VANCOUVER ISLAND (now known as the Vancouver Island Engineering Society - VIES) (Contact: **Robin Black**, robinblack@shaw.ca)

The Vancouver Island chapter gathers for lunch at 11:30 A.M., on the first Friday (adjusted for holidays) September through June, at The Oak Bay Recreation Centre, Victoria. Please link to www.viengsoc.ca for current activities and events, or secretary@viengsoc.ca for specific enquiries.

May 4. Smarter Cities - How to Get There from Here. (**Jacques van Campen**)

Branch Reports

Calgary Branch Report, 2018 Mar 31

Submitted by Chan Wirasinghe

The Calgary Branch had its first meeting on January 29, 2018.

Subsequent to the short meeting, the group was hosted to lunch by Dean **Bill Rosehart** of the Schulich School of Engineering. Dean Rosehart gave a presentation on his vision for the School which was followed by a Q/A session.

Subsequently the Dean conducted a tour of the new CNRL Engineering Complex (G-Wing of the Schulich School.)

Manitoba Report, 2018 Apr 08

Submitted by Dave Ennis

Since the 2017 meeting the Manitoba contingent has held eight lunch time events with attendance of 25 to 35 attendees. We are especially grateful to Engineers Geoscientists Manitoba and its support and facilitation of those events.

We feel that the such events build awareness of the organization and are pleased that membership has increased by 80% to now 27 in a province that is 4% of Canada's population. The members look forward to the outcomes of the 2018 AGM leading to rationalization and clarity of purpose (vision) and operational accomplishment of a realistic and achievable mission.

Ottawa Branch Report, 2018 Apr 10

Submitted by Jon Jennekens

INTRODUCTION

Since the establishment of the Canadian Society of Senior Engineers, the Montreal and Ottawa Branches have closely supported each other's activities often by direct local participation in meetings and initiatives resulting therefrom despite the physical distance between their residences. Happily, this mutually beneficial cooperation continues.

During recent years, the Montreal and Ottawa Branches have prepared reports regarding "infrastructure". The first report* was drafted by an advisory group consisting of five members of the Montreal Branch under the chairmanship of past CSSE-SCIS president **Jean-Guy René**. It was prepared in the broad context of Canada's national endeavors. The second report** was prepared by members from both Branches, again under the chairmanship of **Jean-Guy René**. It was specifically directed at the need for CSSE-SCIS members to reflect on our Society's existing governance, to assess and evaluate possible alternatives and to recommend actions needed to address the reality of the declining membership of our Society.

CSSE-SCIS membership has declined from 225 in 2012 to less than 150 in 2018 (still to be confirmed).

The Montreal and Montreal-Ottawa Branch reports have been set aside due to the action, or more correctly, the inaction of some directors and have gathered dust since, after delay, they were eventually distributed to Directors.

Fortunately, thanks to the initiative of president-elect **Suzelle Barrington** (Fellow 2015), to assist past president **Ron Britton** in preparing a report on the status of recommendations to restructure our Society's governance it is somewhat reassuring that members might be presented with some meaningful advice.

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Branch Reports ... Continued

OTTAWA BRANCH ACTIVITIES

Members of the Ottawa Branch meet during the third Monday of the month, January to November. The meetings begin at 11:30 a.m. with hellos, small group updates, lunch during which a guest speaker presents a seminar on a matter of engineering achievement, historical importance or current geo-political/geo-economic interest. Our attendance ranges between 15 and 22 and is invariably weather-dependent. The meetings close at about 2:00 p.m.

Seminar Schedule: September 2017 to June 2018.

- September 2017 Engineers Without Borders **Boris Martin**, Chief Executive Officer
- October 2017 Budapest Water Summit 2016 **Bill Altimas**, Montreal Branch
- November 2017 An Overview of In-flight Icing of Aircraft **Richard Kind**, Ottawa Branch
- January 2018 Building the Panama Canal **Mike Taylor**, Ottawa Branch
- February 2018 Engineering a Better Canada **Arnold Eyre**, Ottawa Branch
- March 2018 The Silk Road **Drew Wilson**, Ottawa Branch
- April 2018 A Canadian Success Story: Pratt & Whitney Canada PT6 turboprop engine (currently in service with more than 6,500 aircraft operators in over 170 countries) **Bob Mather**, Ottawa Branch
- May 2018 A New Mini Ice Age - is it Possible? **Michael King**, Ottawa Branch
- June 2018 The I-400 Submarine (Japan) **Mike Taylor**, Ottawa Branch

CANADA WIDE SCIENCE FAIR

The 2018 Canada Wide Science Fair will be held at Carleton University on May 14. Ottawa Branch members **Bob Mather**, **Dick Kind***** and **Richard Lovatt** will be serving as judges >>> a day-long assignment <<<. This is the third time since 2010 that Ottawa has hosted the Fair. **Bill Altimas**, Montreal Branch, has served as a principal coordinator.

IN MEMORIAM

The Montreal and Ottawa Branch members were saddened by the loss of two outstanding engineers, **Tom Madanda** (Beaconsfield, QC) and **Dan Meneley** (Lakefield, ON).

Tom became a member of our Society in 2000. He was elected a Fellow in 2011 and served as President of the Montreal Branch despite serious ill-health. **Tom** and his dear wife **Meena** regularly attended CSSE-SCIS AGM's across Canada. Their soft-spoken humor enriched our dinner meetings.

Dan and **Millicent (Milli) Meneley** retired to a lake-country home in Lakefield, Ontario, a four hour drive from Ottawa. **Dan** often drove to Ottawa to attend our meetings. In his field of expertise, **Dan** explained that the word unclear, with appropriate interchange of letters, becomes nuclear. He sought to explain the many benefits of the peaceful applications of nuclear energy, diagnostic and therapeutic nuclear medicine, low cost nuclear-electric power ... In recent years, **Dan** served until his death as an adjunct professor at the University of Ontario Institute of Technology (UOIT), located in Oshawa, Ontario.

* "Our Main Infrastructure Works - Whose Responsibility?"

** "Restructuring the Canadian Society of Senior Engineers."

*** **Richard Kind** is a retired Professor (Emeritus) of Carleton University.

Branch Reports ... Continued

Vancouver Island Branch of the Member Societies of the Engineering Institute of Canada (including the Canadian Society of Senior Engineers) 2017/18 Branch Report

NOTE FROM THE CHAIR

During the fiscal year of 2017-2018 the Vancouver Island Branch (VIB) of the CSSE undertook a rebranding exercise to reach out to the next generation of senior engineers to develop a viable future for the society. As the legal name reflects the long history of this branch including the initial founding of the VIB EIC in the 1980's which also led to the formation the Scholarship Society of the VIB EIC and eventually joining with the CSSE to become the VIB EIC / CSSE. During this journey regular membership encompassed senior engineers from all these groups. In addition, a group of senior engineers also founded the UVic Engineering Associates which was an extension of the Engineering Faculty. This group provided a wide range of assistance to the Dean in the early stages of the engineering faculty. As the faculty grew rapidly the potential impact of this group was reduced and it eventually blended in with the VIB EIC / CSSE Branch. The scholarship society also retrenched and its oversight is the responsibility of the local branch along with the Victoria Foundation and UVic. To simplify all this it was decided to rebrand the local branch as the Vancouver Island Engineering Society (VIES) which reflects the mandate and role of the original EIC Branch. As such the By-Laws have not been changed significantly as they provide the scope to operate in the interest of all the founding groups.

Meetings:

On the first Friday of each month a Speakers Series lunch is held (Oct - May) at the Oak Bay Recreational Center averaging 40-50 attendees. This is significant as almost half of the attendees are new to the society in the past 2 years. In general we expect 25 continuing members, 10 new practicing engineers, 5 UVic faculty and students, 5 non-engineering guests. The December meeting is held in collaboration with the Victoria Chapter of EGBC and other meetings are partnered with EIC affiliates where possible. The speaker series is planned each spring with high level speaker of general interest to the engineering community.

Special events are planned 1-2 times per year, usually one with UVic. These tend to be separate from the monthly meeting and may be held at a separate venue. This year, Canadian astronaut Dr. **Bjarni Tryggvason** made a special presentation to the aerospace student clubs and had laboratory tours at UVic.

Speakers' Series

This year a speaker series was developed to broaden the reach of Chapter, an absolutely critical contribution in the long-term viability of the Society.

06 October 2017

Dr. **Tom Tiedje**, Professor of Electrical and Computer Engineering, and Dean of Engineering

Presentation: Building the Faculty of Engineering to better serve the local community and the country.

03 November 2017

Mr. **Tim Flat** CD, Lt Cdr (ret.)

Presentation: CFB Esquimalt Major Capital Project Overview

01 December 2017

Mr. **Jamie Sawchuk**, a partner in Deloitte Canada consulting practice and Deloitte's Public Sector Leader in BC. Jamie leads Deloitte's BC Innovation Practice, is on Deloitte's National Innovation, Disruption and Exponential

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Branch Reports ... Continued

Technologies Council, and a member of Deloitte's Global Innovation Leadership team.

Presentation: Bold Bets for Our Country - **Jamie** explored the pivotal role bold decisions & actions will play in deciding the future of Canada and the critical role BC must play.

05 January 2018

Mr. **Martin Poulin** M.Eng., P.Eng., Manager, Biomedical Engineering - Vancouver Island Health Authority

Presentation: The Technology in the North Island Hospitals - The challenge of implementing these into the VIHA system

19 January 2018 (A special event co-hosted with UVic)

Dr. **Bjarni Tryggvason** B.Ap.Sc., D.Sc.

Presentation: Experiences as an Astronaut, Test Pilot and Heritage Aircraft Flying

02 February 2018

Mr. **Macdonald "Mac" Evans** - Past President of the Canadian Space Agency

Presentation - Canada's Space Program

02 March 2018

Jacqueline Weston P.Eng, M.ASc, CPM

Presentation: CRD Waste Water Treatment Project - update 2018

06 April 2018

Dr. **Jamie King** B.Sc., M.Sc., Ph.D.

Presentation: Quantum Computing - the Background and the Future

04 May 2018

Mr. **Jacques van Campen** P. Eng.

Presentation: Smarter Cities - How to Get There from Here

04 May 2018

EIC / CSSE VIB Chapter AGM to follow presentation

University of Victoria:

VIES has continued the tradition of organizing and judging Co-op report awards for engineering students. The Co-op Office nominates 5 - 8 papers which are adjudicated by 3 senior engineers. The awards are sponsored by CAMP 23 of the Corporation of Seven Wardens (Iron Ring) and the Victoria Chapter of IEEE. These awards recognize excellence in communications, professionalism and impact for the client. The students are recognized at one of our monthly meetings where they are presented with a plaque and award cheque for \$300. In addition, the Branch sponsors 2 x \$2,000 annual scholarships to accomplished financially needy engineering students which are funded by our Endowment Fund at the Victoria Foundation together with ongoing contributions by our members directly to our Scholarship Fund at UVic. These scholarships are awarded to UVic engineering students who attended Vancouver Island secondary schools, have demonstrated academic excellence, enterprise and leadership but would benefit by the financial support. The winners are also recognized at one of our monthly meetings. These awards build personal contacts with senior engineers and our Branch.



Branch Reports ... Continued

Infrastructure and communications:

To support this higher level of activity, VIES has created a website www.viengsoc.ca with the volunteer assistance of a UVic Engineering PhD student, **Babak Manouchehrinia**. This has allowed us to support registration, post newsletters and announcements, and provide automatic confirmation of registration. The site hosts an active calendar of events which is open to other EIC affiliates and UVic to post meetings. We have a Secretariat which provides supporting materials for each event and manages the luncheon venue relationship as well as finances.

Dr. **Robin Black** Ph.D., P.Eng. (AB-ret.)
Secretary/Treasurer VIB EIC/CSSE (VIES)