



**THE CANADIAN
GEOTECHNICAL SOCIETY**

**LA SOCIÉTÉ CANADIENNE
DE GÉOTECHNIQUE**

2022

Annual Report / Rapport annuel

**(July 1, 2021 to June 30, 2022,
with some more recent information)**

Table of Contents

2022 Awards and Honours	3
Board of Directors	6
President's Annual Report	9
Vice-President Technical Annual Report	10
Vice-President Finance Annual Report	13
Vice-President Communications and Member Services Annual Report	15
Young Professional Representative Annual Report	18

SECTION REPORTS

Sections Representative Annual Report	20
Vancouver Island BC (Victoria)	22
Southern BC (Vancouver)	24
Northern BC (Prince George)	25
Interior BC (Kelowna)	27
Northern Alberta & Territories (Edmonton)	30
Southern Alberta (Calgary)	32
Northern Saskatchewan (Saskatoon)	34
Southern Saskatchewan (Regina)	36
Manitoba (Winnipeg)	37
Northwestern Ontario (Thunder Bay)	40
Northeastern Ontario (Sudbury)	42
Southwestern Ontario (London)	43
Southern Ontario (Toronto)	45
Southeastern Ontario (Kingston)	47
Eastern Ontario (Ottawa)	49
Ouest-du-Québec / Western Québec (Montréal)	50
Est-du-Québec / Eastern Québec (Québec)	51
New Brunswick (Fredericton)	53
Nova Scotia (Halifax)	54
Newfoundland & Labrador (St. John's)	56

DIVISION REPORTS

Divisions and Committees Representative Annual Report	58
Cold Regions Geotechnology Division	60
Engineering Geology Division	62
Geoenvironmental Division	63
Geosynthetics Division	65
Groundwater Division	66
Rock Mechanics Division	68
Soil Mechanics and Foundations Division	71

COMMITTEE REPORTS

Education Committee	72
Heritage Committee	73
Geohazards Committee	75
Mining Geotechnique Committee	77
Professional Practice Committee	78
Sustainable Geotechnics Committee	81
Transportation Geotechnique Committee	83
Membership Committee	84
Young Professional Committee	86

OTHER REPORTS

Geotechnical Research Board	88
Canadian Geotechnical Journal	89
CGS News	89

CANADIAN GEOTECHNICAL SOCIETY - AWARDS AND HONOURS 2022

R.F. Legget Medal	Robert Chapuis
G. Geoffrey Meyerhof Award	Rob Kenyon, Ken Skaffeld
Thomas Roy Award	Pete Quinn
Roger J.E. Brown Award	Earl Marvin De Guzman, Marolo Alfaro, Guy Doré, Lukas Arenson, Aaron Piamsalee
Geoenvironmental Award	Catherine Mulligan
Robert N. Farvolden Award	René Therrien
(Joint award with IAH-CNC)	
Geosynthetics Award	Mohamed Meguid
Early Achievement Award	Rajib Dey
A.G. Stermac Awards	Vincent Castonguay Andrew Drevininkas Ariane Locat Masoud Manzari Harry Oussoren
CGS R.M. Hardy Keynote Address	Jocelyn Hayley
Canadian Geotechnical Colloquium	Nicholas Beier
Cross Canada Lecture Tours	Doug Stead (Spring 2022) Catherine Mulligan (Fall 2022)
R.M. Quigley Award (from the CGJ)	Ali Akbar Karimzadeh, Anthony Leung, Saied Hosseinpour, Zhaoyi Wu, Pedram Fardad Amini Title: <i>Monotonic and cyclic behaviour of root-reinforced sand</i>
Honourable Mentions	Vincent Boulanger-Martel, Bruno Bussière, Jean Côté <i>Thermal behaviour and performance of two field experimental insulation covers to control sulfide oxidation at Meadowbank mine, Nunavut</i> Gang Zheng, Yawei Lei, Xuesong Cheng, Xiyuan Li, Ruozhan Wang <i>Experimental study on the progressive collapse mechanism in the braced and tied-back retaining systems of deep excavations</i> Chao Shi, Yu Wang <i>Non-parametric and Data-driven Interpolation of Subsurface Soil Stratigraphy from Limited Data using Multiple Point Statistics</i>
Graduate Student Presentation Award	
1st Prize	Bruce Gee
2nd Prize	Lisa Tauskela
Undergraduate Student Report (Individual)	
1st Prize	Frances Hallen
2nd Prize	Henry Gage
Undergraduate Student Report (Group)	
1st Prize	Paul Brezanoczy Edwards, Christian Valerio, Matthew Weiss
2nd Prize	Killian Bell, Kenneth Lemieux, Kelly Lowry, Marco Maggioni, Liam Sickinger, Davis Stambolich
Canadian Foundation for Geotechnique Michael Bozozuk National Graduate Scholarship	
Heidi Cossey	

Dennis Becker Canadian Foundation for Geotechnique M.Sc. Student Award
Abigail Paul

Awards From Engineering Institute of Canada (EIC)

K.Y. Lo Medal Jean-Pierre Tournier
John B. Stirling Medal Dharma Wijewickreme
CPR Engineering Medal Craig Lake

Fellowship of the Institute (FEIC) Jim Oswell
Fellowship of the Institute (FEIC) Leo Rothenburg
Fellowship of the Institute (FEIC) Brian T. Rogers

LA SOCIÉTÉ CANADIENNE DE GÉOTECHNIQUE – PRIX ET DISTINCTIONS 2022

Médaille R.F. Legget Robert Chapuis

Prix G. Geoffrey Meyerhof Rob Kenyon, Ken Skafffeld
Prix Thomas Roy Pete Quinn
Prix Roger J.E. Brown Earl Marvin De Guzman, Marolo Alfaro, Guy Doré, Lukas Arenson, and Aaron Piamsalee
Prix géoenvironnement Catherine Mulligan
Prix Robert N. Farvolden René Therrien
(Prix conjoint avec l'AIH-SNC)
Prix sur les géosynthétiques Mohamed Meguid

Prix d'excellence en début de carrière Rajib Dey

Prix A.G. Stermac Vincent Castonguay
Andrew Drevininkas
Ariane Locat
Masoud Manzari
Harry Oussoren

Allocution d'ouverture R.M. Hardy Jocelyn Hayley
Colloquium canadien de géotechnique Nicholas Beier
La Tournée de conférences transcanadienne Doug Stead (printemps 2022)
Catherine Mulligan (automne 2022)

Prix R.M. Quigley (remis par la RCG) Ali Akbar Karimzadeh, Anthony Leung, Saied Hosseinpour, Zhaoyi Wu, Pedram Fardad Amini
Title: *Monotonic and cyclic behaviour of root-reinforced sand*

Mentions honorables Vincent Boulanger-Martel, Bruno Bussière, Jean Côté
Thermal behaviour and performance of two field experimental insulation covers to control sulfide oxidation at Meadowbank mine, Nunavut
Gang Zheng, Yawei Lei, Xuesong Cheng, Xiyuan Li, Ruozhan Wang
Experimental study on the progressive collapse mechanism in the braced and tied-back retaining systems of deep excavations
Chao Shi, Yu Wang
Non-parametric and Data-driven Interpolation of Subsurface Soil Stratigraphy from Limited Data using Multiple Point Statistics

Prix pour étudiant gradué
1st Prize Bruce Gee
2nd Prize Lisa Tauskela

Prix pour étudiant de premier cycle (présentation individuelle)

1st Prize Frances Hallen

2nd Prize Henry Gage

Prix des étudiants de premier cycle (présentation de groupe)

1st Prize Paul Brezanoczy Edwards, Christian Valerio, Matthew Weiss

2nd Prize Killian Bell, Kenneth Lemieux, Kelly Lowry, Marco Maggioni, Liam Sickinger, Davis Stambolich

Bourse nationale pour études supérieures Michael Bozozuk de la Fondation canadienne de géotechnique

Heidi Cossey

Prix Dennis Becker pour les étudiants à la maîtrise de la Fondation canadienne de géotechnique

Abigail Paul

Prix et distinctions de l'institut canadien des ingénieurs (ICI)

Médaille K.Y. Lo Jean-Pierre Tournier

Médaille John B. Stirling Dharma Wijewickreme

Médaille du chemin de fer Canadien Pacifique Craig Lake

Fellow de L'ICI Jim Oswell

Fellow de L'ICI Leo Rothenburg

Fellow de L'ICI Brian T. Rogers



**CANADIAN GEOTECHNICAL SOCIETY
SOCIÉTÉ CANADIENNE DE GÉOTECHNIQUE
BOARD OF DIRECTORS / CONSEIL DE DIRECTION**

**2022 BOARD OF DIRECTORS, OTHER POSITIONS AND NATIONAL OFFICE
MEMBRES DU CONSEIL DE DIRECTION, DU BUREAU NATIONAL, ET PERSONNES OCCUPANT D'AUTRES
POSTES EN 2022**

Terms end December 31 in the year shown, unless otherwise indicated.

Les mandats se terminent le 31 décembre de l'année indiquée.

Executive Committee / Comité exécutif

<p>President / Président 2022 Ian Moore, P.Eng. president@cgs.ca / moore@civil.queensu.ca</p>	<p>Engineering Geology 2024 <i>Géologie de l'ingénieur</i> Andrew Peach, P. Geo. andrew.peach@hatch.com</p>
<p>Vice President Technical 2022 <i>Vice-président technique</i> Mamadou Fall vpotech@cgs.ca / mfall@uottawa.ca</p>	<p>Geoenvironmental 2023 <i>Géoenvironnement</i> Vincent Martin vincent_martin@golder.com</p>
<p>Vice President Financial 2022 <i>Vice-présidente aux finances</i> Andrea Lougheed, P.Eng. vpfinance@cgs.ca / alougheed@bgcengineering.ca</p>	<p>Geosynthetics 2023 <i>Géosynthétiques</i> Fady Abdelaal fady.abdelaal@queensu.ca</p>
<p>Vice President Communications & Member Services / Vice-présidente Communications et services aux membres 2022 Justyna Kos-Fairless, P.Eng. vpcomm@cgs.ca / kosfairless.justyna@syncrude.com</p>	<p>Rock Mechanics 2023 <i>Mécanique des roches</i> Jennifer J. Day, PEng, PGeo day.jennifer@queensu.ca</p>
<p>Young Professional Representative 2023 <i>Représentante des jeunes professionnels</i> Leanne McLaren, P.Eng. yprep@cgs.ca / lmclaren@thurber.ca</p>	<p>Soil Mechanics and Foundations 2023 <i>Mécanique des sols et des fondations</i> Laifa Cao, P.Eng. Laifa.Cao@wspgroup.com</p>
<p>Divisions and Committees Representative 2022 <i>Représentant des divisions et comités</i> Thomas Pabst, ing. t.pabst@polymtl.ca</p>	<p>Groundwater 2023 <i>Eaux souterraines</i> François Duhaime francois.duhaime@etsmtl.ca</p>
<p>Sections Representative 2022 <i>Représentant des sections</i> Wesley Saunders, P. Eng wsaunders@gkmconsultants.com</p>	<p>Section Directors Directeurs des sections</p> <p><i>Vancouver Island Geotechnical Group</i> 2023 Caleb H. Scott, P.Eng. cscott@thurber.ca</p>
<p>Division Chairs Présidents des divisions</p> <p>Cold Regions Geotechnology 2022 <i>Géotechnologie des régions froides</i> Ryley Beddoe ryley.beddoe@rmc.ca</p>	<p><i>Vancouver Geotechnical Society</i> 2023 Marc Bossé, P.Eng. mbosse@thurber.ca</p>

Prince George Geotechnical Group Warren Lemky, P.Eng. warren.lemky@gov.bc.ca	2022	Section régionale Est-du-Québec Eastern Québec Vincent Castonguay vincent.castonguay.consultant@gmail.com	2024
Interior BC Section Dwayne Tannant, P.Eng. dwayne.tannant@ubc.ca	2022	New Brunswick Section Christopher McQueen, P. Eng. Christopher.McQueen@englobecorp.com	2022
Calgary Geotechnical Society Kshama Roy, Ph.D. kshama.roy@northerncrest.ca	2023	Nova Scotia Section Iliia Wainshtein, P.Eng. ilia.wainshtein@woodplc.com	2022
Geotechnical Society of Edmonton Ken Froese, P.Eng. kfroese@thurber.ca	2023	St. John's Section Shawn Russell shawn.russell@gemtec.ca	2024
Saskatoon Geotechnical Group Bryce Marcotte, P.Eng. bmarcotte@srk.com	2024	<i>Editor, Canadian Geotechnical Journal</i> <i>Editeur en chef, Revue canadienne de géotechnique</i> Greg Siemens, P.Eng. siemensg@queensu.ca	
Regina Geotechnical Group Kyle Mason, P. Eng. KMason@bgcengineering.ca	2022	<i>Editor, CGS News in Canadian Geotechnique 2021</i> <i>Directeur de rédaction des Nouvelles de la SCG dans Géotechnique canadienne</i> Nicholas Beier, P.Eng. nabeier@ualberta.ca	
Manitoba Section David Kurz, P.Eng. dkurz@kgsigroup.com	2022	<i>Representative of CSCE on CGS Board June 2022</i> <i>Représentant de la SCGC sur le Conseil de la SCG</i> Brenda McCabe, P. Eng. brenda.mccabe@utoronto.ca / president@csce.ca ;	
Thunder Bay Section Wesley Saunders, P. Eng wsaunders@gkmconsultants.com	2022	Chairs of Committees Présidents des Comités <i>Education Committee</i> 2022 <i>Comité sur l'éducation</i> Pooneh Maghoul, P. Eng. Pooneh.Maghoul@umanitoba.ca	
Sudbury Section André Bom, P. Eng. Andre_Bom@golder.com	2022	Geohazards Committee 2022 <i>Comité sur les géorisques</i> Scott McDougall, P.Eng. smcdouga@eoas.ubc.ca	2022
London Section Philips Aby philips.abby@exp.com	2024	<i>Heritage Committee</i> 2022 <i>Comité sur le patrimoine</i> Heinrich K. Heinz, P.Eng. HHeinz@thurber.ca	2022
Southern Ontario Section Charles Crans cgcrans@outlook.com	2024		
Kingston Section E. Maria Skordaki emskordaki@gmail.com	2022		
Ottawa Geotechnical Group Paul Simms, P.Eng. paul_simms@carleton.ca	2022		
Section régionale Ouest-du-Québec Western Québec 2022 Mourad Karray Mourad.karray@usherbrooke.ca			

Mining Geotechnique Committee 2022
Comité technique sur la géotechnique minière
Thomas Pabst, ing.
t.pabst@polymtl.ca

Professional Practice Committee 2022
Comité sur la pratique professionnelle
Seán Mac Eoin, P. Eng.
sean.maceoin@tetrattech.com

Sustainable Geotechnics Committee 2022
Comité sur la géotechnique durable
Catherine Mulligan, ing.
catherine.mulligan@concordia.ca

Transportation Geotechnique Committee 2023
Comité sur la géotechnique des transports
Harpreet Panesar, P.Eng.
Harpreet.Panesar@gov.sk.ca

Membership Committee 2022
Comité des membres
David Wood, P. Eng.
rockdoc.david@gmail.com

Geotechnical Research Board 2022
Conseil de la recherche en géotechnique
Greg Siemens, P.Eng.
siemensg@queensu.ca

President Elect / Président élu 2022
Robert Kenyon, P.Eng.
rkenyon@kqsgroup.com

CGS National Office / Bureau national de la SCG
2167 166 Street, Surrey, BC V3Z 0V6
Tel: 604 277 7527
info@cgs.ca

Executive Director / Directeur général
Michel Aubertin
ExecDir@cgs.ca ; DirGen@cgs.ca

Administrator / Administrateur
Karma-Link Management Services

Director, Communications and Society Operations / Directrice, Communications et opérations de la Société

Lisa Reny
admin@cgs.ca

Coordinator, Communications and Member Services / Coordonnatrice, Communications et services aux membres

Emily Fournier
efournier@cgs.ca

REPRESENTATIVES ON OTHER ORGANIZATIONS / REPRÉSENTANTS AUPRÈS D'AUTRES ORGANISATIONS

Representative to EIC Council / Représentant sur le Conseil de l'ICI
(CGS President /Président de la SCG)
Ian Moore, P.Eng.
president@cgs.ca / moore@civil.queensu.ca

Representative to CFES Council / Représentant sur le Conseil de la FCST
Imad Alainachi, P.Geo.
imad.alainachi@wsp.com

Representative to CSCE Board / Représentante sur le Conseil de la SCGC
(CGS President /Président de la SCG)
Ian Moore, P.Eng.
moore@civil.queensu.ca / president@cgs.ca

I am pleased to write this second annual report as CGS President and provide a summary of key developments over that past year, and the excellent ongoing status of the Society. Key achievements during this reporting period include the hybrid Canadian Geotechnical Conference in Niagara Falls, a return of the Cross Canada Lecture Tour and to in-person activity for many of our sections, divisions and committees, and ongoing work to complete the next edition of the Canadian Foundation Engineering Manual. I also want to thank all the people who have supported my Presidency, and who have maintained the outstanding engagement of members with the Society.

Congratulations to **Masoud Manzari** and his excellent Local Organizing Committee for the wonderful annual conference they hosted in Niagara Falls. Thanks also to **Lisa Reny**, **Emily Fournier**, and **Bill Reny** of Karma Link for their outstanding work on the conference. Special thanks to every member of the LOC, who arranged for the wonderful technical and social programs, workshops, and activities for students. Thanks also to the many corporate sponsors. It was energizing to celebrate the achievements of members at all levels of the society, from student prize winners to R.F. Legget medalist **Doug VanDine**. Conference highlights for me included the outstanding R.M. Hardy Lecture by **Mark Diederichs** and the excellent CGS Colloquium delivered by **Renato Macciotta**.

Huge thanks to **Mamadou Fall** (VP Technical), **Justyna Kos-Fairless** (VP Communications and membership services) and **Andrea Lougheed** (VP Finance) who have served the Society with exceptional dedication and effectiveness for the past eighteen months or so.

Under Mamadou's guidance, the Society saw the return of the Cross Canada Lecture Tour, with **Doug Stead** delivering acclaimed presentations across the country. Mamadou has also adjusted the schedule of the upcoming Lectures, to address the 30-month interruption to the CCLT caused by the pandemic. During Mamadou's term as VP Technical, **Rob Kenyon** and **Ken Skafffeld** have continued their excellent work editing the next Canadian Foundation Engineering Manual. At the time I am writing this report, all the chapters have been reviewed, revised and then sent to Canadian Science Publishing for copyediting, and the manual is on track to be ready to purchase over the next few months. Finally, an agreement has been signed with the Local Organizing Committee for the 2023 Conference scheduled for Saskatoon.

Another important technical achievement of the Society is the Canadian Geotechnical Journal, which continues to excel under the editorships of **Greg Siemens** and **Charles Ng**. The journal continues to enjoy very strong publication metrics and great engagement from scholars and practitioners in Canada and internationally.

Vice President **Justyna Kos-Fairless** has worked with the Membership Committee, chaired by **David Wood**, to initiate a membership drive, and to facilitate a continued uptake of in-person engagement with the Society; thanks to these efforts, CGS membership has returned close to the pre-pandemic levels. Other activities undertaken by Justyna included efforts on International Women's Day to highlight the impressive contributions of four of the female members of the Society, and oversight of the Society's E-News and of the magazine *Canadian Geotechnique*, which has continued to excel thanks to the outstanding efforts of CGS News Editor **Nick Beier**, Features Editor **Doug VanDine**, and Managing Editor **Lisa Reny**.

VP Finance **Andrea Lougheed** has been highly effective steering the finances of the Society, which includes engagement in activities like Conferences and the Contracts with Karma Link and the CFEM Editors and Publisher. This critical task has been particularly challenging due to the pandemic situation. Andrea has successfully addressed the financial investments needed to produce the CFEM update, and managed the controlled decrease in CGS assets to meet budgetary guidelines established in recent years. .

My thanks to other members of the Executive Committee including Local Section Representative **Billy Singh**, his replacement in 2022 **Wes Saunders**, **Thomas Pabst** the Divisions and Committees Representative, and Young

Professional Representatives on the EC, **Vincent Castonguay** and his 2022 replacement, **Leanne McLaren**. Given the importance of welcoming young professionals to the Society, the Board of Directors approved the creation of the new Young Professionals Committee in 2021. **Kshama Roy** has been appointed as the first Chair of the YP Committee and the executive membership of this committee has been populated during the first part of 2022. There are many activities that this group can undertake to increase interest in the Society and engagement with graduate students and other young Geotechnical Engineers and geoscientists

The Executive Committee and Board members and everyone in the society benefit a great deal from the wonderful guidance and support provided by our Executive Director, **Michel Aubertin**, **Lisa Reny** the Director of Communications and Society Operations, and **Emily Fournier** the Coordinator of Communications and Member Services. Thank you all!

My sincere thanks also to the other members of the CGS Board of Directors – the Directors and Chairs of our local sections and the Chairs of our technical Divisions and Committees, and the new Chair of the GRB, **Marolo Alfaro**. A special mention to **Jason Crowder**, **Amir Poshnejad**, and **Charles Crans** who hosted our meeting in the Spring with Michel Aubertin and a number of members of the Southern Ontario Section. This produced some action items including the need for ongoing efforts to communicate to all our members the important role and contributions of our National Office and of the many volunteers involved across the country. Those activities include support for the Annual CGS Conferences, for the Awards given to outstanding members, for our international affiliations with a range of organizations (ISSMGE, ISRM, IAEG, and so on), for the Cross Canada Lecture Tour, and the active engagement of many of our members in Technical Committees of those international organizations, and for Canadian teams bidding on specific national and international specialty conferences, to host those meetings at various locations across Canada.

Additional information is provided in summary reports from the VPs and other members of the EC. The CGS Annual Report, with contributions from all Board members will be made available to members on the web site later this Fall. Meanwhile, President Elect **Rob Kenyon** has identified his future Vice Presidents, who will be presented to the Board of Directors in October.

Finally, I thank **Daniel Bertrand**, **Justyna Kos-Fairless** and all members of the Local Organizing Committee who have been working hard to welcome us at the Calgary Conference.

Vice-President Technical Annual Report – Mamadou Fall

The main technical activities undertaken in the past year are summarized below.

Cross Canada Lecture Tour (CCLT)

The CCLT is a very successful program with the tour stops being highly sought after by the local sections. The CCLT has become nationally and internationally known and respected. The 2021-2022 LTCC plan has been reorganized due to COVID restrictions on both travel and public gatherings and a cancellation. CGS has decided to maintain CCLTs as in-person events. The following CCLT plan has been established and is now being implemented. The Spring/Summer 2022 speaker was Prof. **Doug Stead**, Simon Fraser University, BC. The Fall 2022 speaker will be Prof. **Catherine Mulligan**, Concordia University, QC. The Spring 2023 speaker will be Prof. **Steve Kramer**, University of Washington, USA. The Fall 2023 speaker will be Prof. **Hesham El Nagggar**, Western University, ON. The Spring 2024 speaker will be Prof. **Ellen Rathje**, University of Texas, USA. The Fall 2024 speaker will be Prof. **Jocelyn Hayley**, University of Calgary, AB. The Spring/Summer 2022 CCLT was well attended, very successful, and sold-out in many CGS local sections. The travel for these tours is funded by the Canadian Foundation for Geotechnique and the generous support of industry. The CGS wishes to thank everyone involved in planning, sponsoring and hosting of these talks every spring and fall.

First CGS National Online Geotechnical Lecture

The First National Online Geotechnical Lecture was held on November 3, 2021 at 18:00 ET. The guest lecturer was Prof. **Doug Stead** from Simon Fraser University. The lecture was very successful and well attended. 266 people attended live. Many positive comments were received from participants. The conference was recorded. The video was posted on the CGS secure member site.

Canadian Foundation Engineering Manual (CFEM)

- The preparation/production of the next version of Canadian Geotechnical Engineering Manual (CFEM 2022) is progressing.
- Rob Kenyon (RK) and Ken Skaffeld (KS) are the CFEM editors
- The CFEM 2021 will include 25 chapters. Four new chapters have been added compared to the previous CFEM version. There are over 75 members actively contributing to the various chapters; there is an active Senior Advisory Committee of 14 very senior and known members of our community, and there are over 30 external reviewers.
- The new chapters focus on Permafrost, Physiography and Geology of Canada, Groundwater Control, and Instrumentation.
- All chapters are completed and in production with CSP.
- There will be a special session in GeoCalgary 2022 to introduce CFEM 2022 and highlight the new additional chapters.
- The Spring 2023 issue of Canadian Geotechnique will be a special edition dedicated to the CFEM.
- The CFEM is scheduled to be published (tentatively) at the end of 2022.

Colloquium and Colloquium Lecture Series

The Colloquium Lecture Series is strong and active and has been show casing young emerging talents within CGS for decades.

- The 2021 Colloquium speaker at GeoNiagara 2021 was Dr. Renato Macciotta Pulisci from the University of Alberta. Dr. Pulisci has given the following Colloquium Lectures: for the (i) Manitoba CGS Section on Thursday, February 24, 2022 (virtual event). He has been invited to present his colloquium to the Edmonton in the Fall 2022 as well as to Regina and St-Johns (exact dates not yet determined). Dr. Pulisci intends additional CGS local Sections to offer his colloquium lecture in an in-person format.
- The 2022 Colloquium speaker will Dr. Nicholas Beier from the University of Alberta, as selected by the Geotechnical Research Board.
- The selection process for the 2023 CGS Colloquium has been completed. The name of the 2023 Colloquium Speaker to be announced at GeoCalgary 2022.

CGS/SCG Sponsored, Co-Sponsored and Supported Conferences

- **GeoNiagara 2021:** It was hosted by the CGS-Southern Ontario Section (GS-SOS). The conference was successful. 618 delegates and guests were in attendance (417 in person, 151 virtual) and 258 technical papers and 43 posters were presented, in addition to the keynote speakers and short courses. The final conference report has been submitted to CGS.
- **GeoCalgary 2022:** Planning is well underway, with plans for an in-person event. The LOC has been organizing monthly meeting. The technical program will include over 200 oral and poster presentations, as well as 4 short courses. The following CGS keynote lectures, special sessions, and networking events are planned: (i) 2022 RM Hardy Keynote Address: Dr. Jocelyn L. Hayley; (ii) 2022 Canadian Geotechnical Colloquium: Dr. Nicholas Beier; (iii) Professional Practice Special Sessions; (iv) Mining Geotechnique Special Session.

- **GeoSaskatoon 2023:** This will be a joint conference with the International Association of Hydrogeology, Canadian National Chapter (IAH-CNC) and the International Geosynthetics Society North America (IGS-NA). The LOC has been formed and is meeting regularly. Planning is underway.
- **Canadian Young Geotechnical Engineers Conference, (7) cYGEGC 2022:** It will be held in Calgary from September 20 to October 1, 2022. The program includes: 3-min Pitch, Poster, Keynotes, Technical Tours.
- **GeoMontreal 2024:** The first draft of the MOU has been completed and submitted to the conference chair for review and comment. We are now working on the final version of the MOU with the conference chair. Planning underway.
- **GeoManitoba 2025:** The proposal has been received and approved by the LOC.
- **8th Geohazards Conference:** The conference was held from June 12 to 15, 2022 in Quebec City. 5 invited speakers with papers attended the event; 67 papers were submitted and presented.
- **RockEng 2022:** The conference was held from August 8 to 10, 2022 in Kingston. It included 36 invited speakers, 32 poster presentations and Best Poster Award.
- **GI GeoCongress:** GI GeoCongress 2022 was held from March 20-23, 2022 in Charlotte, North Carolina. GI GeoCongress 2023 will take place in Los Angeles, from March 26-29, 2023. Registration will be opened on Oct. 5, 2022.

MOUs, Conference Report Review and Other Activities

- The review of the final report of Virtual GeoNiagara 2021 has been completed. The revised report has been submitted to CGS.
- The MOU for GeoSaskatoon 2023 has been finalized and signed.
- The 1st draft MOU for GeoMontreal 2024 has been finalized. The Chair of GeoMontreal 2024 is reviewing and discussing the MOU with the LOC.

Divisions and Committees

Activities have been significantly affected by the pandemic again as indicated in the reports submitted by the Divisions and Committees. However, Divisions and Committees have been organizing more regular online meetings and activities, and progressively returning to "normal life". Most Divisions and Committees have held several online meetings with their EC members over the past year and better communication with their active members.

CGS Local Sections

Most CGS Local Sections have remained active over the last year as shown in the reports submitted by the CGS Section Representative and Section Directors. Sections held an average of 6.8 events. The events consisted primarily of virtual online technical conferences due to regulatory restrictions related to the COVID-19 restrictions in place at the time, but some social and in-person events were able to be held. In general, collaboration between nearby sections continues to participate in online technical conferences.

Canadian Geotechnical Research Board (GRB) and Colloquium Lecture Series

The GRB chaired by Marolo Alfaro continued to promote research within the geotechnical community. The CGS 2021 Colloquium speaker at GeoNiagara 2021 was Dr. Renato Macciotta Pulisci from the University of Alberta. The 2022 Colloquium speaker at GeoClagary 2022 will be Dr. Nicholas Beier from the University of Alberta. The selection process for the 2023 CGS Colloquium has been completed. The name of the 2023 Colloquium Speaker to be announced at GeoCalgary 2023. The BRG has participated in the selection process of the Gzowski Medal (best paper award) of CSCE. BRG organized a webinar on NSERC Alliance Grants.

Canadian Geotechnical Journal (CGJ)

The CGJ continues to be an internationally recognized journal and an excellent resource for our members. The CGJ's 2-year impact factor is 4.167, while its 5-year impact factor is 4.754. Thank you to the Editors, the Associate Editors and the Paper Reviewers for an outstanding work, which continues the tradition of this world class journal.

Vice-President Finance Annual Report – Andrea Lougheed

Introduction

The following is a statement of the CGS finances for the period January 1 to June 30, 2022. Unless stated otherwise, all figures are in thousands (000s) of dollars.

Summary of Revenue and Expenses to June 30, 2022

Revenue to date are \$222.1K compared to \$241.9K for the same period in 2021. Membership due revenue is up \$10K, publication revenue is down \$2.5K, while sponsorship revenue is \$28.5K is lower than the same period in 2021. The reduction in publication revenue is likely related to anticipation around the publication of CFEM 2022. Corporate Sponsorship revenue is down due to sponsors not having been invoiced in the first half of 2022. Conference revenue was negligible for both the first half of 2021 and 2022.

Expenses paid in 2022 are \$194.8K compared to \$173.5K for the same period in 2021. The difference in expenses is largely due to an increase in society operation costs related to increased travel costs from the Executive Committee and YGEC Travel Award. Though there was the elimination of an in-person Executive Committee meeting in the spring.

Full Year 2022 Budget and Current Forecast (000s)

	FY 2021 Audited	2022			
		Budget	To June 30, 2021	Full Year Forecast	FY Forecast v Budget
<i>Membership Dues</i>	218.9	225.0	213.2	223.0	99%
<i>Publications</i>	17.5	10.0	6.7	13.5	135%
<i>Conferences</i>	3.3	30.0	0.1	5.0	17%
<i>Sponsorships</i>	29.0	30.0	0.0	22.8	76%
<i>Other</i>	3.7	5.0	2.0	3.5	70%
Total Income	272.4	300.0	222.1	267.8	89%
<i>Int'l. Memberships</i>	2.2	15.0	5.0	7.5	50%
<i>Conferences/CCLT</i>	4.2	9.0	4.9	14.9	166%
<i>Publications</i>	92.4	95.0	62.0	90.0	96%
<i>Staff Fees</i>	169.1	174.0	82.8	167.8	96%
<i>Society Operations</i>	55.5	60.0	36.5	56.5	94%
<i>New Initiatives</i>	1.0	5.0	3.5	3.5	70%

Miscellaneous	0	2.0	0.1	1.1	55%
Bad Debt	15.8	-	-	-5.0	-
Total Expenses	340.2	360.0	194.8	336.3	
Profit (Loss)	(67.8)	(60.0)	27.3	(68.5)	114%

Notes to Accompany Summary of Revenues and Expenses

Income

- First-half membership dues of \$213.2 k are the result of strong renewals from members. CGS had a total of 1286 active members on June 30, 2022 compared to 1155 active members for the same time period in 2021. We are forecasting an incremental \$1.8 K for the remaining 2021 fiscal year.
- Publication revenue from the 4th Edition Canadian Foundation Engineering Manual (CFEM) is lower than previous years and is a result of CFEM 2022 becoming available soon. To June 30, 2022, CFEM sales totaled 34 copies compared to 46 for the same period in 2021.
- GeoCalgary is targeting a balanced budget which means that no to minimal conference revenue is anticipated for 2022.
- Corporate sponsorship revenue is reduced compared to the 2021 fiscal year as companies have not been invoiced for 2022 as of June 30. The forecasted revenue is also reduced from 2021 considering unpaid invoices from several companies in 2021 resulting in "bad debt" under 2021 expenses. However, the Administration team is actively engaged in invoicing and collecting 2022 corporate sponsorship fees and pursuing collection of the unpaid 2021 invoices. The team is confident that a portion of the unpaid invoices will be collected and therefore, reduce the amount of bad debt sitting on the balance sheet. 2021 amounts collected in 2022 will be reflected as negative expenses on the P&L.

Expenses

- First half expenses related to international memberships, publication and staff fees are tracking similarly to 2021, while society operation, conferences/CCLT and new initiatives expenses are tracking higher than 2021.
- Society operations expenses and conferences/CCLT are forecasted to be on par with 2019 given the opening up of travel from Covid-19 that has resulted in higher travel expenses.
- New initiatives spending for 2021 includes the gold sponsorship for the CGS YP Conference (\$3.5K).

Balance Sheet as of June 30, 2022 (000s)

Assets	Cash (chequing & savings)	\$ 244.3
	Restricted Funds	\$ 52.4
	Accounts Receivable	\$ 21.6
	Loans to CFG	\$ 335.0
	Seed Funds	\$ 55.0
	CFEM 2022	\$ 51.1
	Fixed Assets	\$ 0.1
Total Assets		\$759.5

Liabilities	Accounts Payable	\$ 33.5
	GST / HST Paid & Payable	-\$ 3.6
	Accrued Liabilities	\$ 9.0
	Flowthrough Payables	\$ 50.8
	Education Committee - Restricted	\$ 4.8

Total Liabilities		\$ 94.5
Equity	Retained Earnings	\$ 585.2
	Restricted Funds	\$ 52.4
	Profit for the Year	\$ 27.4
Total Equity		\$ 665.0
Total Liabilities & Equity		\$ 759.5

Notes and significant factors impacting the Balance Sheet

- Outstanding Seed Funds:
 - GeoCalgary: \$20 K
 - GeoSaskatoon: \$20 K
 - GeoHazards 8: \$ 8 K
 - CGS YP Conference: \$7 K
- Loan Investment in CFEM 2022:
 - \$51.1 K payments to the CFEM coordinator and Canadian Science Publishing
- Restricted Funds Breakdown:
 - Geohazards: \$ 10.2 K
 - Soil Mechanics: \$ 2.4 K
 - Cold Regions: \$ 12.8 K
 - Education Committee: \$ 18.2 K
 - Engineering Geology: \$ 8.8 K

Vice-President Communications and Member Services Annual Report – Justyna Kos-Fairless

Section 1: General

Date of report: August 11, 2022

Prepared by: Justyna Kos-Fairless, VP Communications and Member Services

End of Term: December 2022

Section 2: Membership

The Membership Committee (MC), chaired by David Wood since January 2020, continued to meet virtually on a monthly basis throughout the year. We had a member leave on maternity and a new member joined in lieu, keeping the core team at 5 members.

The MC continued to work on the goals established in 2021:

- Understand and market the value of being a CGS member
- Promote and encourage volunteering
- Improve communication and be closer to our members
- Encourage Young Professionals to become and/or stay CGS members
- Increase conversion of local members to national members
- Increase the number of new members

In alignment with those goals, the Section Representative (WS) and the chair of the newly formed Young Professionals (YP) Committee (KR) started attending the meetings in the spring to provide valuable perspective from their members and look at opportunities to convert local members into national members and look for synergies.

The YP committee was stood up in January 2022 and building momentum since then. The committee has currently 10 diverse members, from a geographical, gender and background perspective. The committee has drafted its mission and vision statement and has started holding regular meetings.

One of the joint initiatives that was explored with the local sections was the appetite for launching a mentoring program for CGS members. This is viewed as highly desirable by the YP committee but did not get a lot of excitement amongst the local section. We are recommending this is explored further as it could be a significant motivator for YP to join CGS and for student members to remain CGS members.

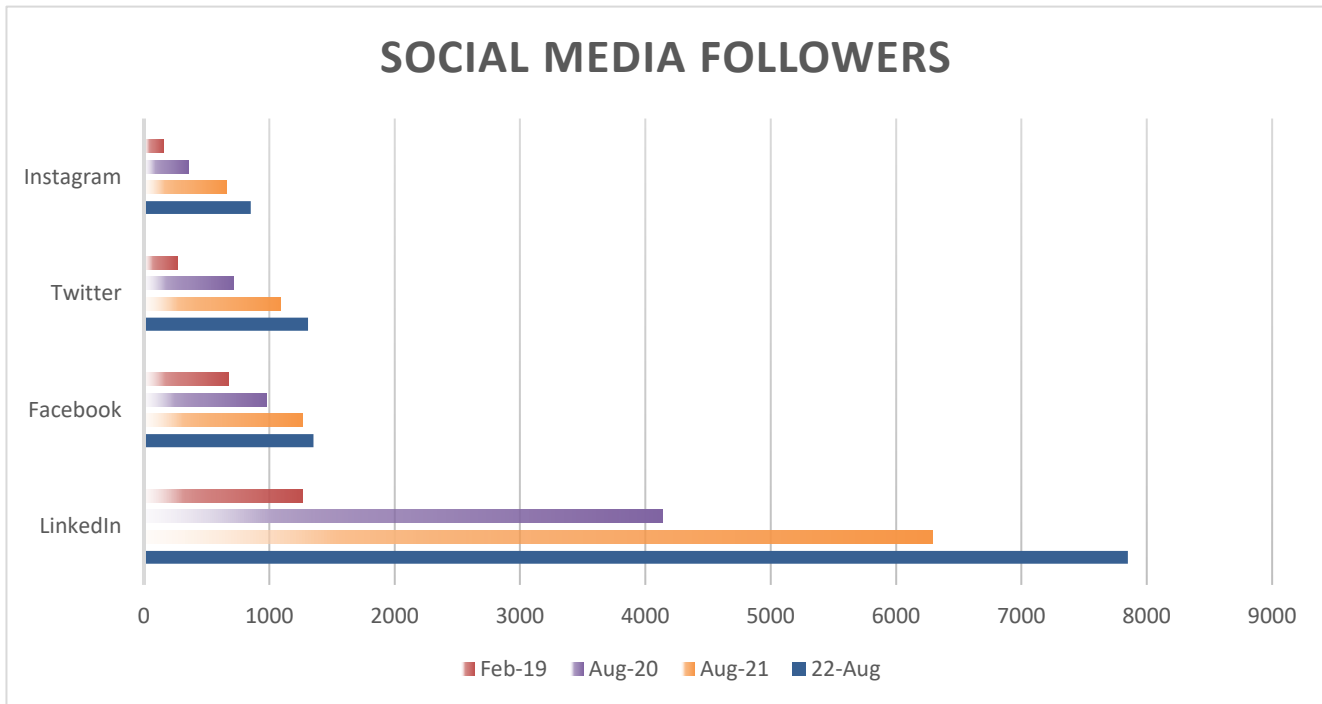
With the intent of increase the number of new members, we have launched a campaign to incentivise current members to bring in new national members (not active members since 2019) by offering current members a \$50 gift certificate from www.giftcertificates.ca. This initiative resulted in 5 new memberships as of June 30, 2022. Although launched to celebrate the 50th anniversary of CGS, we are recommending keeping this initiative for another year.

There are 1,243 active members as of June 30, 2022, which is an increase of 4% (51 members) compared to the same time last year and is consistent with the average number of members between 2008 and 2014. As a reminder, in 2014 we started offering free membership to conference attendees, which increased the number of members by an average of 18%. This program was not offered in 2020 because of the low registration fee for GeoVirtual and GeoNiagara had a lower in person attendance than previous conferences due to continuous COVID-19 concerns, which means that our current numbers are well in line with, if not exceeding, our past performance.

The Membership committee will hold a special in-person meeting during the GeoCalgary 2022 conference to give the opportunity to attendees to meet the committee, ask questions about CGS membership, discuss volunteering opportunities and network. It will be an open-house format with the intent to create some engagement amongst members. Exact time and date will be confirmed closer to the date of the conference. The plan is to hold it as an annual event, with a virtual event scheduled around March to provide a bi-annual opportunity for members to connect.

Section 3: Communication

The E-News were issued every month in the past year and continue to be an effective communication tool, with an average of 50% open rate, with slightly lower % in December and the summer months. This is significantly above the industry average of 23%.



Social media followers continued to increase throughout the year, especially for LinkedIn and Instagram, which saw an increase of 25% and 30% respectively. LinkedIn continues to be the most popular with 7,850 followers to date. In order to continue to increase followers and provide relevant and regular content it was decided that CGS will only have one social media account and post on behalf of all the Divisions and Committees.

To celebrate International Women in Engineering Day on June 23rd, JK and AL once again conducted interviews with 4 prominent CGS female members. Their stories were shared on social media as well as in an article posted on the CGS website. The women chosen this year were Pooneh Maghoul, Suzanne Ouellette, Jennifer Day and Aditi Khurana. These women were selected based on their active engagement with the Society and not having previously received significant recognition. The intent is to continue this tradition going forward.

A request was received from the Divisions and Committees to amend the CGS communications policies and allow Divisions and Committees to send their own email communications. The EC has decided against this proposal due, among other things, to concerns with diluting the existing E-News and potential for lack of French content. This was shared with the Divisions and Committees on July 11th.

Section 4: Website

Looking at the google analytics data between July 1st, 2021 and June 30th, 2022, the CGS website had 30,618 users visit its pages, which represents a 6.3% increase compared to the previous year. 12% were returning visitors and about 11% logging into the Member's site. Some of the top pages visited are the Canadian Foundation Engineering Manual, Canadian Geotechnical Journal and Calendar of Events.

Visitors came from around the world however Canada, United States and China continue to be in the top 3 and representing almost 75% of all the users. 7% of all the users were French speaking.

The demographic would indicate that we are pursuing the right goals by trying to focus on young professionals to grow our membership and aim to increase of % of female members. 50% of the visitors were under 34 years old with the next

bracket (35-44 years old) representing another 20%. Female users accounted for 35%. This is consistent with what was observed last year, with a slight increase of female users.

Section 5: Virtual Events

One of the goals of the membership committee was to provide networking opportunities for our female members. In support of that goal and to celebrate International Women's Day a virtual event was held with Caroline Andrewes and Marcie Cochrane as guest speakers. Their presentation on EDI implementation (Moving from Understanding to Action) was followed by a Q&A. The event saw 35 attendees: 24 CGS members and 11 non-members. A symbolic \$10 fee was charged to non-members through Eventbrite. The recording is available to the CGS Membership Committee page ([CGS International Women's Day Webinar - YouTube](#)) and an article was published in the summer edition of the magazine.

Section 6: Other

An opportunity was evaluated to standardize the conference mobile app that is used each year and therefore lower the cost for each local organizing committee (LOC) in developing the app and making it a more user-friendly experience. After some market exploration it was determined that there were some technical challenges related to each LOC using potentially different platforms for managing papers and there was no vendor willing to enter in this type of agreement.

Young Professional Representative Summary Report – Leanne McLaren

Section 1: General

Date of report: August 21st, 2022

Prepared by: Vincent Castonguay, and Leanne McLaren: Young Professional (YP) Representatives

End of Term: December 31st, 2023

Section 2: Report on young member events

- CGS Young Professionals Conference 2022: 41 delegates have registered and the conference will be held in Banff, Alberta from Thursday September 29, 2022 to Saturday October 1, 2022, inclusive. The conference theme is "Risky Business", speakers include Matthias Jakob, Pooneh Maghoul, Ian Moore, Heinrich Heinz, and Shelby Yee. Delegates will be presenting a 3-minute elevator pitch as well as a poster for their selected topic.
- GeoNiagara 2021: A YP special session took place during the Sunday night icebreaker. Panelists answered questions and debated around themes suggested by the YP organizers. This event was organized in collaboration with the IAHCNC.
- GeoCalgary2022: A YP Icebreaker will be held on Sunday October 2 which will include some "icebreaker" games and activities to help YPs get to know each other and some more experienced professional mentors. There is also a plan for a YP social on Sunday evening to get to know fellow attendees in a casual setting.
- With the creating of the new YP Committee, more YP events are expected starting fall 2022.

Section 3: Websites

With the start-up of the new YP Committee, regular posts will be shared on the website and CGS social media about the role of the committee, YP resources, and upcoming events and activities for YP members.

Section 4: Finances

No finance is managed by the YP Representative. There is money in a reserved fund under the Education Committee that can be used for Young Professional or Student Initiatives.

Section 5: Affiliations with other organizations

- The CGS YP Representative was regularly in contact with other YP representatives from other countries through an initiative led by the ISSMGE.
- The CGS YP Representative has made contact with the YP committee from the Consulting Engineers of Alberta group. The CGS YP Representative will be in regular contact with other YP groups to share ideas and best practices.

Section 6: Young professionals awards

- The CGS Early Achievement award was awarded to Judith Bouchard at GeoNiagara.
- A motion will be brought up at the August 2022 EC meeting to update the age eligibility of the CGS Early Achievement Award to match that of the Colloquium Award.

Section 7: CGS Student Chapters

- An update on the CGS Student Chapters was shared to the BOD at GeoNiagara.
- A new student chapter was formed at the University of Ottawa in 2021, another one at the École de technologie supérieure in Montreal is expected to come to fruition during the 2022 summer or fall.

Section 8: Additional information or comments

- The CGS selected two Canadian representatives to participate in the 7th International Young Geotechnical Engineers Conference (7iYGEC) held in Sydney Australia in May 2022: Steven Harms and Vincent Castonguay.
- Vincent's term as CGS YP Representative ended on December 31st, 2021 and Leanne McLaren's term started January 1, 2022 and will end December 31, 2023.

SECTION REPORTS

Sections Representative Annual Report – Wesley Saunders

Noted that reports were missing for London, Kingston and New Brunswick. The statistics being reported by local sections on CGS membership and student participation is not complete and cannot be relied upon as a representation of the current growth or decline in membership. Improving on metrics monitoring recommended.

For the reporting sections, 5 did not lead any events (all smaller sections which did not receive the CCLT), the remaining 9 sections had a max of 11, min of 1 and average of 6.3 events over the 2021/2022 year. The events predominantly comprised on-line virtual technical lectures due to regulatory restrictions related to COVID-19 restrictions in place at that time, however some social and in person events did manage to be held. In general collaboration between close Sections continues for joining in online technical lectures.

The effectiveness of the efforts of each Section may be compared with the other sections based on the data reported, however, these comparisons must be interpreted based on the context of individual sections reporting practices, e.g., some sections report numbers from mailing lists versus paid members. The statistics reported definitely reflect the hard work by the volunteer base and have shown an increased attendance level for individual events with the virtual and hybrid in person models being used. The return to in person events has been actively embraced by the community and 2022 / 2023 promises to be another strong year.

In 2021 / 2022 it was targeted to increase Section Director interaction between sections with the first meeting to be held March 3rd, 2022. The intent is to routinely communicate and have a quickly coordinated meeting to share regarding ongoing events or upcoming activities as well as facilitate nationally coordinated events and submission to publications. This has proven to be effective through the meetings had to date and the collaboration between sections.

Based on the information provided in the section reports, the state of restrictions across Canada during the 2021 / 2022 year has had varied impacts on the local sections. Many did not host any events during this time and many were required to cancel technical in person events such as workshops. While online technical presentations have been successful hosted and have been able to be shared over great distances, the number of attendees participating in the events are not clearly and consistently reported and it is therefore difficult to assess the overall success. One benefit of the online events is that many sections are recording presentations which are then made available to broader audiences through the local section webpages and online content providers such as YouTube. An initiative has been undertaken to collect these resources to a central database such that they can be easier to access by the general public.

During this full year (July 2021 to June 2022), approximately 170 members of Section Committee Executives – all volunteers – served their roughly 2900 Section participants and arranged a total of 81 events (technical and social) achieving approximately 6,000 in attendance. This does not include the attendance at GeoNiagara 2021 or the CGS National Online Geotechnical Lecture. The CGS continues to serve well the geotechnical community at a local level and is encouraging involvement of students.

While it is clear that there has been a decline in events hosted over the past couple of years, the section executives and members are managing the current situation and are working toward future events that continue to benefit the community. Some in person activities started to occur in fall 2021 however this was at a significantly low rate due to varied restrictions and comfort levels across the country.

As noted above, the summary below is based on the 17 section reports received to-date out of 20 in total. Therefore, actual numbers of events and participation possibly stronger than provided by the analysis. It is noteworthy that sections did not report significant negative changes to the section's finances as the decrease in in-person activities has also reduced overall section expenses. The data provided by the sections to-date are summarized in the table below.

Table 1: CGS Section Activity Summary

Section	Membership						Number of Events					Total Events	Total Attendance	Sponsor Student?	Finance
	Executive		Local		CGS		CCLT	Technical Lectures	Workshop & Short Courses	Student Events	Social Events				
	Total	Students	Total	Students	Total	Students									
Vancouver Island	3	0	120		30		1	3				4	75	N	\$ 5,284.22
Vancouver	20	2	213	19	103		1	7				8	674	Y	\$85,728.21
Prince George	4	0	25		15		0					0	0	N	\$ 8,482.77
Interior BC	3	0	92				0					0	0	N	\$12,000.00
Edmonton	17	2	300	51	69		1	10				11	58*	Y	\$78,000.00
Calgary	12	1	281		100		1	8				9	1264	Y	\$35,325.03
Saskatoon	12	1	200		29		1	3				4	174	Y	\$33,218.05
Regina	8	0	50		18		0	5			1	6	576	N	\$41,000.00
Manitoba	10	1	52	11	52	11	1	8	1			10	592	Y	\$36,549.00
Thunder Bay	2	0	23	5	4	1	0					0	0	Y	\$ 2,956.56
Sudbury	1	0					0	1				1	19	N	\$ 0.00
London	12	1	300				0								\$10,000.00
Southern Ontario	14	1	400		300		1	5	2	1	1	10	1386	N	\$66,105.62
Kingston	8	2			100		0								\$ 8,000.00
Ottawa	6	0	100				1	3		1		5	255	Y	\$32,000.00
L'ouest-du-Québec	9	1	500				1	3	1			5	435	Y	\$35,000.00
L'est-du-Québec	13	1	146		54	10	0	8				8	423	Y	\$111,001.63
New Brunswick	5	0	40		20		1					1			\$ 339.77
Nova Scotia	3	0	21	4	21	4	0					0	0	N	\$16,546.47
St. John's	5	0	18		12		0					0	0	Y	\$37,404.72
Totals	167	13	2881	90	927	26	10	64	4	2	2	81	5931	10	\$646,459.28

*Virtual event attendance not counted

Key takeaways from the submitted reports and conversations with Section Directors:

- The prolonged duration of restrictions is beginning to wear on various sections in the coordination of online events and maintaining of engagement with their membership
- Many sections were required to cancel or delay events / workshops due to restrictions in place at that time
- Many of the smaller sections have decided to not plan any talks at this time and are working with the larger sections for participation in the online events

- Some sections are recording the online lectures and posting in various platforms. Initiative taken to consolidate these efforts to a singular resource
- Lack of report submissions by some sections limits the ability to synthesize the actions local memberships and an effort will be put forth to ensure completeness of the future submissions
- Sparsely populated and infrequently updated datasets from the local sections does not allow for accurate projections on the state of membership particularly the student body and participation of women in engineering. We should consider identifying key metrics and modify the reporting template accordingly and clearly communicate the importance of providing this information to the local sections
- It was beneficial to distribute a list of all local CGS members (active and inactive) to each individual Section Director as this resulted in a refresh of membership numbers for the reports.

A final note that was brought to my attention as the incoming Section Directors Representative. I was approached by a CGS member about the potential to create a section for the Hamilton / St. Catharines / Niagara Region. It was indicated that this has been discussed by a group of professionals in this region as a solution to challenges that they felt are being faced by members in this area. Their difficulty is that there is a heavy travel burden that exists to participate in the active events being put on by the SOS.

Reasoning given that supports the creation of this new section would include:

- Participation and contribution of a key geotechnical institute in McMaster
- Location of multiple offices supporting geotechnical practitioners (Hatch, OPG, MTO, Bauer, Menard, Soil-Mat, EXP, Englobe, Landtek, Peto McCallum, Tulloch, Stantec, WSP)
- Forecasting of event participation rates of >25 people and over 100 practicing professionals
- Population base of over 1 million people
- Local companies have expressed willingness to contribute financial support

Wes Saunders
Northwestern Ontario (Thunder Bay) Section Director
Section Directors Representative
2022-08-23

***Vancouver Island BC (Victoria) Section
Annual Report July 1, 2021 to June 30, 2022***

Formal Section Name: **Vancouver Island Geotechnical Group (VIGG)**

Section 1: General

Date of this report: July 14, 2022

Prepared by: Caleb Scott

Section Director: Caleb Scott

End of Section Director's Term: anticipated Summer 2023

Is there a link from your separate Section website to the CGS website? We don't have a website.

Section 2: Current Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your Section webpage)

Chair: Caleb Scott – Thurber Engineering Ltd.

Past Chair: Donald Kaluza - WSP

Vice Chair: Jeff Ferraby - Ryzuk Geotechnical

Section 3: Number of Section Members

Executive Committee Members: 3

Total members (if possible, student and non-student members): Approximately 120 on our mailing list. We do not have a paid membership model.

Total CGS members (if possible, student and non-student members): Approximately 30 based on list from CGS

Does your Section do anything specific to attract new members? Can the National Office or newly formed Membership Committee help support your endeavours?

Comments:

- We currently underserve parts of our region outside of greater Victoria due to the travel time required to participate at in-person events. Adding a virtual option (hybrid events) may increase participation but is not financially sustainable in our current model. Support on finding viable hybrid models (e.g. paid virtual option) could be helpful to our membership growth.

Section 4: Section Finances

Account balance \$5284.22

Does your Section charge members an annual fee? No but we're considering encouraging local actively participating firms to prepay annually for planned events to reduce our financial risks.

If so, how much? \$

Is your Section aware that CGS financial assistance is available to Sections (Admin Manual App 4)?

Yes and we would like to apply for some this year to offset CCLT costs and so that we can resume offering discounted event admission to CGS members to promote CGS membership.

Is your Section aware of the CGS Lecture Supplement Program? Yes

Is your Section planning on sponsoring a Student/MIT to attend GeoCalgary 2022 (Admin Manual App 12)? No

Section 5: Section Activities, July 1, 2021 to June 30, 2022			
Date	Speaker/Other	Topic/Subject	Attendance
April 26, 2022	Jeff Schaeffers, P.Eng. and Jesse Lightman, P.Geo., CONETEC	Site characterization	30
May 18, 2022	University of Victoria Graduate Students in Civil Engineering	1. <i>Seismic analysis of HDPE lift stations</i> 2. <i>Development of a countertop apparatus for surface erosion testing</i> 3. <i>Experimental Investigation of Freeze-Thaw Behavior of Geocell-Reinforced Soils Considering Different Fines Content</i>	10
May 24, 2022	Dr. Hany El Naggar, Ph.D., P.Eng., Dalhousie University	Performance of Integral Abutment Bridges in Canada	15
July 6, 2022	Doug Stead, CCLT	Characterizing Rock Slope Failure Mechanisms Using Combined Remote Sensing and Numerical Modelling	20

Section 6: Additional information or comments

- The spring 2022 session was our first in-person since Fall 2019 due to the pandemic.

Section 7: Do you have any specific questions or issues that you would like to bring to the attention of the Sections Representative on the CGS Executive Committee, the CGS National Office or fellow Board members?

No

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2?

Virtually.

**Southern BC (Vancouver) Section
Annual Report July 1, 2021 to June 30, 2022**

Formal Section Name: Vancouver Geotechnical Society

Section 1: General

Date of this report: July 3/6, 2022
 Prepared by: Marc C. Bossé
 Section Director: Vancouver Geotechnical Society
 End of Section Director's Term: December 31, 2023
 Is there a link from your separate Section website to the CGS website? Yes

Section 2: Current Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your Section webpage)

Chair: Olga Kosarewicz, Rio Tinto
 Past Chair: Tim Morton, BGC (Yoshi Tanaka, Kontur, acting)
 Program Director: Aran Thuraiajah, Golder / Mahdi Shahrabi, Golder
 Treasurer: Jared Whitehead, Metro Testing & Engineering
 Secretary: Tyler Southam, Tetra Tech
 Registrar: Ethan Alban, Knight Piesold / Muin Ahmed, Aecon / Eryn Alexander, BGC
 Web Manager: Tajinder Singh, Hatch
 CGS Director: Marc C. Bossé, Thurber
 Student Representative: Thushara Jayasinghe, UBC
 Symposium: CGS Director effectively supplanted the original organising committee and started providing direction to get planning underway. CGS director will on vacation during the Symposium.
 Member-at-Large: Ann Wen, KCB / Drew Hehadoren, KCB / Jeremy Young, UBC / Amin Bigdeli, WSP / MJ Siahdashti, PWC / Emir Hot, Arya Engineering / Kevin Kuei, Golder / Shane Magnusson, BGC

Section 3: Number of Section Members

Executive Committee Members: 20
 Total members (if possible, student and non-student members): 180 regular, 19 student, 14 lifetime
 Total CGS members (if possible, student and non-student members): 103
 Does your Section do anything specific to attract new members? Can the National Office or newly formed Membership Committee help support your endeavours?

- Comments:
- The VGS does not put much effort into attracting new members.
 - Member numbers are current to June 20, 2022.

Section 4: Section Finances

Account balance \$84,728.21

Does your Section charge members an annual fee? Yes.
 If so, how much? \$20
 Is your Section aware that CGS financial assistance is available to Sections (Admin Manual App 4)? Yes
 Is your Section aware of the CGS Lecture Supplement Program? Yes
 Is your Section planning on sponsoring a Student/MIT to attend GeoCalgary 2022 (Admin Manual App 12)? Yes

Comments:

- Sponsored student is Masoumeh Asgarpoor of UBC. The paper is 'Key predictors of earthquake-induced lateral spreading in liquefiable slopes'.

Section 5: Section Activities, July 1, 2021 to June 30, 2022			
Date	Speaker/Other	Topic/Subject	Attendance
2021.11.16	Benoit Latapie	Shared experience of value engineering case studies from Middle Eastern major projects	61 of 95 registered
2021.12.08	Trevor Carey	The effects of soil gradation on the liquefaction triggering and deformation response of embankments.	124 of 181 registered
2022.01.18	Natalia Skomorovski	Mallkuchusi suspended bridge project	70 of 113 registered
2022.02.23	Richard Armstrong	Efficiency of ground motion intensity measures with earthquake-induced earth dam deformations.	114 of 149 registered
2022.03.30	Ben Leschinsky	Will it stay or will it go? Use of lidar to assess slope instability.	107 of 178 registered
2022.04.27	Sumeet Kumar Sinha	Liquefaction-induced downdrag on piles: centrifuge and numerical modelling, and design procedures.	95 of 136 registered
2022.06.08	Dimitrios Zekkos	The January 28, 2021 Highway 1 embankment failure at Rat Creek, Big Sur, California and lessons learned.	75 of 100 registered
2022.06.20	Doug Stead (Spring CCLT)	Characterising rock slope failure mechanisms using combined remote sensing and numerical modelling.	28

Section 6: Additional information or comments

- The symposium for 2022 was postponed to September 16 and will be in person.
- The break in continuity for in-person events will likely be quite profound. Depending on how frequently executives turn over it is possible that most have lost that operational experience. For example, on the VGS exec only 3 people have pre-covid experience (starting 2006, 2016, 2016).

Section 7: Do you have any specific questions or issues that you would like to bring to the attention of the Sections Representative on the CGS Executive Committee, the CGS National Office or fellow Board members?
 No.

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? Yes.

**Northern BC (Prince George) Section
Annual Report July 1, 2021 to June 30, 2022**

Formal Section Name: Northern BC (Prince George) Section

Section 1: General

Date of this report: July 29, 2022

Prepared by: Warren Lemky

Section Director: Warren Lemky

End of Section Director's Term: December 2019 (no successor for position and COVID has delayed)

Is there a link from your separate Section website to the CGS website? No

Section 2: Current Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your Section webpage)

Chair: Warren Lemky, Ministry of Transportation and Infrastructure

Past Chair/Treasurer: Dave McDougall, GeoNorth Engineering Ltd.

Vice Chair: Vacant

Secretary: Mark Dresen, GeoNorth Engineering Ltd.

Treasurer: Natasha Jmaeff, GeoNorth Engineering Ltd.

Section 3: Number of Section Members

Executive Committee Members: 4

Total members (if possible, student and non-student members): ~25

Total CGS members (if possible, student and non-student members): ~15

Does your Section do anything specific to attract new members? Can the National Office or newly formed Membership Committee help support your endeavours? We are a small community in Prince George so pretty much all geotechnical engineers in the community are part of our group.

Comments:

-

Section 4: Section Finances

Account balance \$8482.77

Does your Section charge members an annual fee? No

If so, how much? \$

Is your Section aware that CGS financial assistance is available to Sections (Admin Manual App 4)? Yes

Is your Section aware of the CGS Lecture Supplement Program? Yes

Is your Section planning on sponsoring a Student/MIT to attend GeoCalgary 2022 (Admin Manual App 12)? No

Comments:

- We don't have any student members to sponsor

Section 5: Section Activities, July 1, 2021 to June 30, 2022			
Date	Speaker/Other	Topic/Subject	Attendance

Section 6: Additional information or comments

- There were no talks this year due to Covid-19. Our section was invited to some VGS, Regina, and Vancouver Island presentations that were attended by some of our members but numbers were not tracked. We were hoping to kick off our post-Covid series with the CCLT but it was cancelled due to Dr. Stead coming in close contact with Covid. We are hoping to be able to take part in the fall section or reschedule with Doug. Now that restrictions have eased, we will likely start preparing for future talks later this year.

Section 7: Do you have any specific questions or issues that you would like to bring to the attention of the Sections Representative on the CGS Executive Committee, the CGS National Office or fellow Board members?

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? Possibly, depending on approval to attend GeoCalgary from employer

*Interior BC (Kelowna) Section
Annual Report July 1, 2020 to June 30, 2021*

Formal Section Name: BC Interior Geotechnical Group

Section 1: General

Date of this report: July 30, 2021

Prepared by: D. Tannant

Section Director: D. Tannant

End of Section Director's Term: whenever I can get someone else to do this, been waiting for years

Section's CGS web page address: NA

Last time your Section's CGS web page was updated: NA

If your Section has a separate website, please provide address:

Is there a link from your separate Section website to the CGS website? No

Section 2: Current (Jan 1 - Dec 31, 2021) Executive Committee Members and their Affiliations (employers or, if students, universities, to be posted on your Section webpage)

Chair: Dr. Dwayne Tannant, UBC Okanagan

Past Chair: Dr. Sumi Siddiqua, UBC Okanagan (a few years ago)

Vice Chair: none

Secretary: none

(Add others as necessary) Treasurer: Glen Rutherford, Golder Associates

Section 3: Number of Section Members

Executive Committee Members: 3

Total members (if possible, student and non-student members): email list with 92 addresses (diverse group of people)

Total CGS members (if possible student and non-student members): unknown

Comments (point form)

Section 4: Section Finances:

Account balance ~\$12,000

Does your Section charge members an annual fee? no

If so, how much?

\$

Is your Section aware that CGS financial assistance is available to Sections (Admin Manual App 4)? Yes

Is your Section aware of the CGS Lecture Supplement Program? Yes

Is your Section planning on sponsoring a Student/MIT to attend GeoNiagra (Admin Manual App 12)? Yes

Comments (point form)

•

Section 5: Section Activities, July 1, 2020 to June 30, 2021			
Date	Speaker/Other	Topic/Subject	Attendance
		No activities other than informing local membership of webinars being offered elsewhere in BC via other sections	

Section 6. Additional information or comments

While not a section activity, I organized and ran three live online GeoHazards Connections presentations in May/June. I did this pretty much solo as my PhD student (in Nepal at the time) that was initially helping, got covid and was in a hospital for a few weeks leading up to this event. Fortunately, he has recovered. Even some presenters could not make it due to covid impacts. I had the intentions to write a summary of the event for the Geohazards Committee that supported the concept after I said I could run the event, but time was never free to do so, and I lost the zoom registration details. However, a summary of the presentations is attached below. Typically, about 30 to 40 people logged in for each date, despite a much larger list of people that advance-registered in Zoom. If this occurs again, I suggest dropping the number of days to just 1 and having a few different sequential themes with separate registrations for each so people can log in for only part of a day in a theme that interests them. Running this in Zoom (as a presentation, not a webinar) worked well and having no registration fees simplified the logistics greatly.

The event was a success, and it had an international reach and gave some students their first opportunity to present their research, which was a great learning experience for them.

Goals

Showcase a diversity of geohazards research

Promote student-to-student connections and student-to-practitioner connections across Canada

Encourage presentations from graduate students in the early stages of their research

Research Series Hosts for Summer 2021

Dr. Dwayne Tannant (Professor) and Kaushal Raj Gnyawali (PhD student), UBC Okanagan

Section 7. Do you have any specific questions or issues that you would like to bring to the attention of the Sections Representative on the CGS Executive Committee, the CGS National Office or fellow Board members?

Are you planning to attend the fall board meeting? No

Date	Email Address	Name	Surname	Presentation Title
May 5	dwayne.tannant@ubc.ca	Dwayne	Tannant	Introduction to Geohazard Connections
May 5	amitchell@eoas.ubc.ca	Andrew	Mitchell	How it goes and how it flows: multistage rock avalanches and surging debris flows

May 5	dadria@eoas.ubc.ca	Daniel	Adria	A fluid situation - connecting tailings dam breach parameters to downstream impacts
May 5	eecastilloc@una-l.edu.co	Emanuel	Castillo Cardona	Morphometrical analysis of fans and torrential catchments in mountainous terrain in the northern Colombian Andes by machine learning techniques
May 5	bera.somnath2007@gmail.com	Somnath	Bera	Indicator-based approach for assigning physical vulnerability of houses to landslide hazard in the Himalayan region of India
May 5	geokshitij@gmail.com	Kshitij	Dahal	Framework for multi-hazard susceptibility mapping in Google Earth Engine
May 26	jvarian@eoas.ubc.ca	Jovian	Varian	Understanding wet muck hazards in cave mining with the development of an empirical database at the PT Freeport Indonesia Operation
May 26	sghadirianniari@eoas.ubc.ca	Sahar	Ghadirian niari	Mud rush (wet muck spill) severity analysis in underground mines
May 26	lamanehoudageo@gmail.com	Houda	Lamane	Water erosion assessment methods
May 26	b.pokharel@student.unsw.edu.au	Badal	Pokharel	Slope units for geohazard assessment
May 26	taylor.wood@students.plymouth.ac.uk	Taylor	Wood	Parameters controlling large landslide propagation
May 26	troncosoklein.camila@queensu.ca	Camila Philips	Troncoso Klein	Characterization of Dutchman's Ridge Slide: a long-term monitored potential rockslide in the Upper Columbia River, British Columbia
May 26	philomo08@gmail.com	Omowumi	Falae	Landslide characterizations through time lapse electrical resistivity tomography
June 16	ali-reza.zafarani@polymtl.ca	Ali Reza	Zafarani	Seismic behavior of reinforced tailings impoundments
June 16	fatima.machay@etu.uae.ac.ma	Fatima	Machay	Geological hazards and seismic activity in the Agadir region (Morocco)
June 16	rabieahtul@gmail.com	Rabieah tul	Abu Bakar	Kundasang earthquake resilient society: Bringing science into action
June 16	thomas-yutaochen@gmail.com	Thomas	Chen	Mitigating the impacts of natural hazards with computer vision technologies
June 16	mohan.smrc@gmail.com	Mohan K.	Das	Performance evaluation of WRF model for forecasting flash floods in northeast Haor areas of Bangladesh

Northern Alberta & Territories (Edmonton) Section
Annual Report July 1, 2021 to June 30, 2022

Formal Section Name: Geotechnical Society of Edmonton

Section 1: General

Date of this report: July 15, 2022
Prepared by: Ken Froese, P.Eng.
Section Director: Ken Froese, P.Eng.
End of Section Director's Term: December 31, 2023
Is there a link from your separate Section website to the CGS website? Yes

Section 2: Current Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your Section webpage)

President: Zion Yua, Thurber Engineering Ltd.
Past President: Courtney Mulhall, Klohn Crippen Berger
Vice President: Kevin Wallin, University of Alberta
Secretary: Alma Ornes, BGC Engineering
Program Chair: Vincent Huang, WOOD
Treasurer: Michael Sampson, Thurber Engineering Ltd.
Registrar: Don Lewycky
Student Representative: Naveel Islam, University of Alberta
Member at Large: Murray Innes, Mobile Augers
Member at Large: Menuka (Max) Dassanayake, City of Edmonton
Member at Large: Renato Macciotta, University of Alberta
Member at Large: Krishna Dhungana, WOOD
Member at Large: Leanne McLaren, Thurber Engineering Ltd.
Member at Large: Seán Mac Eoin, TetraTech
Board Member (UoA): Albert Liu/Nicholas Beier, University of Alberta
Board Member (NAIT): Kateri Adamczak/Jeffrey Chapin, NAIT
CGS Section Director: Ken Froese, Thurber Engineering Ltd.
Website: Ken Froese, Thurber Engineering Ltd.

Section 3: Number of Section Members

Executive Committee Members: 17
Total members (if possible, student and non-student members): 300
Total CGS members (if possible, student and non-student members): 69

Does your Section do anything specific to attract new members? Can the National Office or newly formed Membership Committee help support your endeavours? We don't have a problem getting members but we do need some method whereby we can track and invoice them. A National initiative to assemble a database/web portal, which could support all Sections, would be helpful.

Comments:

- Total number includes 14 retired or unemployed and 24 Life members.
- We hold a student mixer event in the fall to welcome new and returning University and technical college students. They are provided a free membership with the nominal registration fee (\$5). We currently have 51 student members.
- Working members are brought in by word of mouth and the Executive encouraging registration in their respective workplaces.

- The recently-provided list of CGS members in our Section will be a starting point for increasing our membership (which runs from September to August).

Section 4: Section Finances

Account balance \$78,000
 Does your Section charge members an annual fee? Yes – we will be resuming charging this for the 2022-2023 season. We hadn't charged for the previous 2 seasons as all events were virtual.
 If so, how much? \$15, \$10 for CGS members, \$5 students, \$0 for Stan Thomson
 Award winners and retirees
 Is your Section aware that CGS financial assistance is available to Sections (Admin Manual App 4)? Yes
 Is your Section aware of the CGS Lecture Supplement Program? Yes
 Is your Section planning on sponsoring a Student/MIT to attend GeoCalgary 2022 (Admin Manual App 12)? Yes – selection has just been made.

Comments:

- Balance does not include \$20,000 recallable loans with CFG.

Section 5: Section Activities, July 1, 2021 to June 30, 2022			
Date	Speaker/Other	Topic/Subject	Attendance
July 20, 2021	Neil Abbott, Gowling WLG	Expert Evidence: From engagement to report; recent developments to build your case as a better Expert	Virtual
Sept. 16, 2021	Mickey Davachi, Ph.D., P.Eng.	Teton Dam Failure as keynote for the AGM	Virtual
October 25, 2021	Gabriella Wahl, Yiwen (Vicky) Zhang, Sohrab Sharifi	U of A Student Presentations at annual Fall student mixer	Virtual
November 3, 2021	Dr. Doug Stead	CGS National Geotechnical Lecture: Applications of Mixed and Virtual Reality in Engineering Geology	Virtual
January 20, 2022	Dr. Fangzhou Albert Liu	Effect of structure on the development of flowslides in cemented soils	Virtual
February 17, 2022	Serena Jang and Lori Simpson, Langan Engineering and Environmental Services, Inc.	Joint with CSCE: Chase Center: A Pearl Rises from the Bay	Virtual
March 7, 2022	Ertan Ozman, Clifton Associates	Fundamentals of Project Management and Financial Basics for Geotechnical Professionals	Virtual
April 12, 2022	Dr. Neeltje Slingerland, Golder Associates	Geomorphic Design: Past, present, and future	Virtual
April 28, 2022	Tim Tham and Tony Ruban, TetraTech	Hangingstone River Approach Fill Construction – A Case Study	Virtual
May 20, 2022	Dr. Jean Hutchinson	Utilizing Remote Sensing Data to Understand Rock Slope Processes – keynote for AGM	Virtual
June 21, 2022	Dr. Doug Stead	CCLT: Characterizing rock slope failure mechanisms using combined remote sensing and numerical modeling	48 in person, 10 virtual

Section 6: Additional information or comments

-

Section 7: Do you have any specific questions or issues that you would like to bring to the attention of the Sections Representative on the CGS Executive Committee, the CGS National Office or fellow Board members?

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? Yes

***Southern Alberta (Calgary) Section
Annual Report July 1, 2021 to June 30, 2022***

Formal Section Name: Southern Alberta

Section 1: General

Date of this report: July 26, 2022

Prepared by: Kshama Roy

Section Director: Kshama Roy

End of Section Director's Term: July 31, 2022

Is there a link from your separate Section website to the CGS website? Yes

Section 2: Current Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your Section webpage)

Chair: Aditi Khurana (Stantec)
Past Chair: Will Smith (BGC Engineering)
Co- Chair: Susanne Ouellet (BGC Engineering/University of Calgary)
Treasurer: Daniel G. Bertrand (Klohn Crippen Berger)
Section Director: Lilianne Landry-Pare (Hatch)
Venue Coordinator: Jarret MacDonald (Klohn Crippen Berger)
Announcements/
Sponsorship: Jack Park (BGC Engineering)
Webmaster: Tun Lwin (TLA Consulting Inc.)
Student Rep: Jose Rogelio Hernandez Borbon (University of Calgary)
Members at Large: Thomas Kujawa (Thurber Engineering)
Dan Ferg (GeoStabilization International)
Michael Bicanic (Thurber Engineering)

Section 3: Number of Section Members

Executive Committee Members: 12

Total members (if possible, student and non-student members): N/A

Total CGS members (if possible, student and non-student members): ~100

Does your Section do anything specific to attract new members? Can the National Office or newly formed Membership Committee help support your endeavours? Yes

Comments: We present the benefits of becoming a CGS member at the beginning of most of our talks and AGM

Section 4: Section Finances

Account balance \$35,325.03 (July 22, 2022)

Does your Section charge members an annual fee? No

If so, how much? N/A

Is your Section aware that CGS financial assistance is available to Sections (Admin Manual App 4)? Yes

Is your Section aware of the CGS Lecture Supplement Program? Yes

Is your Section planning on sponsoring a Student/MIT to attend GeoCalgary 2022 (Admin Manual App 12)? Yes

Comments:

- The above bank account balance includes \$1,282.36 that is held in trust and only to be used for the ISSMGE 2020 design challenge.
- The local section will need to return to CGS the \$20k in seed money received to help with the planning of the GeoCalgary 2020 conference that was postponed until October 2022 due to the Covid-19 pandemic. These funds are currently held by the GeoCalgary 2022 Conference Organizers (Venue-West) and per the terms of the Memorandum of Understanding (MOU) between the Local Organizing Committee and CGS, are to be repaid within two months after the end of the conference.

Section 5: Section Activities, July 1, 2021 to June 30, 2022			
Date	Speaker/Other	Topic/Subject	Attendance
September 9, 2021	Dennis Becker	Testing in Geotechnical Design	166
November 17, 2021	Michael Jefferies	Analysis of Static Liquefaction with PLAXIS: 1974 Tar Island Slump	288
November 24, 2021	Marcos Arroyo	Numerical Analysis of the Brumadinho Tailings Dam Failure	292
December 15, 2021	Yadong Zhang	Preconsolidation Pressure and Undrained Shear Strength of Compacted Silty Sand	40
February 9, 2022	Doug Dewar	The Ground Contouring Metal Slope Inclinator (a.k.a. a Pipeline): The Integration of Pipeline Data in Landslide Geohazard Management	220
March 9, 2022	Carie-Ann Lau and Matt Lato	Disaster Response: A coordinated response to the November 2021 atmospheric rivers on infrastructure in British Columbia	111
April 20, 2022	Dave Bigelow	Climate Risk Assessment	63
May 11, 2022	Gord McKenna, Ph.D., P.Eng., P.Geol.	Safe Closure for Tailings Facilities (CyGS AGM & Presentation)	65
June 22, 2022	Dr. Doug Stead	Characterizing rock slope failure mechanisms using combined remote sensing and numerical modelling (CCLT)	19

Section 6: Additional information or comments

- The website was fully rebranded, and it was one of the major accomplishments this year.
- CyGS is heavily involved in organizing the GeoCalgary 2022 and CGS Young Professionals Conference 2022.
- CyGS started its brand-new YouTube channel: <https://www.youtube.com/channel/UCUbrIrxewETW6EsBh415sg>
- A total of seven videos were posted to the Youtube channel.
- Bob Saunders was the recipient of the 2022 Calgary Geotechnical Society Award.
- A separate pdf file on the activity stats of our 2021-2022 events is attached with this report.

Section 7: Do you have any specific questions or issues that you would like to bring to the attention of the Sections Representative on the CGS Executive Committee, the CGS National Office or fellow Board members?
No

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? Yes

**Northern Saskatchewan (Saskatoon) Section
Annual Report July 1, 2021 to June 30, 2022**

Section 1: General

Date of this report: July 5, 2022

Prepared by: Bryce Marcotte

Section Director: Bryce Marcotte

End of Section Director's Term: 2023

Is there a link from your separate Section website to the CGS website? Yes/No

Please add: <https://www.saskatoongeotech.com/>

Please change email to: saskatoongeotechnicalgroup@gmail.com

Section 2: Current Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your Section webpage)

Chair: Vanessa Heilman (City of Saskatoon)

Past Chair: Jon Osback (Clifton)

Vice Chair: Kyle Bruce (Thurber)

Communications/Media: Adam Leik (SRK)

CGS Section Director: Bryce Marcotte (SRK)

Treasurer/Sponsorship: Sachin Patel (KCB)

Student Liaison: Ian Adams (USASK)

Members at Large:

Adam Gmeinwaser (Thurber)

Chad Salewich (Cameco)

Sara Seabrook (Golder)

Adam Hammerlindl (USASK)

Mike Amos (Sask Highways)

David Elwood (USASK)

Section 3: Number of Section Members

Executive Committee Members: 12

Total members (if possible, student and non-student members): ~200 (approximately 20 student members)

Total CGS members (if possible, student and non-student members): 29 members (4 students)

Does your Section do anything specific to attract new members? Can the National Office or newly formed Membership Committee help support your endeavours?

Comments:

We currently do not do anything special to attract new members, other than encouraging them to sign up for the CGS.

We are in discussion of a new model of tickets for events, and will be considering taking CGS membership into consideration. The student chapter actively is recruiting new members as well.

Section 4: Section Finances

Account balance

Description	Value
SGG Bank Balance Actual Balance \$ 14,455.56 CCLT Park Town Payment -\$ 1,005.51	\$ 13,450.05
CGS Seed Funding	\$ 20,000.00
IAH-CNC Seed Funding	\$ 2,000.00
IGS-NA Seed Funding	\$ 1,968.00
Conference organizer initial payment	-\$ 4,200.00
Current Balance	\$ 33,218.05

Does your Section charge members an annual fee? No

If so, how much? \$0

Is your Section aware that CGS financial assistance is available to Sections (Admin Manual App 4)? Yes/No

Is your Section aware of the CGS Lecture Supplement Program? Yes/No

Is your Section planning on sponsoring a Student/MIT to attend GeoCalgary 2022 (Admin Manual App 12)? Yes/No

Comments:

•

Section 5: Section Activities, July 1, 2021 to June 30, 2022			
Date	Speaker/Other	Topic/Subject	Attendance
June 23/22	CGS CCLT: Doug Stead	Characterizing rock slope failure mechanisms using combined remote sensing and numerical modelling	25
March 15/22	Sara Seabrook	Test Fill for Rock Fill Dams	34
April 21/22	Student Presentation	Graduate Student Presentations (Virtual)	~50
Nov 16/21	Sarah Gaib	The Ten Mile Slide (Virtual)	~65

Section 6: Additional information or comments

Generally good turnout, both virtual and in person events. Limited events for the CCLT as our membership is difficult to get out to evening events, and due to flights was the only time. Looking ahead, trying to book a full season of presentations for 2022 and 23. The executive is holding off on short courses next season in favour of having them included in the national conference.

Section 7: Do you have any specific questions or issues that you would like to bring to the attention of the Sections Representative on the CGS Executive Committee, the CGS National Office or fellow Board members?

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? Yes / No

Yes, pending work schedule and other commitments.

**Southern Saskatchewan (Regina) Section
Annual Report July 1, 2021 to June 30, 2022**

Formal Section Name: South Saskatchewan Section (Regina Geotechnical Group)

Section 1: General

Prepared by: Kyle Mason

Section Director: Kyle Mason

End of Section Director's Term: Fall 2022

Is there a link from your separate Section website to the CGS website? Yes

Section 2: Current Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your Section webpage)

Chair: Kyle Mason BGC Engineering

Past Chair: Jasyn Henry, Clifton Engineering Group

Director of Finance Kim Doran SNC-Lavalin

Director of Communications: Jobie Taylor SNC-Lavalin

Program Director Jenae Nixon Water Security Agency

Geohazards Chair Jenna Baker Ministry of Highways and Infrastructure

Foundations Chair Chelsey Knibbs Wood

Past Chair: Harpreet Panesar, Ministry of Highways and Infrastructure

Section 3: Number of Section Members

Executive Committee Members: 8

Total members (if possible, student and non-student members): ~50

Total CGS members (if possible, student and non-student members): 18

Does your Section do anything specific to attract new members? Can the National Office or newly formed Membership Committee help support your endeavours? Bringing in discounted events.

Comments:

•

Section 4: Section Finances

Account balance \$20,100 liquid, ~\$20,000 GIC

Does your Section charge members an annual fee? No

If so, how much? \$NA

Is your Section aware that CGS financial assistance is available to Sections (Admin Manual App 4)? Yes

Is your Section aware of the CGS Lecture Supplement Program? /No

Is your Section planning on sponsoring a Student/MIT to attend GeoCalgary 2022 (Admin Manual App 12)? No

Comments:

•

Section 5: Section Activities, July 1, 2021 to June 30, 2022			
Date	Speaker/Other	Topic/Subject	Attendance
27 Oct 2021	Jenae Nixon, WSA	Observations on Installations of Piezometers on SI Casing	76
24 Nov 2021	Jon Friesen, KGS	Assessment/Design/Construction of New Remedial Dam	~50
15 Dec 2021	RGG Social – Pool	Meet and greet	~10
23 Feb 2021	James Blatz, UofM	When Clays Attack	100
24 Mar 2021	Evan Ulmer, Mohsen Nicksair SNC	Risk-based Analysis of a complex slide affecting a HWY in Qu'Appelle Valley	~150
28 April 2021	Vicki Nguyen KCB, Imteaz Bhuiyan WSA	Stability, Deformation, and Risk Evaluation of Gardiner Dam	190

Section 6: Additional information or comments

- Was another virtual year. 2022/23 will be our return to in person events. Trying to shift direction slightly and attract younger engineers and promote CGS membership.

Section 7: Do you have any specific questions or issues that you would like to bring to the attention of the Sections Representative on the CGS Executive Committee, the CGS National Office or fellow Board members?

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? Yes

*Manitoba (Winnipeg) Section
Annual Report July 1, 2021 to June 30, 2022*

Formal Section Name: CGS Manitoba

Section 1: General

Date of this report: July 13, 2022
 Prepared by: David Kurz
 Section Director: David Kurz
 End of Section Director's Term: December 2022
 Is there a link from your separate Section website to the CGS website? Yes, <http://www.cgsmanitoba.ca/>

Section 2: Current (Jan 1 - Dec 31, 2022) Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your Section webpage)

Chair: Arjan Jianfar (Hatch)
 Secretary: Doreen Wang (Hatch)
 Treasurer: Kirby Pogue (Hatch)
 Program Director: David Anderson (KGS Group)
 Student Liaison: Silvia J.F.N. Araujo (University of Manitoba)
 Special Initiative Coordinator: Ruslan Amarasinghe (Trek Geotechnical)
 Webmaster: Kevin Baylis (Stantec)
 Special Events: David Flynn (KGS Group) and Kale Robinson (KGS Group)

Section 3: Number of Section Members (as of June 30, 2021)

Executive Committee Members: 10 (Including Section Director)

Total members (if possible, student and non-student members): 52 (not including 10 Inactive members)

Total CGS members (if possible, student and non-student members):

Student: 11 Non-Student: 40 Retired: 1

Does your Section do anything specific to attract new members?

- No recent activities, discussions ongoing. We have reached out to inactive members to encourage renewal for 2022. Some may have renewed between receipt of the list and this report.

Can the National Office or newly formed Membership Committee help support your endeavours? Discussions ongoing.

Comments:

- Local presentations and annual golf tournament are subsidized for CGS members. Benefits of CGS membership are discussed at monthly presentations.

Section 4: Section Finances (as of June 30, 2022)

Account balance \$36,549

Does your Section charge members an annual fee? No

If so, how much? \$0

Is your Section aware that CGS financial assistance is available to Sections (Admin Manual App 4)? Yes

Is your Section aware of the CGS Lecture Supplement Program? Yes

Is your Section planning on sponsoring a Student/MIT to attend GeoCalgary 2022 (Admin Manual App 12)? Yes, we plan to sponsor a student.

Comments: N/A

Section 5: Section Activities, July 1, 2021 to June 30, 2022			
Date	Speaker/Other	Topic/Subject	Attendance
September 15, 2020	Keshav Parameshwaran S, M.Sc. Candidate, University of Manitoba Kevin Baylis, M.Eng., P.Eng., Stantec Consulting Ltd.	Fully Integrated Groundwater-Surface Water Modelling to Forecast Soil Moisture Scale in a Manitoba Catchment Calibration of a Site-Specific Geotechnical Resistance Factor for a Large Industrial Project Site in Western Canada <i>(Hosted virtually by CGS Manitoba)</i>	20
November 3, 2021	Dr. Doug Stead, Ph.D., P.Eng., Simon Fraser University	First National Online Geotechnical Lecture: Applications of Mixed and Virtual Reality in Engineering Geology <i>(Hosted virtually by Dr. M. Fall (UOttawa, CGS National))</i>	266 (Total)
November 24, 2021	Jon Friesen, M.Eng. P.Eng. (KGS Group)	Assessment and design of a new remedial dam in Northwestern Ontario <i>(Hosted by RGG, advertised for CGS Manitoba & Thunder Bay)</i>	>50
December 14, 2021	James Bartz, Ph.D., P.Eng., Post-Doctoral Fellow (U of M)	Downdrag in Pile Design: Findings from a Test Pile Program in Winnipeg <i>(Hosted virtually by CGS Manitoba)</i>	54
January 28, 2022	Silvia J.F. Nobre Araujo, Ph.D. Candidate (U of M)	Numerical Simulation of the Impact of Vibratory Densification of Rockfill Columns on Adjacent Buried Structure <i>(Hosted virtually by CGS Manitoba)</i>	34
February 23, 2022	Dr. James Blatz, Ph.D., P.Eng., University of Manitoba	When Clays Attack <i>(Hosted by RGG, advertised for CGS Manitoba & Thunder Bay)</i>	--
February 24, 2022	Dr. Renato Macciota	Slope Risk Management in light of Uncertainty, Environmental Variability and Design Confidence <i>(Hosted virtually by CGS Manitoba)</i>	37
March 15, 2022	Dr. James Blatz, Ph.D., P.Eng., University of Manitoba	Practical Geotechnical Modelling and Risk Management <i>(Hosted virtually by CGS Manitoba)</i>	44
March 28 – 31, 2022	Pierre Choquet, Dr. Eng., P.Eng., Technical Advisor, Terra Insights, VP Market Development, RST Instruments, Maple Ridge, BC Robert Praeg, B.Sc.E., E.I.T., Geotechnical Instrumentation Specialist, Measurand, Fredericton, NB Andy Pon, Ph.D., Data Scientist and Danny Cerin, M.Sc., InSAR specialist, 3vGeomatics, Vancouver, BC	Geotechnical Monitoring using Automated In-Ground Instrumentation and Satellite InSAR <i>(Hosted virtually by CGS Manitoba)</i>	Minimum 70/day x 4 days
June 24, 2022	Dr. Doug Stead, Ph.D., P.Eng., Simon Fraser University	Characterizing Slope Failure Mechanisms Using Combined Remote Sensing and Numerical Modelling. <i>(Hosted in-person by CGS Manitoba)</i>	17

Section 6: Additional information or comments

- The local presentations (recordings) are posted on our CGS Manitoba website. Some presentations have received over 30 viewings of the recordings.
- Cancelled due to COVID-19 Restrictions:
 - CGS Manitoba cancelled a Terrain Analysis for Geotechnical Applications short course for both 2020 and 2021 due to COVID-19. We are exploring options for this in 2022, but no developments yet.
 - Fall 2021 CCLT planning was suspended, however we advertised the First National Online Geotechnical Lecture held on Nov 3, 2021.
- We hosted the Spring 2022 CCLT on June 24, 2022. We received modest attendance which was attributed to several factors based on some responses by members. Many members declined due to Friday evening in summer. Despite lower than anticipated attendance, the presentation was well received by the attendees.
- We are planning for our Annual Golf Tournament for the Neil Burgess Memorial Scholarship fund as an in-person event for July 2022. We are advertising for registrants and seeking sponsorships.

Section 7: Do you have any specific questions or issues that you would like to bring to the attention of the Sections Representative on the CGS Executive Committee, the CGS National Office or fellow Board members?

Not currently.

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? Yes, I plan to attend in-person.

Northwestern Ontario (Thunder Bay) Section Annual Report July 1, 2021 to June 30, 2022

Formal Section Name: Northwestern Ontario

Section 1: General

Date of this report:	2021-12-31
Prepared by:	Wesley Saunders
Section Director:	Wesley Saunders
End of Section Director's Term:	2023
Is there a link from your separate Section website to the CGS website?	N/A

Section 2: Current Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your Section webpage)

Chair:	Wesley Saunders (GKM Consultants)
Past Chair:	Eltayeb Mohamedelhassan (Lakehead University)
Vice Chair:	
Secretary:	

Section 3: Number of Section Members

Executive Committee Members:	2
Total members (if possible, student and non-student members):	23 (5 students)
Total CGS members (if possible, student and non-student members):	4 (1 student)

Does your Section do anything specific to attract new members? Communication of the National incentive programs
Can the National Office or newly formed Membership Committee help support your endeavours?

Comments:

- Objective to complete 1 social event and 1 local lecture fall/winter 2022

Section 4: Section Finances

Account balance \$2,956.56
 Does your Section charge members an annual fee? No
 If so, how much? N/A
 Is your Section aware that CGS financial assistance is available to Sections (Admin Manual App 4)? Yes
 Is your Section aware of the CGS Lecture Supplement Program? Yes
 Is your Section planning on sponsoring a Student/MIT to attend GeoCalgary 2022 (Admin Manual App 12)? Yes

Comments:

•

Section 5: Section Activities, July 1, 2021 to June 30, 2022			
Date	Speaker/Other	Topic/Subject	Attendance
	No in person activities held		
2021-10	Planning session for virtual presentation w/ Andre Bom	Coordinating presentation / webinar by Worldsensing for Northeastern and Northwestern Ontario CGS Sections	

Section 6: Additional information or comments

- Passed along invites to webinars, presentations, open photo contests, news contribution request, etc by various sections and committees (routinely section GSE, RGG, Western Quebec and Manitoba and newly SMFD division)
 - CGS SMFD 1st Annual Distinguished Lecture by Alex Sy
 - RGG Technical Presentation: Assessment and Design of a New Remedial Dam in NW Ontario
 - International Women's Day Event - Break the Bias (March 8th, 2022)
 - Geo-Legends Video Interview of Nordie Morgenstern
 - Regina Geotechnical Group - "Risk-based Analysis of a Complex Slide Affecting a Highway in Qu'Appelle Valley" (March 24th, 2022)
- Working on integration of Tanveer Mubarik and Syed Ahmed as contributing members of the local executive.
- Committed to assisting Manitoba Section as part of the organizing committee where they are successful in becoming the host of the 78th Annual Canadian Geotechnical Conference in September 2025.

Section 7: Do you have any specific questions or issues that you would like to bring to the attention of the Sections Representative on the CGS Executive Committee, the CGS National Office or fellow Board members?
 No

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? Yes

*Northeastern Ontario (Sudbury) Section
 Annual Report July 1, 2021 to June 30, 2022*

Formal Section Name: Northeastern Ontario (Sudbury) Section

Section 1: General

Date of this report: July 21, 2022

Prepared by: Andre Bom
 Section Director: Andre Bom
 End of Section Director's Term: TBD
 Is there a link from your separate Section website to the CGS website? N/a

Section 2: Current Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your Section webpage)

Chair: Andre Bom
 Past Chair:
 Vice Chair:
 Secretary:
 (Add others as necessary)

Section 3: Number of Section Members

Executive Committee Members:
 Total members (if possible, student and non-student members):
 Total CGS members (if possible, student and non-student members):
 Does your Section do anything specific to attract new members? Can the National Office or newly formed Membership Committee help support your endeavours?
 Comments:

•

Section 4: Section Finances

Account balance \$0
 Does your Section charge members an annual fee?
 If so, how much? \$
 Is your Section aware that CGS financial assistance is available to Sections (Admin Manual App 4)? Yes/No
 Is your Section aware of the CGS Lecture Supplement Program? Yes/No
 Is your Section planning on sponsoring a Student/MIT to attend GeoCalgary 2022 (Admin Manual App 12)? Yes/No

Comments:

•

Section 5: Section Activities, July 1, 2021 to June 30, 2022			
Date	Speaker/Other	Topic/Subject	Attendance
Sept 9/21	Dennis Becker	Forwarded Calgary Geotechnical Society event to our local CGS section contacts: Testing in Geotechnical Design	unknown
Nov 3/21	Doug Stead	Forwarded 1 st CGS National Online lecture to our local section contacts: Applications of Mixed and Virtual Reality in Engineering Geology	unknown
Feb 3/22	Worldsensing	Webinar to Northeast and Northwest Ontario sections: An introduction to LoRa-based remote monitoring in mining; Learn how to wirelessly monitor various parameters to promote safety and efficiency	19

Section 6: Additional information or comments

Section 7: Do you have any specific questions or issues that you would like to bring to the attention of the Sections Representative on the CGS Executive Committee, the CGS National Office or fellow Board members?

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? No

Southwestern Ontario (London) Section Annual Report July 1, 2021 to June 30, 2022

Formal Section Name: London & District Section of the Canadian Society for Civil Engineering (CSCE) and Canadian Geotechnical Society (CGS)

Section 1: General

Date of this report: 2022-09-15

Prepared by: Philips Aby

Section Director: Philips Aby

End of Section Director's Term: 2025

Is there a link from your separate Section website to the CGS website? Yes - <http://www.csce-cgs-london.org/LinkedIn>

Section 2: Current Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your Section webpage)

Chair: Julian N. Novick

Past Chair: Julian N. Novick

Vice Chair: Khalid Backtash MTO

Secretary: Khalid Backtash MTO

Jon Southen, University of Western Ontario

Treasurer: Grant Strachan, AECON

Vice-treasurer: John Gawley, Dillon Consulting Ltd.

Communications: Azmi Hammoud, Professor at Fanshawe College.

CGS Section Director : Philips Aby, EXP

City of London Representative: Paul Choma, City of London

Western Faculty Representative: Mike Bartlett University of Western Ontario, Jon Southen, University of Western Ontario

Section 3: Number of Section Members

Executive Committee Members: 10

Total members (if possible, student and non-student members): Aprox. 300 including CSCE

Total CGS members (if possible, student and non-student members): 18

Does your Section do anything specific to attract new members? Can the National Office or newly formed Membership Committee help support your endeavours? Networking event

Comments: Please schedule a meeting to give a clear picture of what is expected out to of the London chapter and if CGS membership committee can help advertise the upcoming events for 2022-2023.

Section 4: Section Finances

Account balance \$ as of September 20, 2022 (London section) - \$6,204.95
 Does your Section charge members an annual fee? No
 If so, how much? \$N/A
 Is your Section aware that CGS financial assistance is available to Sections (Admin Manual App 4)? No- Please provide details
 Is your Section aware of the CGS Lecture Supplement Program? Yes
 Is your Section planning on sponsoring a Student/MIT to attend GeoCalgary 2022 (Admin Manual App 12)? No – Not as of now, would like to request for a meeting to discuss all of this.

Comments:

•

Section 5: Section Activities, July 1, 2021 to June 30, 2022			
Date	Speaker/Other	Topic/Subject	Attendance
N/A	N/A	N/A	N/A

Section 6: Additional information or comments

- We have put our season on pause during the pandemic and recently started working together, we have a some combined CGS-CSCE events planned for the upcoming year. Link - <https://www.csce-cgs-london.org/>
- Would like to request a meeting with CGS Executive committee, who can give me an idea of what the executive committee expect of the London Chapter and the funding the is provided to the chapter.
- Please send any corresponding email to philips.abby@exp.com

Section 7: Do you have any specific questions or issues that you would like to bring to the attention of the Sections Representative on the CGS Executive Committee, the CGS National Office or fellow Board members?

- Would like to request a meeting with CGS Executive committee, who can give me an idea of what the executive committee expect of the London Chapter and the funding provided to the chapter.
- Please conduct an introductory session for all the new directors as all the chapters have been fairly inactive.

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? No

***Southern Ontario (Toronto) Section
 Annual Report July 1, 2021 to June 30, 2022***

Formal Section Name: Southern Ontario Section – Toronto Group

Section 1: General

Date of this report: August 25 2022
 Prepared by: Charles G. Crans P. Eng.
 Regional Director: Charles G. Crans P. Eng.
 End of Section Director’s Term: December 31 2024
 Is there a link from your separate Section website to the CGS website? Yes

Section 2: Current Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your Section webpage)

Chair: Amir Poshnejad, EllisDon Corporation

Past Chair: Dino Vito, EBS Geostructural
 Regional Director; Charles Crans, C.G. Crans Geostructural Project Services
 Treasurer: Bill Li, Keller – North America
 Secretary: Vanessa Marshall, Pinchin Ltd.
 Communications: Mike Diez de Aux, Grounded Engineering
 Membership & Awards: Vivian Weihong Li, EXP Services Inc.
 Student Liason: Rajib Dey, Kiewit Corporation
 Sponsorship: Joe Heinisch, EBS Geostructural
 Outreach & Tech: Mohammadamin Jafari, University of Toronto
 Event Co-ordinator & Registration: Isabel Perez, Terrafix Geosynthetics Inc.
 Event Co-ordinator & Registration: Andrew Cushing, ARUP Canada Inc.
 Event Co-ordinator & Registration: Budhi Karel, Ministry of Transportation (Ontario)
 Event Co-ordinator & Registration: Pedram Molkara, Jacobs Engineering Group

Section 3: Number of Section Members

Executive Committee Members: 14

Total members (if possible, student and non-student members): The List we received from National shows 272 Members in the Southern Ontario Section – Toronto Group

Total CGS members (if possible, student and non-student members): Our e-mail list has over 400 names which would include CGS Members.

Does your Section do anything specific to attract new members? Our Events are posted on our Website and on LinkedIn and are sold out in many cases. In general we see very good attendance at our Events.

Can the National Office or newly formed Membership Committee help support your endeavours?

Comments: Our Section has initiated a Women in CGS Program directed by Executive Member Isabel Perez. Information on this Program is enclosed with this Report.

Section 4: Section Finances

Account balance	\$ 66,105.62 (August 25 2022)
No Interest Loan	-\$ 26,908.63
Scholarship Fund Contribution	-\$ 4,600.00

Does your Section charge members an annual fee? We do not charge a Section Membership Fee, we charge a Fee to attend each Event to cover our costs.

Is your Section aware that CGS financial assistance is available to Sections (Admin Manual App 4)? No. Our Executive Committee does believe that a portion of the Annual CGS Membership Fees paid by our Members should be shared with our Section. This would enable us to bring in high profile Speakers for some of our Events while reducing what we must charge our local members to attend. At the present we are able to provide a limited number of discounted Student tickets to each Event. A contribution from the National CGS Fees would allow us to increase the number of Student tickets.

Is your Section aware of the CGS Lecture Supplement Program? No, but we would be interested in learning about the Program

Is your Section planning on sponsoring a Student/MIT to attend GeoCalgary 2022 (Admin Manual App 12)? No

Comments: In previous years, the winner of our January Graduate Student Competition was awarded a Registration to the National Conference. Our Section hopes to resume this award in 2023.

Section 5: Section Activities, July 1, 2021 to June 30, 2022			
Date	Speaker/Other	Topic/Subject	Attendance

Refer to the enclosed Excel Spreadsheet listing our 2021/2022 Events, Topics, Speakers, and Tickets Sold

Section 6: Additional information or comments

Section 7: Do you have any specific questions or issues that you would like to bring to the attention of the Sections Representative on the CGS Executive Committee, the CGS National Office or fellow Board members?

Refer to Section 4 above.

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? Yes

***Southeastern Ontario (Kingston) Section
Annual Report July 1, 2021 to June 30, 2022***

Section 1: General

Formal Section Name: Kingston Section

Date of report: 30 August 2022

Prepared by: E. Maria Skordaki

Section Director: E. Maria Skordaki (until a new Director is selected)

End of Term of Director: 31 Dec 2021

CGS website address: http://www.cgs.ca/section_kingston.php

Last time your Section's CGS website was updated: July 2016

If the Section has a separate website...

...please provide address: Facebook: <https://www.facebook.com/groups/843205439043445/>

...is there a link to the CGS website? No link to the Facebook page from the main CGS Page

Section 2: Current (Jan 1 - Dec 31, 2020) Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your Section webpage)

Chair/Director: Dr. E. Maria Skordaki, Royal Military College of Canada/Queen's University (Adjunct Faculty)

Past Chair: Mr. Dylan Hill, Malroz Engineering

Vice-Chair: N/A

Treasurer: Mr. David Hodgson, Malroz Engineering Inc.

Members at Large: Timothy Packulak, Queen's University - Dave Gauthier, BGC Engineering - Martin Burger, Groundwork Engineering- Dr. Nicholas Vlachopoulos, Royal Military College of Canada, David Bonneau (Queen's University).

Section 3: Number of Section Members (as of June 30, 2022)

Executive members: 9 members (3 of which are students)

Total members (if possible, student and non-student members): access to graduate students from GeoEngineering Queen's-RMC Centre, <http://www.geoeng.ca/Students.htm>

Total CGS members (if possible student and non-student members): ~120 members

Comments (point form)

- Keep an active distribution list of members; and,
- Support other organizations within Kingston and conduct joint activities i.e. GeoEng and PEO.

Section 4. Finances

As of (date): December 2021

Balance: \$ ~12,000.00

Year-End Balance (for Annual Report only): \$ \$ ~12,000.00

Does your Section charge its members an annual fee? No

If so, how much?

Is your Section aware that CGS financial assistance is available to Sections (Admin Manual App 4)? Yes.

Is your Section aware of the CGS Lecture Supplement Program (Awards Manual Section C-4)? Yes, we would like to host the CCLT venues.

Did your Section sponsor a Student/MIT to attend the last CGS Annual Conference (Admin Manual App 12)? Yes, Mr. Rodrigo Alves e Silva

Is your Section planning on sponsoring a Student/MIT to attend GeoNiagara 2021 (Admin Manual App 12)? Yes

Comments (point form)

- Our Section routinely solicits local companies (~\$200.00/year) in order to help with the operating costs of our section (primarily hosting the CCLT and Guest Speakers);
- Our current/past corporate sponsors include:
 - Caduceon Environmental Laboratories
 - Cunningham Swan Carty Little & Bonham LLP
 - DBA Engineering
 - Genivar Inc
 - Golder Associates
 - Groundwork Engineering Limited
 - Houle Chevrier
 - Insitu Remediation Services
 - Inspec Sol Inc.
 - MALROZ Engineering Inc.
 - Maxxam Analytics Inc
 - McIntosh Perry Consulting Engineers Ltd
 - Mine Design Engineering
 - Paracel Laboratories Ltd
 - Vertex Environmental Inc
 - Viner, Kennedy, Frederick, Allan & Tobias LLP
 - WESA Envir-Eau
 - Withey Addison LLP
 - Willms and Shier Environmental Lawyers LLP
 - XCG Consultants Ltd

Section 5. Activities			
Date	Speaker/Other	Topic/Subject	Attendance
Sept. 25 2022	GeoVirtual BOD Meeting		E.M. Skordaki
March 25 th 2022	The Queen's/RMC Bozozuk Forum candidates' internal competition (virtual)	Annual Student Competition between University of Ottawa, Carleton University, Queen's University and the Royal Military College of Canada.	20+ attendees (virtual)
March 31 st 2022	The 46th Annual Michael Bozozuk Student Forum (virtual, with OGG)	<u>Winner:</u> Mr. Rodrigo Alves e Silva (under the supervision of Dr. Kerry Rowe and Dr. Fady Abdelaal in the Department of Civil Engineering at Queen's University)	35+ attendees (virtual)

Section 6. Additional information or comments

Specific CGS activities for the period are listed in the Section 5 table. The Kingston Section supports and disseminates information about weekly student presentations and guest speakers that are hosted by the Queen's-RMC Geo-Engineering Centre as part of its ongoing graduate studies program.

We, as a Committee, are also keen in continuing the efforts of the Past Chair Mr. Dylan Hill with respect to establishing a shared network calendar with other Sections in Ontario. We have also approached academics and consultants across Canada and overseas with a view to inviting them for virtual talks to our Section members for the remainder of this year.

Section 7: Do you have any specific questions or issues that you would like to bring to the attention of the Sections Representative on the CGS Executive Committee, the CGS National Office or fellow Board members?

N/A

Are you planning to attend the fall board meeting, to be held virtually in September? One of our past Chairs, Dr. Nicholas Vlachopoulos, was asked to attend the fall board meeting, on behalf of our committee.

***Eastern Ontario (Ottawa) Section
Annual Report July 1, 2021 to June 30, 2022***

Formal Section Name: (please add here) Ottawa Geotechnical Group

Section 1: General

Date of this report: August 30th 2022

Prepared by: Paul Simms

Section Director:

End of Section Director's Term: June 2023

Is there a link from your separate Section website to the CGS website? Yes/No Yes

Section 2: Current Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your Section webpage)

Chair: Matt Kennedy
 Past Chair: Kenton Power
 Vice Chair: Imad Alainachi
 Secretary: Zubaida Al-Moselly
 (Add others as necessary)

Section 3: Number of Section Members

Executive Committee Members: 6
 Total members (if possible, student and non-student members): 100 estimated – we did not collect memberships this year
 Total CGS members (if possible, student and non-student members): Not known
 Does your Section do anything specific to attract new members? Can the National Office or newly formed Membership Committee help support your endeavours?
 Comments:

Section 4: Section Finances

Account balance \$ 32,000
 Does your Section charge members an annual fee? During covid, we have not charged a membership fee. Before, its was \$25, free for students
 If so, how much? \$ See above
 Is your Section aware that CGS financial assistance is available to Sections (Admin Manual App 4)? Yes/No Yes
 Is your Section aware of the CGS Lecture Supplement Program? Yes/No Yes
 Is your Section planning on sponsoring a Student/MIT to attend GeoCalgary 2022 (Admin Manual App 12)? Yes/No YES

Comments:

Section 5: Section Activities, July 1, 2021 to June 30, 2022			
Date	Speaker/Other	Topic/Subject	Attendance
June 2022	Dr. Doug Stead, Professor Emeritus, Simon Fraser University	CCLT and OGG Banquet <i>Characterizing Slope Failure Mechanisms Using Combined Remote Sensing and Numerical Modelling</i>	65
May 2022	Julien Egron, P.Eng., Menard Canada Inc.	<i>Characterizing Slope Failure Mechanisms Using Combined Remote Sensing and Numerical Modelling</i>	40 (Virtual)
March 2022	Student competition	<i>The 46th Annual Michael Bozozuk Student Forum</i> Ottawa and Kingston Graduate Students	70 (Virtual)
February 2022	Sharon K.Y. Lee, M.Sc., P.Geo., City of Ottawa	<i>Ottawa's Geoscience Information Platform</i>	35 (Virtual)
December 2021	Dr. Mehdi Pouragha, Carleton University	<i>Practical Applications of Micromechanical Models in Geotechnical Engineering</i>	45 (Virtual)

Section 6: Additional information or comments

Section 7: Do you have any specific questions or issues that you would like to bring to the attention of the Sections Representative on the CGS Executive Committee, the CGS National Office or fellow Board members?

NO

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? Yes / No
Yes

*Western Québec (Montréal) Section
Annual Report July 1, 2021 to June 30, 2022*

Formal Section Name: Western Québec (Montréal) Section

Section 1: General

Date of this report: July 15, 2022

Prepared by: Reza Saghaee

Section Director: Mourad Karray

End of Section Director's Term: 2022

Is there a link from your separate Section website to the CGS website? No

Section 2: Current Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your Section webpage)

Chair: Reza Saghaee

Past Chair: Francois Duhaime

Vice Chair: Simon-Pierre Tremblay

Treasurer: Abtin Jahanbakhsh

Communications: Mireille S. Ewane

Administration: Philippe Legault-Capozio

(Add others as necessary)

Section 3: Number of Section Members

Executive Committee Members: 9

Total members (if possible, student and non-student members): 500

Total CGS members (if possible, student and non-student members):

Does your Section do anything specific to attract new members? Can the National Office or newly formed Membership Committee help support your endeavours? All of the CGS Western Quebec Section events are free of charge for students.

Comments:

•

Section 4: Section Finances

Account balance 35 000 \$

Does your Section charge members an annual fee? No

If so, how much? N/A \$

Is your Section aware that CGS financial assistance is available to Sections (Admin Manual App 4)? Yes

Is your Section aware of the CGS Lecture Supplement Program? Yes

Is your Section planning on sponsoring a Student/MIT to attend GeoCalgary 2022 (Admin Manual App 12)? Yes

Comments:

•

Section 5: Section Activities, July 1, 2021 to June 30, 2022			
Date	Speaker/Other	Topic/Subject	Attendance
14 June 2022 (In person)	Doug Stead	Characterizing Rock Slope Failure Mechanisms Using Combined Remote Sensing and Numerical Modelling	80
26 May 2022 (In person)	Mourad Karray	Geotechnical Characteristics of Soil- Limits and Prospective	75
7 Avril 2022	Students	Concours Branko Ladanyi 2022	70
25 November 2021	Alper Sezer & Anna Chiaradonna	Geotechnical Assessment of the Site Effects and Damage Observed in Izmir Bay After the 2020 Samos Earthquake	110
19 & 26 June 2021	Mourad Karray	Workshop on Seismic and Post-seismic Analysis of Soil	100

Section 6: Additional information or comments

•

Section 7: Do you have any specific questions or issues that you would like to bring to the attention of the Sections Representative on the CGS Executive Committee, the CGS National Office or fellow Board members?

No

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? Yes

***Eastern Québec (Québec) Section
Annual Report July 1, 2021 to June 30, 2022***

Formal Section Name: Eastern-Québec

Section 1: General

Date of this report: July 15, 2022

Prepared by: Vincent Castonguay

Section Director: Vincent Castonguay

End of Section Director's Term: December 2024

Is there a link from your separate Section website to the CGS website? No

Section 2: Current Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your Section webpage)

Chair: Julie Therrien

Secretary: Kevin Hébert

Administrator: Sarah Bouchard

Treasurers: Thomas Fournier & Jonathan Leblanc

Communications: Sandra Veillette

Technical program: Olivier Juneau, Pierre-Olivier Maltais & Pierre-Olivier Dionne

Scholarships: Jean-Pascal Bilodeau

Newsletter: Valérie Michaud

Student representative: Andries Kirstein

Section 3: Number of Section Members

Executive Committee Members: 13

Total members (if possible, student and non-student members): 464 local participants (distribution list)

Total CGS members (if possible, student and non-student members): 54 (10 students, 44 non-students)

Does your Section do anything specific to attract new members? Can the National Office or newly formed Membership Committee help support your endeavours?

Comments:

- At the start of every conference we hold, we advertise that their CGS national membership allows us to continue to operate and organize these conferences. We should do more, and this is something I'll be keeping a close eye on for the years to come.

Section 4: Section Finances

Account balance \$86,740.45 (checking) + \$24,261.18 (investments)

Does your Section charge members an annual fee? No

If so, how much? \$

Is your Section aware that CGS financial assistance is available to Sections (Admin Manual App 4)? Yes

Is your Section aware of the CGS Lecture Supplement Program? Yes

Is your Section planning on sponsoring a Student/MIT to attend GeoCalgary 2022 (Admin Manual App 12)? Yes

Section 5: Section Activities, July 1, 2021 to June 30, 2022			
Date	Speaker/Other	Topic/Subject	Attendance
Sept. 22, 2021	Ali Saedi	Territory vulnerability to slope instabilities	44
Nov. 11, 2021	Alejo Sfrisco	Case history of TBM tunnel in Argentina	22
Dec. 2, 2021	Alireza Shahbazi	Inflow rate in tunnel excavated in fractured rock mass	35
Feb. 4, 2022	Jacques Locat	Characterization of an important sediment layer	76
Feb. 25, 2022	Floriane Provost	Multi-instrumental monitoring of landslides	44
March 25, 2022	Sarah Bouchard	Usage of explosives near quick clays	100
April 21, 2022	Erdrick Leandro Perez-Gonzalez	Permanent deformation of an embankment dam's core	54
May 18, 2022	Martin Blouin	Site characterization with combined seismic methods	48

Section 6: Additional information or comments

•

Section 7: Do you have any specific questions or issues that you would like to bring to the attention of the Sections Representative on the CGS Executive Committee, the CGS National Office or fellow Board members?

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? Yes

***New Brunswick (Fredericton) Section
Annual Report July 1, 2021 to June 30, 2022***

Formal Section Name: New Brunswick (Fredericton) Section

Section 1: General

Date of this report: September 15, 2022

Prepared by: Christopher McQueen
 Section Director: Christopher McQueen
 End of Section Director's Term: Christopher McQueen
 Is there a link from your separate Section website to the CGS website? Yes/No No

Section 2: Current Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your Section webpage)

Chair: Christopher McQueen
 Past Chair: Benjamin McGuigan
 Vice Chair: Sam Oshati
 Secretary: Christiane Levesque
 Treasurer: Rochelle Staples

Section 3: Number of Section Members

Executive Committee Members: 5
 Total members (if possible, student and non-student members): ~ 20 (can't access region members on website)
 Total CGS members (if possible, student and non-student members): ~ 20
 Does your Section do anything specific to attract new members? Can the National Office or newly formed Membership Committee help support your endeavours?
 Comments:
 • Looking for new methods to attract members locally such as master's student presentations. Partaking in events with Nova Scotia chapter.

Section 4: Section Finances

Account balance \$78.11
 Does your Section charge members an annual fee? No
 If so, how much?
 Is your Section aware that CGS financial assistance is available to Sections (Admin Manual App 4)? Yes/No Yes
 Is your Section aware of the CGS Lecture Supplement Program? Yes/No Yes
 Is your Section planning on sponsoring a Student/MIT to attend GeoCalgary 2022 (Admin Manual App 12)? Yes/No Yes

Comments:
 • Working with UNB and U de Moncton profs on getting students as members, present to section members and look to attend future annual conferences.

Section 5: Section Activities, July 1, 2021 to June 30, 2022			
Date	Speaker/Other	Topic/Subject	Attendance
March 23, 2022	Caleb Coulston	Coupled Thermo-Mechanical Processes In DGRs Proposed For Nuclear Fuel Storage	10
June 13, 2022	Douglas Stead	Characterizing rock slope failure mechanisms using combined remote sensing and numerical modelling.	25

Section 6: Additional information or comments

•

Section 7: Do you have any specific questions or issues that you would like to bring to the attention of the Sections Representative on the CGS Executive Committee, the CGS National Office or fellow Board members?

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? Yes / No
No – can't get away from work and the cost is too much without company support.

Nova Scotia (Halifax) Section
Annual Report July 1, 2021 to June 30, 2022

Formal Section Name: Nova Scotia (Halifax) Section

Section 1: General

Date of this report: July 12, 2022

Prepared by: Vince Goreham

Section Director: Vince Goreham

End of Section Director's Term: December 31, 2022

Is there a link from your separate Section website to the CGS website? Yes/No (N/A)

Section 2: Current Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your Section webpage)

Chair: Vince Goreham (Harbourside Geotechnical Consultants)

Past Chair: Ilia Wainshtein (Wood)

Vice Chair: Justin Matthew (PSPC)

Secretary:

Section 3: Number of Section Members

Executive Committee Members: 3

Total members (if possible, student and non-student members): 21 Non-Student, 4 Student

Total CGS members (if possible, student and non-student members): 21 Non-Student, 4 Student

Does your Section do anything specific to attract new members? Can the National Office or newly formed Membership Committee help support your endeavours?

We haven't done much to date, but I'm going to campaign locally with the goal of growing membership over 35 people for next year. There are numerous people who just need a reminder to register each year – is it possible to automate this reminder (via e-mail) on a national level? I know in the past I have forgotten as many consultants tend to only deal with issues directly in front of them.

Section 4: Section Finances

Account balance \$16, 546.47

Does your Section charge members an annual fee? No

If so, how much? \$ n/a

Is your Section aware that CGS financial assistance is available to Sections (Admin Manual App 4)? Yes

Is your Section aware of the CGS Lecture Supplement Program? Yes, but not the specific details.

Is your Section planning on sponsoring a Student/MIT to attend GeoCalgary 2022 (Admin Manual App 12)? No

Section 5: Section Activities, July 1, 2021 to June 30, 2022			
Date	Speaker/Other	Topic/Subject	Attendance

Section 6: Additional information or comments

- No activities hosted. Will plan a social activity in August/September.

Section 7: Do you have any specific questions or issues that you would like to bring to the attention of the Sections Representative on the CGS Executive Committee, the CGS National Office or fellow Board members?

No.

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? Yes / No

No. It doesn't look like it will fit in my schedule. I see two options – Justin Matthew attend in my absence or potentially joining virtually – if acceptable.

**Newfoundland and Labrador (St. John's) Section
Annual Report July 1, 2021 to June 30, 2022**

Formal Section Name: St John's Section

Section 1: General

Date of this report: July, 12, 2022
 Prepared by: Shawn Russell
 Section Director: Shawn Russell
 End of Section Director's Term: May 1, 2023
 Is there a link from your separate Section website to the CGS website? No

Section 2: Current Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your Section webpage)

Chair: Shawn Russell, GEMTEC Consulting Engineers and Scientists Limited
 Past Chair/Treasurer: Andrew Peach, Hatch Ltd.
 Vice Chair: Ashutosh Dhar, Memorial University of Newfoundland and Labrador
 Secretary: Jin Chen, C-Core
 Executive Member: Ripon Karmaker, Stantec Consulting Ltd,
 (Add others as necessary)

Section 3: Number of Section Members

Executive Committee Members: 5
 Total members (if possible, student and non-student members): 18
 Total CGS members (if possible, student and non-student members): 12

Does your Section do anything specific to attract new members? Can the National Office or newly formed Membership Committee help support your endeavours? Yes

Comments:

- Ice breaker planned for September 2022 at Memorial University of NL

Section 4: Section Finances

Account balance \$37,404.72

Does your Section charge members an annual fee? No
 If so, how much? N/A
 Is your Section aware that CGS financial assistance is available to Sections (Admin Manual App 4)? Yes
 Is your Section aware of the CGS Lecture Supplement Program? Yes
 Is your Section planning on sponsoring a Student/MIT to attend GeoCalgary 2022 (Admin Manual App 12)? Yes

Comments:

- To be determined by executive

Section 5: Section Activities, July 1, 2021 to June 30, 2022 (NONE)			
Date	Speaker/Other	Topic/Subject	Attendance

Section 6: Additional information or comments

-

Section 7: Do you have any specific questions or issues that you would like to bring to the attention of the Sections Representative on the CGS Executive Committee, the CGS National Office or fellow Board members?

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? Yes

TECHNICAL DIVISION REPORTS

Technical Divisions Representative Summary Annual Report – Thomas Pabst

Divisions and Committees Representative Summary Report

Year End Report

Jul 1, 2021 to June 30, 2022

Section 1: General

Date of report: August 1st, 2022

Prepared by: Thomas Pabst, Divisions and Committees Representative

End of Term: December 31st, 2022

Section 2: Members

Divisions	Chair	Term	EC Mbers	Women in EC	Members 1 st /2 nd choices
Cold Regions Geotechnology	Ryley Beddoe	2022	6	2 (33%)	
Engineering Geology	Andrew Peach	2024	7	1 (14%)	
Geoenvironmental	Vincent Martin	2023			
Geosynthetics	Fady Abdelaal	2023	3	0 (0%)	
Groundwater	François Duhaime	2023	3	0 (0%)	
Rock Mechanics	Jennifer Day	2023			
Soil Mechanics and Foundation	Laifa Cao	2022	10	0 (0%)	
Committees	Chair	Term	EC Mbers	Women in EC	Members
Education	Pooneh Maghoul	2022	10	4 (40%)	
Geohazards	Scott McDougall	2022*	3	1 (33%)	
Heritage	Heinrich Heinz	2022	14	0 (0%)	
Mining Geotechnique	Thomas Pabst	2022*	5	2 (40%)	
Professional Practice	Seán Mac Eoin	2022	15	3 (20%)	
Sustainable Geotechnics	Catherine Mulligan	2023	2	1 (50%)	
Transportation Geotechnique	Harpreet Panesar	2023	4	0 (0%)	
Membership	David Wood	2022	7	3 (43%)	

*In red: Terms ending this year; * New Chairs already identified*

Many Chairs are planned to end their term this year. An email was sent on August 1, 2022 to encourage them to start the process of nominating a new Chair as soon as possible and no later than during the Annual Conference to facilitate the transition and avoid any vacancy.

Section 3: Affiliations with other organizations

- Cold Regions Geotechnology: Canadian Permafrost Association (CPA)
Canadian National Chapter for Int. Permafrost Association
ASCE Cold Regions Division Liaison
International Permafrost Association
- Engineering Geology: Association of Geohazard Professionals
Canadian Federation of Earth Scientists (CFES)
AEG, Engineering Geology Division
GSA, Environmental and Engineering Geology Division
IAEG
- Geoenvironmental: -
- Geosynthetics: IGS – North America (IGS-NA)
International Geosynthetics Society (IGS)
- Groundwater: Int. Association of Hydrogeologists – Canadian National Chapter
- Rock Mechanics: Canadian Rock Mechanics Association (CARMA)
Int. Society of Rock Mechanics and Rock Engineering (ISRM)
- Soil Mechanics and Foundations: Int. Society of Soil Mechanics and Geotechnical Engineering
- Education -
- Geohazards US Association of Engineer. and Environmental Geologists (AEG)
International Association of Engineering Geologists (IAEG)
- Heritage Engineering Institute of Canada (History and Archives Com.)
- Mining Geotechnique -
- Professional Practice Geoprofessional Business Association (formerly ASFE)
- Sustainable Geotechnics ISSMGE TC 307
- Transportation Geotechnique Transportation Association of Canada (TAC)
Rail Ground Hazard Research Project (RGHRP)
AEG Association of Engineering Geology
ISSMGE-TC202 Transportation Geotechnics
- Membership -

Section 4: Finances

- Cold Regions: \$12,776
- GeoHazards: \$10,100
- Soil Mechanics and Foundation: \$1,908.90
- Other Divisions' and Committees' account balance was reportedly \$0

Section 5: Division Awards

Robert N. Farvolden Award (Groundwater), Robert Schuster Medal (Geohazards), G Geoffrey Meyerhof Award (Soil Mechanics & Foundation), Thomas Roy Award (Engineering Geology), Roger JE Brown Award (Cold Regions Geotechnology), Geosynthetics Award and Geoenvironmental Award were all awarded this year. Respective Div&Com Chairs were actively engaged in the nomination process. Winners will be announced during CGS Awards Banquet on October 4 in Calgary.

Section 6: Activities in past year (July 1, 2020 to June 30, 2021)

- Activities have been significantly affected by the pandemic, this year again, but things have reached a certain pace with regular online meetings and activities (and also the progressive return to a “normal life”). Most Div&Com had several online meetings with their EC members during the last year and better communication with their active members.
- Many webinars and online events were organized during the last year. Attendance was varying but usually good.
- Divisions and Committees’ Chairs were encouraged to submit articles to Canadian Geotechnique with a rather good response. Chairs were also involved in the publication of thematic special issues such as Rock Mechanics (Spring 2022) and Heritage (Fall 2022). Div&Com have accepted the calendar for News articles during the last Board Meeting, and the response was in general good (however, not all have contributed yet/in time, so there is still space for some improvements).
- Div&Com webpages on CGS website were updated in August 2021.
- Divisions and Committees participation to GeoNiagara Conference (paper review, attendance) as been good, especially considering the particular situation). Very few people attended annual meetings organized during GeoNiagara conference though. Most of Div&Com therefore organized annual meetings online.

Section 7: Activities planned for the coming year

- Many Divisions and Committees plan to organize (or continue to organize) online seminars and workshop in the coming year.
- Most Divisions and Committees volunteer to help with the next CGS Annual conference organisation (incl. courses, special sessions and paper review). Div&Com’ Chairs and Members also continue to be largely involved in the organization of several local and international conferences (e.g., GeoHazards 9, RockEng22, GeoAmericas 2024).
- Submit more and more regularly articles to Canadian Geotechnique (technical section and News section). Heritage Committee is working on implementing an “International Page” with international contributions.
- A new update of Div&Com webpages is planned for Summer 2022.
- Most Division and Committee Chairs have mentioned their intention to reinforce their EC with new members and increase communications within their groups to attract more members. They all show the will to make a better use of CGS SNS and newsletter eNews to increase their visibility. Discussions are currently ongoing with CGS EC to propose improvements to current practices regarding communications.
- Most Division and Committee Chairs plan to attend GeoCalgary in person and to hold their annual meeting in person there.

Section 8: Additional information or comments

- Most Divisions and Committees Chairs plan to attend the fall board meeting.

***Cold Regions Geotechnology Division
Annual Report July 1, 2021 to June 30, 2022***

Division Name: Cold Regions Geotechnology

Section 1: General

Date of this report: July 15th 2022

Prepared by: Ryley Beddoe

Division Chair: Ryley Beddoe

End of Division Chair’s Term: December 31 2022

1) List one, or two or three (or more) specific things that your Division will be working on, or wishes to accomplish, during the next year (2022/2023)?

- Encourage active participation of members in GeoCalgary (both in person and virtually), preparing for the 2024 International Conference on Permafrost being held in Canada, and other online cold regions conferences in the coming year (EuCOP 2023, CPA AGM in Dawson City 2022, etc).
- Promote and encourage discounted membership for CGS members to the Canadian Permafrost Association
- Provide information, news and updates related to cold region engineering topics 1st and 2nd choice members in an engaging and ongoing manner

Section 2: Current (as of January 1, 2022) Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your Division webpage)

Chair: Ryley Beddoe, Royal Military College, Kingston, ON
 Past Chair: Jack Seto, BGC Engineering Inc., Edmonton, AB
 Vice Chair:
 Secretary:
 Members: Marolo Alfaro, University of Manitoba, Winnipeg, MB
 Simon Dumais – Université Laval, Québec City, QC
 Ed Hoeve – HovEng Consulting Ltd., Yellowknife, NT
 Heather Brooks, Université Laval, Québec City, QC

Section 3: Number of Division Members (as of June 30, 2022)

Executive Committee Members: 6

1st Choice members: 83

2nd Choice members: 206

Comments:

•

Section 4: Is your Division affiliated with other organizations? (Admin Manual Section 6 and App 10 and 26)

If yes:

National affiliates and name(s) of CGS representative(s)

- The Canadian Permafrost Association (CPA) was established in 2018, represented by Lukas Arenson as Past President.
- The Canadian National Chapter for International Permafrost Association (CNC-IPA), represented by Ed Hoeve on the Executive Committee of CNC-IPA who is also an Executive member of the Cold Regions Geotechnology Division (CRGD).

•

North American affiliates and name(s) of CGS representative(s)

- The ASCE Cold Regions Division Liaison, represented by Heather Brooks (also a member of the CRGD executive committee)

International affiliates and name(s) of CGS representative(s)

- International Permafrost Association, represented by Lukas Arenson, Richard Fortier on Permafrost Engineering Interest Group

•

Section 5: Division Finances (as of June 30, 2022)

Account Balance: \$ 12,776

Comments:

•

Section 6: Division Activities in past year (July 1, 2021 to June 30, 2022)

- Attendance of members at the GeoNiagara
- Division meeting held virtually
- Nominations received, and selection of 2022 Roger JE Brown Award winner
- Members invited and attended Canadian Permafrost Association and PermafrostNET AGM in November, Regional Conference on Permafrost in October

Section 7: Additional information or comments

- Note: Limited activities and initiatives this year (not ideal, largely driven by the Chair's sabbatical). The goal will be to improve on activities and initiatives in the coming years

Section 8: Do you have any specific questions or issues that you would like to bring to the attention of the Division Representative on the CGS Executive Committee; the CGS National Office or fellow Board members?

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this September? Yes / No
– Yes

***Engineering Geology Division
Annual Report July 1, 2021 to June 30, 2022***

Division Name: ENGINEERING GEOLOGY DIVISION

Section 1: General

Date of report: 1 August 2022

Prepared by: Andrew Peach

Division Chair: Andrew Peach

End of Division Chair's Term: December 31st 2024

Division's CGS web page address: http://www.cgs.ca/division_engineering_geology.php

Last time your Division's CGS web page was updated: April 2020

If your Division has a separate website please provide address: No

Is there a link from your separate Division website to the CGS website?: No

List one, or two or three (or more) specific things that your Division will be working on, or wishes to accomplish, during CGS year (2022/2023).

- Young Members Initiatives. A proposal to fund participation of students to CGS conferences will be put forward to make it more affordable and accessible, including options from local chapter sponsorship and engagement in Executive and Divisional activities – Carry over from previous annual report, need to re-evaluate.
- Engineering Geology in Canada website /on-line Monograph – Carry over from previous annual report, need to re-evaluate.
- Define Engineering Geology (and associated branches etc.) and harmonize this definition with provincial, national, and international standards – Ongoing initiative, some progress made.
- Evaluate a potential name change of the division to include Geological Engineering, as part of defining the division membership and their scope of practices – Carry over from previous annual report, need to re-evaluate.
- Proactively solicit nominations for EG awards including Thomas Roy Award, Hans Cloos Medal, Richard Wolters Prize, etc. - Ongoing initiative, some progress made.

Section 2: Current (as of June 30, 2022) Executive Committee Members and their Affiliations (employers or, if students, universities (these will be posted on your Division webpage)

Chair: Andrew Peach, Hatch Ltd, Newfoundland (*started 01 Jan 2022*)
Past Chair: Stephen Butt, Memorial University, Newfoundland
Vice Chair: Nicholas Vlachopoulos, Royal Military College of Canada, Ontario
Secretary: Eliane Cabot, Hatch Ltd, Mississauga
Members-at-Large: Renato Macciotta, University of Alberta, Alberta
David Wood, D. F. Wood Consulting, Sudbury
Brad Forbes, Young Professional Representative on EGD Executive, PhD Student, Queen's University, bradforbes1@gmail.com

Section 3: Number of Division Members (as of 30 June 2022)

Executive Committee Members: 7

1st Choice members: 101

2nd Choice members: 298

Section 4: Is your Division affiliated with other organizations? (Admin Manual Section 6 and App 10 and 26) - YES

National Affiliates:

- Association of Geohazard Professionals <http://www.geohazardassociation.com/>
- Canadian Federation of Earth Scientists (CFES, <http://earthsciencescanada.com/cfes/>) (Nicholas Vlachopoulos, CGS Representative)
- North American affiliates: - AEG for the Engineering Geology Division www.aegweb.org/
- Environmental and Engineering Geology Division GSA www.geosociety.org/egd/

International Affiliates:

- IAEG - CGS representatives – Canada (**Ian Moore**, CGS President and **Andrew Peach**, National Representative),
- IAEG VP for North America started in Jan 2019 – **Dr. Jean Hutchinson** named as IAEG VP as determined by the National CGS Executive.

Section 5: Division Finances (as of June 30 2022)

Account Balance: \$8,836.00 – needs to be confirmed

- Need to confirm how to access these funds for use/support with EG initiatives.

Section 6. Division Activities in past year (July 1, 2021 to June 30, 2022) (point form)

- **Dr. Peter Quinn** was awarded the Thomas Roy Award for 2022 to be announced at CGS2022 GeoCalgary. A total of 4 nominations were received from the EGD membership.
- Chair **Andrew Peach** is conducting a study into defining Engineering Geology to assist with defining the academic/professional requirements and scope of practice to assist, in part, with determining licensure requirements.
- PEGNL undertook an initiative to define the scope of practice for Geotechnical Engineers, Geological Engineers, and Engineering Geologists with the goal to provide clarity on overlapping scopes of practice as well as to determine what might be considered restricted scopes of practice specific to each discipline. The EGD reached out to international bodies and national ones in an attempt to standardize such definitions and provided feedback to PEGNL
- During the reporting period, the EGD Executive had several regularly scheduled meetings and a virtual AGM in the Fall, and the EGD Past Chair attended the Fall CGS Board meeting.

Section 7. Additional information or comments (point form)

- Very appreciative of the efforts and support provided by the current CGS National Executive.

- 2022 IAEG Executive Committee and Council Meetings to be held September 13-14th via Zoom, **Andrew Peach** to attend as National Representative.

Section 8. Do you have any specific questions or issues that you would like to bring to the attention of the Division Representative on the CGS Executive Committee or the CGS National Office?

- Would like to determine how the Division can spend its budget on relevant venues for the benefit of CGS members.
- How can CGS National Office help us communicate with our division members and facilitate virtual meetings?

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? Yes

**Geoenvironmental Division
Annual Report July 1, 2021 to June 30, 2022**

Division Name: GeoEnvironmental Division

Section 1: General

Date of this report:	5 September 2022
Prepared by:	Vincent Martin
Division Chair:	Vincent Martin
End of Division Chair's Term:	2024

1) List one, or two or three (or more) specific things that your Division will be working on, or wishes to accomplish, during the next year?

Regular webinars and special session at the next conference in Saskatoon.

Section 2: Current Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your Division webpage)

Chair: Vincent Martin, WSP-Golder
 Past Chair: Magdalena Krol, York U
 Vice Chair: TBD
 Secretary: TBD
 (Add others as necessary)

Section 3: Number of Division Members

Executive Committee Members:

1st Choice members: 91

2nd Choice members: 195

Comments:

-
-

Section 4: Is your Division affiliated with other organizations? (Admin Manual Section 6 and App 10 and 26)

If yes:

National affiliates and name(s) of CGS representative(s)

-

North American affiliates and name(s) of CGS representative(s)

-

International affiliates and name(s) of CGS representative(s)

•
Comments:

•

Section 5: Division Finances

Account Balance: \$

Comments:

- I didn't know that I had an account.

•

Section 6: Division Activities in past year

- Virtual annual meeting.
- Two webinars in November 2021 and January 2022.

Section 7: Additional information or comments

•

•

Section 8: Do you have any specific questions or issues that you would like to bring to the attention of the Division Representative on the CGS Executive Committee; the CGS National Office or fellow Board members?

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? Yes / No
Yes

Geosynthetics Division
Annual Report July 1, 2021 to June 30, 2022

Division Name: (Geosynthetics)

Section 1: General

Date of this report: July 12, 2022

Prepared by: Fady Abdelaal

Division Chair: Fady Abdelaal

End of Division Chair's Term: December 31, 2023

1) List one, or two or three (or more) specific things that your Division will be working on, or wishes to accomplish, during the next year?

- Work with IGS-NA to host GeoAmericas 2024 in Toronto
- Work with IGS-NA on hosting the 13th International Conference of Geosynthetics in Montreal in September 2026
- Develop a short course on geosynthetics for GeoSaskatoon 2023.

Section 2: Current Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your Division webpage)

Chair: Fady Abdelaal, Queen's University

Past Chair: René Laprade, TenCate Geosynthetics/Solmax

Vice Chair: Eric Blond (EB Consultant) and Prabeen Joshi (Layfield Group)

Secretary:
(Add others as necessary)

Section 3: Number of Division Members

Executive Committee Members:

1st Choice members: **43**

2nd Choice members: **191**

Comments:

- **As of September 25 2021**
-

Section 4: Is your Division affiliated with other organizations? (Admin Manual Section 6 and App 10 and 26)

If yes:

National affiliates and name(s) of CGS representative(s)

- IGS – North America (IGS-NA; formerly known as NAGS)

North American affiliates and name(s) of CGS representative(s)

- International Geosynthetics Society (IGS)

International affiliates and name(s) of CGS representative(s)

•

Comments:

- IGS – North America has created a non-voting liaison position for CGS on the IGS-NA Board of Directors

Section 5: Division Finances

Account Balance: \$

Comments:

- No money generated in 2022
-

Section 6: Division Activities in past year

- Held division meeting after GeoNiagra conference 2021
- Assist with IGS North America bid on hosting the 13th International Conference of Geosynthetics in Montreal in September 2026
- Assist with coordination for GeoAmericas 2024 in Toronto.
- Coordinating with the organizing committee of GeoSaskatoon 2023 and IGS-NA for Geosynthetics sessions and supporting the conference
- Coordinated for the Geosynthetics Division award for 2022. .

Section 7: Additional information or comments

•

•

Section 8: Do you have any specific questions or issues that you would like to bring to the attention of the Division Representative on the CGS Executive Committee; the CGS National Office or fellow Board members?

- No

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? Yes / No

- Yes

Groundwater Division
Annual Report July 1, 2021 to June 30, 2022

Division Name: Groundwater Division (GWD)

Section 1: General

Date of this report: July 26th, 2022

Prepared by: François Duhaime

Division Chair: François Duhaime

End of Division Chair's Term: December 31st, 2023

1) List one, or two or three (or more) specific things that your Division will be working on, or wishes to accomplish, during the next year?

1. Add some content on the website. The website only gives the names of the executive committee members.
2. Offer more activities.

Section 2: Current Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your Division webpage)

Chair: François Duhaime, ÉTS

Past Chair: Jasmin Raymond, INRS

Vice Chair: Dylan Stafford, University of Manitoba

IAH/CNC representative (non-voting): Brian Smerdon, University of Alberta

Section 3: Number of Division Members

Executive Committee Members: 3

1st Choice members: 18

2nd Choice members: 171

Section 4: Is your Division affiliated with other organizations? (Admin Manual Section 6 and App 10 and 26)

International Association of Hydrogeologists – Canadian National Chapter.

Comments:

The CGS-GWD is affiliated to the Canadian National Chapter of the International Association of Hydrogeologists (IAH-CNC). The GWD chair is a non-voting member of the Executive of the IAH-CNC and, likewise, the chair of the IAH-CNC (Brian Smerdon) is a non-voting member of the Executive Committee of the GWD.

Section 5: Division Finances

Account Balance: 0 \$

Comments:

- The GWD does not require an annual fee and have no budget for operations. The GWD relies on volunteers to organize activities of interest to the scientific community concerned with groundwater.

Section 6: Division Activities in past year

- The annual meeting of the GWD was held on January 27th 2022. The meeting was advertised with an email to the GWD members. Participation was stronger than usual with around 10 attendees. It was agreed to use Zoom for the

next annual meetings to increase the number of participants. Communication with members and potential activities were discussed. The next GWD activity will be centred on the presentation of the new chapter on Groundwater control in the Canadian Foundation Engineering Manual. Harry Oussoren is in charge of organizing this activity. We hope that this event can be held in the coming months.

- The CGS shares the Robert N. Farvolden Award with the IAH-CNC. The GWD chair met with John Molson, Jim Roy, and Brian Smerdon on March 24, 2022.

Section 7: Additional information or comments

- N/A

Section 8: Do you have any specific questions or issues that you would like to bring to the attention of the Division Representative on the CGS Executive Committee; the CGS National Office or fellow Board members?

- N/A

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? Yes

Rock Mechanics Division
Annual Report July 1, 2021 to June 30, 2022

Division Name: Rock Mechanics Division

Section 1: General

Date of this report:	September 27, 2022
Prepared by:	Jennifer Day (Queen's University)
Division Chair:	Jennifer Day (Queen's University)
End of Division Chair's Term:	December 31, 2023

1) List one, or two or three (or more) specific things that your Division will be working on, or wishes to accomplish, during the next year?

CARMA's RockEng22, the highly anticipated 22nd Canadian Rock Mechanics Symposium was held during August 8-10, 2022 in Kingston, Ontario and organized by Dr. Jennifer Day (Symposium Chair) and Dr. Mark Diederichs (Technical Chair). By all accounts the symposium was a fantastic success! The event was sold out at 150 delegates with more than 15 people on a waiting list, and delivered exceptional value for the registration price to delegates, thanks to generous sponsorships from Rocscience Inc. and RockEng Inc. (Gold Sponsors), Geobruigg, Itasca Consulting Group, and YieldPoint (Silver Sponsors), SRK, Agnico Eagle, ESG Solutions, KGS Group, Normet, Terrane Geoscience Inc., and BGC Engineering Inc. (Bronze Sponsors), Queen's Geomechanics and Geohazards Group, Tunnelling Association of Canada, and CIM Rock Engineering Society (Banquet Dinner Sponsors), and Innovative Geomechanics Inc., Thurber Engineering Ltd., Geomechanica, Geofirma, WSP Golder, Grounded Engineering, Bestech, and Institute of Mine Seismology (Lunch, Breakfast, and Coffee Break Sponsors). The single-track technical sessions featured 36 invited speakers from the Canadian rock mechanics and rock engineering community (academia and industry), including speakers from all career levels (veterans, mid-career, and rising stars) and engineering disciplines involving rock mechanics and rock engineering. In addition, there were 32 poster presentations selected based on abstract submissions. The Best Poster Award was presented to Apostolos Vasileiou, Matthew Perras, and co-authors for their abstract and poster titled "Numerical and machine learning based approaches to study the influence of environmental conditions on crack growth in the Theban

Necropolis, Egypt”. The social program featured a 1000 Islands Sunset Dinner Boat Cruise and Technical Tour and Banquet Dinner inside the Brockville Tunnel. The concluding workshop was a critical part of the symposium where all 150 attendees discussed our shared vision for the Canadian rock mechanics community and future events. For more information: <https://www.rockeng2020.com/>

CARMA awarded the inaugural Prof. Doug Stead PhD Thesis Award in August 2022 during RockEng22, the 22nd Canadian Rock Mechanics Symposium in Kingston, Ontario, to Dr. Jonathan Aubertin for his PhD thesis completed at Queen’s University titled “Characterization of rock salt response to blasting using terrestrial laser scanning technology”. This is designed to be an annual award – see our website for more information: <http://www.carma-rocks.ca/awards/>

Led by Jonathan Aubertin and Ghasem Shams, RMD organized a Workshop for the GeoCalgary 2022 Conference that will be held on Sunday October 2nd, 2022. The Workshop is titled “Rock Engineering in Mountainous Terrain” (instructed by Emily Rowe, Marc-André Brideau, Matthieu Sturzenegger, and Matthew Cleary).

We are also working on launching a series of special projects in RMD:

1. Updates to RMD John A Franklin Award were submitted to CGS Executive and are awaiting CGS Board Approval at the Oct 1, 2022 meeting in Calgary (led by Jennifer Day and Jonathan Aubertin)
2. Updates to RMD Webpage on CGS Website (led by Jennifer Day, Eliane Cabot, and Davide Elmo)
3. Student design competition (led by Wenbo Zheng and Biao Li)
4. Recruitment packages for Canadian undergraduate programs that involve rock mechanics (e.g. geological engineering, mining engineering, civil engineering) (led by Jennifer Day and Davide Elmo)
5. RMD scholarship for undergraduate students (led by Biao Li and Wenbo Zheng)

Section 2: Current Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your Division webpage)

Chair: Jennifer Day, Queen’s University
Past Chair: Mohsen Nicksiar, SNC-Lavalin Inc.
Vice Chair: Eliane Cabot, Hatch
Secretary: Ghasem Shams, Université de Sherbooke
Member: Jonathan Aubertin, École de Technologie Supérieure
Member: Davide Elmo, University of British Columbia
Member: Biao Li, Concordia University
Member: Wenbo Zheng, University of Northern British Columbia

Section 3: Number of Division Members

Executive Committee Members: 8
1st Choice members : 102
2nd Choice members : 272
Comments:

Section 4: Is your Division affiliated with other organizations? (Admin Manual Section 6 and App 10 and 26)

If yes:

National affiliates and name(s) of CGS representative(s)

- Canadian Rock Mechanics Association (CARMA): Jennifer Day (as Chair), Eliane Cabot (as Treasurer), and Jonathan Aubertin (as CGS Representative)

International affiliates and name(s) of CGS representative(s)

- International Society of Rock Mechanics and Rock Engineering (ISRM) via CARMA and in collaboration with Laura Pyrak-Nolte (ISRM VP North America)

Comments:

- The next VP North America for ISRM is expected to be from Canada. CARMA has voted to nominate Martin Grenon.

Section 5: Division Finances

Account Balance: Unknown

Section 6: Division Activities in past year

- Proposal for CARMA-RMD Best Paper Award for Young Professionals in Rock Mechanics or Rock Engineering was approved by CGS Board in October 2021 at the GeoNiagara board meeting – work is outstanding to implement award in annual CGS conference
- RMD Special Issue for CGS Geotechnique Magazine in Summer 2022 issue featured 6 technical paper and 2 cover photograph contributions from RMD members
- RMD Executive Committee held meetings in Sept 2021 (AGM at GeoNiagara conference), Jan 2022 (via Zoom), and May 2022 (via Zoom)
- In April 2022, Jennifer Day worked with CARMA to submit nomination to the ISRM Müller Award for Dr. Derek Martin (award nomination is currently under review)
- RMD Executive Committee members Biao Li and Wenbo Zheng, and RMD member Doug Stead, served on the CARMA Award Committee to determine the winner of CARMA's inaugural Prof. Doug Stead PhD Thesis Award
- Jonathan Aubertin (nominated by Jennifer Day) joined the CARMA Executive Committee as a CGS Representative in January 2022
- RMD Member Kathy Kalenchuk created an online lecture for the ISRM Commission on Deep Mining in June 2022 titled "Seismic hazard prediction and mechanical characterization using calibrated mine-scale and local-scale numerical models".

Section 7: Additional information or comments

- Thank you to Michel, Lisa, Emily, Thomas, and the rest of the CGS Executive for your continued support of the recent and upcoming RMD activities!

Section 8: Do you have any specific questions or issues that you would like to bring to the attention of the Division Representative on the CGS Executive Committee; the CGS National Office or fellow Board members?

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? Yes / No

Soil Mechanics and Foundations Division
Annual Report July 1, 2021 to June 30, 2022

Division Name: Soil Mechanics and Foundation

Section 1: General

Date of this report: July 13, 2022

Prepared by: Laifa Cao

Division Chair: Laifa Cao

End of Division Chair's Term: 2022

1) List one, or two or three (or more) specific things that your Division will be working on, or wishes to accomplish, during the next year?

- Select 2023 G.G. Meyerhof Award

- Organize 2nd CGS SMFD Distinguished Lecture
- Selected speaker for 3rd CGS SMFD Distinguished Lecture
- Soil Mechanics and Foundation Special Section in 2023 Canadian Geotechnique.
- Selected new division executive members and new division chair
- Division annual meeting in GeoCalgary
- Review abstracts and papers for CGS annual conference
- Involve in the Quigley Award selection and Colloquium selection
- Organize workshops of soil mechanics and foundation

Section 2: Current Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your Division webpage)

Chair: Laifa Cao, WSP

Past Chair: Alex Baumgard, BGC Engineering Inc.

Vice Chair: Lijun Deng, University of Alberta

Executive Member: Amir Poshnejad, EllisDon Corporation
 Ashutosh Sutra Dhar, Memorial University of Newfoundland
 Cheng Lin, University of Victoria
 Jeff Lam, Rocscience Inc.
 Wenbo Zheng, University of Northern British Columbia
 Keshab Sharma, BGC Engineering Inc.
 Lucas Siscate Bohrer, Ryerson University

Section 3: Number of Division Members

Executive Committee Members: 10

1st Choice members : 655

2nd Choice members: 202

Section 4: Is your Division affiliated with other organizations? (Admin Manual Section 6 and App 10 and 26)

If yes:

International affiliates and name(s) of CGS representative(s)

- International Society of Soil Mechanics and Geotechnical Engineering

Section 5: Division Finances

Account Balance: \$ 1,908.90

Section 6: Division Activities in past year

- Reviewed papers for ICSMGE 2022
- Organized 1st CGS SMFD Distinguished Lecture
- Selected speaker for 2nd CGS SMFD Distinguished Lecture
- Organized articles for Soil Mechanics and Foundation Special Section in 2022 Summer Canadian Geotechnique.
- Selected new division executive members
- Division annual meeting during GeoNiagara 2021
- Monthly division executive member meeting
- Lead author for one chapter and review of one chapter of New Canadian Engineering Foundation Manuel
- Contributed articles for Canadian Geotechnique
- Involved in the Quigley Award selection
- Select 2022 G.G. Meyerhof Award

Section 7: Additional information or comments

N/A

Section 8: Do you have any specific questions or issues that you would like to bring to the attention of the Division Representative on the CGS Executive Committee; the CGS National Office or fellow Board members?

N/A

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? Yes

COMMITTEE REPORTS

Education Committee Annual Report July 1, 2021 to June 30, 2022

Committee Name: Education Committee

Section 1: General

Date of report: July 1, 2021 to June 30, 2022

Prepared by: Pooneh Maghoul

Committee Chair: Pooneh Maghoul

End of Committee Chair's Term: December 31, 2022

1) What is the mission statement, or main purpose, of your Committee? Has it changed?

The mandate of the Education Committee is to identify and address issues and problems concerning all aspects of the continuing education of society members as well as promoting Equity, Diversity, and Inclusion (EDI) practices in the Geotechnical Engineering field.

The Education Committee is also concerned with the involvement of students in the Society, as well as the geotechnical education at Canadian universities.

2) List one, or two or three (or more) specific things that your Committee will be working on, or wishes to accomplish, during the next CGS year (July 1, 2022 to June 30, 2023).

Diversity & Inclusion (D&I) Sub-Committee.

K-12 Activities: brainstorming and preparing a plan.

Organizing National Geo-Wall Student Competition.

Developing a Repository for Geotechnical Engineering courses

Section 2: Current (Jan 1 - Dec 31, 2022) Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your CGS Committee webpage)

Chair: Pooneh Maghoul, Polytechnique Montréal

Past Chair: Tareq Salloum, Ontario Power Generation Inc.

Vice Chair: Kshama Roy, DNV

Secretary: E. Maria Skordaki, Royal Military College of Canada

Administrator Student Competitions: Kshama Roy, DNV

Chair CFG Fellowship Selection: Jean Hutchinson, Queens University

Members: Nicholas Vlachopoulos, Royal Military College of Canada

E. Maria Skordaki, Royal Military College of Canada

Ahmed Fahmy, Golder Associates

Mecckey El Sharnouby, Atlantic Industries Limited

Ramy Saadeldin, Stantec

Cheng Lin, University of Victoria

Adam Sevi, Norwich University

Ryley Beddoe, Royal Military College of Canada

Section 3: Number of Committee Members (as of June 30, 2022)

Executive Committee Members: 10
Total members: N/A
Comments: N/A

Section 4: Is your Committee affiliated with other organizations? No

If yes:

National affiliates and name(s) of CGS representative(s)
North American affiliates and name(s) of CGS representative(s)
International affiliates and name(s) of CGS representative(s)
Comments:

Section 5: Committee Finances (as of June 30, 2022)

Account Balance: N/A
Comments:

Section 6: Committee Activities in past year (July 1, 2021 to June 30, 2022)

- Canadian Foundation for Geotechnique Graduate Student Award at Master's Level.
- Canadian Foundation for Geotechnique National Graduate Scholarship
- Monthly CGS Education Committee webinar series 'Future of Geotechnical Education at the University Level'

Section 7: Additional information or comments

Section 8: Do you have any specific questions or issues that you would like to bring to the attention of the VP Technical, the CGS National Office or fellow Board members?

N/A

Are you planning to attend the fall board meeting, to be held virtually in September? Yes

*Heritage Committee
Annual Report July 1, 2021 to June 30, 2022*

Committee Name: Heritage Committee

Section 1: General

Date of report: 1 Aug 2022
Prepared by: Heinrich Heinz
Committee Chair: Heinrich Heinz
End of Committee Chair's Term: December 31, 2022

- 1) What is the mission statement, or main purpose, of your committee? Has it changed?
The purpose of the Heritage Committee is to preserve the history of geotechnique in Canada (no change)
- 2) List one, or two or three (or more) specific things that your committee will be working on, or wishes to accomplish, during the next CGS year.
 - Work with the Local Organizing Committee of GeoCalgary to organize the Heritage component of the conference (ongoing).
 - Implement an "International Page" with international contributions to Canadian geotechnique
 - Continuing to populate the Virtual Archives with contributions from CGS Members

- Contribute articles to CG/Gc

Section 2: Current Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your CGS Committee webpage)

Chair: Heinrich Heinz (Thurber Engineering, Calgary)
 Past Chair: Dave Cruden (University of Alberta, Edmonton)
 Vice Chair: Jacques Locat (Université Laval, Québec City)

Secretary: Steven Harms (Trek Geotechnical, Winnipeg)
 Emma Åström Canary Systems, Montréal
 Lijun Deng University of Alberta, Edmonton
 Rajib Dey Stantec, Toronto
 Valérie Fréchette Hydro Québec, Montréal
 Steven Harms Trek Geotechnical, Winnipeg
 Jørn Landva Golder Associates, Halifax
 Suzanne Lacasse Norwegian Geotechnical Institute, Oslo
 Andrea Lougheed BGC Engineering, Vancouver
 Fred Matich MAJM Corporation, Toronto
 Doug VanDine VanDine Geological Engineering, Victoria
 Mustapha Zergoun Geotechnical Consultant, Vancouver

Section 3: Number of Committee Members

Executive Committee Members: (see above)
 Total members: 14
 Comments:

Section 4: Is your Committee affiliated with other organizations? Yes

National affiliates and name(s) of CGS representative(s)

- Engineering Institute of Canada (History and Archives Committee) – Heinrich Heinz is the CGS representative

North American affiliates and name(s) of CGS representative(s)

- We have developed an informal relationship with James Withiam, Editor-in-Chief of ASCE’s GEOSTRATA Magazine. This contact has enabled us to obtain permission to publish some of GEOSTRATA’s content on our Virtual Archives.

International affiliates and name(s) of CGS representative(s)

None

Section 5: Committee Finances

Account Balance: \$
 Comments:

-

Section 6: Committee Activities in past year

- Considerable time was dedicated to procuring and helping prepare articles for the Special Heritage Section of Canadian Geotechnique, to be published in the Fall of 2022
- We have continued to promote the 'Canadian Legends Series'. Interviews were conducted by students with Arvid Landva (shortly before his death) – a summary is currently being prepared. Heritage Committee member Lijun Deng and two of his students have interviewed Peter Robertson – this has been transcribed and is almost ready for publication.
- We have continued to populate the Virtual Archives with contributions from CGS Members
- We have contributed articles to CG/Gc

Section 7: Additional information or comments

•

Section 8: Do you have any specific questions or issues that you would like to bring to the attention of the VP Technical, the CGS National Office or fellow Board members?

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? Not sure yet.

Geohazards Committee
Annual Report July 1, 2021 to June 30, 2022

Committee Name: Geohazards Committee

Section 1: General

Date of report: July 8, 2022

Prepared by: Scott McDougall

Committee Chair: Scott McDougall

End of Committee Chair's Term: June 30, 2022

1) What is the mission statement, or main purpose, of your committee? Has it changed?

The Geohazards Committee (formerly the Landslide Committee) supports efforts leading to the technical competence and excellence of Canadian geotechnical and related geoscience professionals working in the field of geohazards. It contributes to the organization of Canadian geotechnical conference sessions on landslides and geohazards, the organization of national and international landslide and geohazard conferences, the development of national geohazards guidelines, and the maintenance of links with other related professional societies such as the Joint Technical Committee on Natural Slopes and Landslides (JTC 1).

2) List one, or two or three (or more) specific things that your committee will be working on, or wishes to accomplish, during the next CGS year (July 1, 2021 to June 30, 2022).

- Ongoing webpage updates
- Update access to national landslide guidelines via link with ISSMGE
- Continue more regular committee meetings, including online graduate student research series
- Assist with Schuster Medal nomination and selection process
- Assist in advanced planning for GeoHazards 9
- Assist with geohazard-related papers for Canadian Geotechnique

Section 2: Current (Jan 1 - Dec 31, 2022) Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your CGS Committee webpage)

Chair: Scott McDougall (UBC) Jan 1 – June 30, Ariane Locat (Laval) July 1 – Dec 31

Past Chair: Dave Gauthier (BGC) Jan 1 – June 30, Scott McDougall (UBC) July 1 – Dec 31

Vice Chair: Ariane Locat (Laval) Jan 1 – June 30, TBD July 1 – Dec 31

Secretary: N/A

(Add others as necessary)

Section 3: Number of Committee Members (as of June 30, 2021)

Executive Committee Members: 3

Total members: ~60

Comments:

- Approximately 80 different individuals have attended meetings over the past two years

Section 4: Is your Committee affiliated with other organizations? Yes/No

If yes:

National affiliates and name(s) of CGS representative(s)

- CGS Engineering Geology Division
- CGS Transportation Committee

North American affiliates and name(s) of CGS representative(s)

- US Association of Engineering and Environmental Geologists (AEG)

International affiliates and name(s) of CGS representative(s)

- International Association of Engineering Geologists (IAEG)

Comments:

- We aim to strengthen relationships with the affiliates noted above, as well as with other learned societies

Section 5: Committee Finances (as of June 30, 2022)

Account Balance: \$10,100

Comments:

- none

Section 6: Committee Activities in past year (July 1, 2021 to June 30, 2022)

- Ad hoc subcommittee assisted with Schuster Medal nomination and selection process
 - Committee meetings on October 21, 2021 and June 14, 2022 (meeting minutes are available on request)
 - Online graduate student research series “Geohazard Connections” (organized in April 2022 by committee member Renato Macciotta and his students)
- Assisting the organization of GeoHazards 8

Section 7: Additional information or comments

- The role of committee Chair passed from Scott to Ariane on July 1

Section 8: Do you have any specific questions or issues that you would like to bring to the attention of the VP Technical, the CGS National Office or fellow Board members?

No

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October? Yes / No

Yes

Mining Geotechnique Committee
Annual Report July 1, 2021 to June 30, 2022

Committee Name: Mining Geotechnique

Section 1: General

Date of report: July 15, 2022
Prepared by: Thomas Pabst
Committee Chair: Thomas Pabst
End of Committee Chair's Term: December 31, 2022

1) What is the mission statement, or main purpose, of your committee? Has it changed?

- Organize and coordinate sessions on Mining Geotechnique at the annual Canadian Geotechnical Conference, in collaboration with the Technical Divisions of CGS.
- Act as a forum for discussion between industry, academics, and students on issues of research, education, and training.
- Promote awareness of Mining Geotechnique within the CGS, the geoscience community, and related fields.
- Liaise between CGS and other mining-related national and international organizations.
- Help publicize the importance of Mining Geotechnique to the Canadian public.
- Contribute to efforts that may be beneficial to the Mining Geotechnique community.

2) List one, or two or three (or more) specific things that your committee will be working on, or wishes to accomplish, during the next CGS year.

- Organization of a student – industry activity during GeoNiagara2021.
- Invite new members and increase the participation of the Committee members.
- Organize of a Special Session on Mining Geotechnique at GeoCalgary 2022.
- Continue to organize regular webinars on mining geotechnique (professional and students, once every two months).
- Publish a news article in Canadian Geotechnique.

Section 2: Current Executive Committee Members and their Affiliations

Chair: Thomas Pabst, Polytechnique Montreal
Past Chair: Paul Simms, Carleton University
Vice Chair: Marie-Lin Bréard-Lanoix, Golder-WSP
Secretary: Vincent Boulanger-Martel, UQAT
Chair Elected: Ahlam Abdulnabi, Thurber Engineering (*will start term on January 1, 2023*)

Section 3: Number of Committee Members

Executive Committee Members: 4
Total members: 38
Comments: -

Section 4: Is your Committee affiliated with other organizations? No

Comments: Objective for 2022/23: Develop contacts with CIM ESRS Tailings Working Group.

Section 5: Committee Finances

Account Balance: 0\$

Section 6: Committee Activities in past year

- Publication of a special issue of the CGS Magazine (Canadian Geotechnique/Geotechnique Canadienne) on Mining Geotechnique (Fall 2021). The special issue comprised 6 original articles on various subjects related to mining.
- Publication of a short article for the News section of the CGS Magazine (Spring 2022 issue): A Successful Special Session on Mining Geotechnique.
- Organization of a Special Session at GeoNiagara on Mining Geotechnique. Three renown speakers presented their experience from real case studies:
 - Thomas Lépine (Agnico Eagle): Mining geotechnical construction in permafrost conditions: challenges and lessons learned.
 - Michel Julien (Agnico Eagle): Using soil improvement techniques to retrofit existing tailings storage facilities to increase strength characteristics.
 - Dennis Becker (Golder): Mining Geotechnique Challenges in the Oil Sands.
- Annual meeting, in person during GeoNiagara and online on October 20, 2021.
- Two Mining Geotechnique webinars were organized during Spring 2022:
 - May 11, 2022: Kate Patterson (Klohn Crippen Berger): *Alternatives to Conventional Slurry for Tailings Management in Canada: When can we use them?*
 - March 23, 2022: Paul Simms (Carleton University): *Rheology for Tailings Flow Simulation*
- Organization of a Special Session at GeoCalgary 2022 on Mining Geotechnique. Three renown speakers will present (abstracts have been received and accepted by LOC, no papers planed):
 - Jeremy Boswell (Thurber Engineering): Improving the defences of tailings structures
 - Ashley Gusikoski (BHP): Management of change in closed and legacy mine sites – Case examples from Selbaie Mine
 - Scott Martens (CNRL): Essential components of safe upstream tailings dams – Examples from the Alberta oil sands

Section 7: Additional information or comments

- None

Section 8: Do you have any specific questions or issues that you would like to bring to the attention of the VP Technical, the CGS National Office or fellow Board members?

- None

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? No, but Vice-Chair or Chair Elected should be able to be attend.

Professional Practice Committee
Annual Report July 1, 2021 to June 30, 2022

Committee Name: Professional Practice Committee

Section 1: General

Date of report: 06 July 2022
 Prepared by: Seán Mac Eoin
 Committee Chair: Seán Mac Eoin
 End of Committee Chair's Term: 31 December 2022

- 1) What is the mission statement, or main purpose, of your committee? Has it changed?
 The Professional Practice Committee's mandate is:

- To Highlight and Educate CGS Members on Professional Practice issues facing Geoprofessionals,
- To communicate CGS's views on issues relevant to "Geoprofessionals" belonging to the society, and
- To address other aspects of professional practice that are of interest or concern to society members.

This was previously provided and has not changed.

2) List one, or two or three (or more) specific things that your committee will be working on, or wishes to accomplish, during the next CGS year.

- Complete formal affiliation arrangements with GBA and AFG.
- Continue to support Annual Conference with two Special Sessions.
- Establish more Working Groups to examine Professional Practice issues, arriving at appropriate guidance for CGS members.
- Contribute articles consistently to Canadian Géotechnique.

Section 2: Current Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your CGS Committee webpage)

Chair: Seán Mac Eoin (Tetra Tech)

Past Chair: James Blatz (Trek Geotechnical, University of Manitoba)

Vice Chair: Vacant

Secretary: Dylan Hill (Malroz)

André Bom (Golder Associates), Bob Patrick (Retired), Imteaz Bhuiyan (Water Security Agency of Saskatchewan), Kristen Tappenden (Alberta Transportation), Pierre Boulanger (Tetra Tech), Roger Skirrow (Alberta Transportation), Michael Snow (Golder Associates), Sylvia Bryson (Stantec), Kent Bannister (Trek Geotechnical), Suzanne Powell (Thurber Engineering), Rob Kenyon (KGS), and Jason Crowder (Grounded Engineering Inc.).

Section 3: Number of Committee Members

Executive Committee Members: 15

Total members: Not known. There is currently no way of determining this.

Comments: It would be helpful to be able to reach out to a CGS membership group interested in Professional Practice matters. This is expected to be possible after 2022. We also need the Annual Meetings (usually during the CGS Annual Conference) to be properly addressed before the conference, to be included in the conference schedule, and to be appropriately promoted during the conference.

Section 4: Is your Committee affiliated with other organizations? Yes/No

If yes:

National affiliates and name(s) of CGS representative(s)

- Informally to date : Association des Firmes de Génie-Conseil Québec – Michael Snow. One meeting has taken place with a positive response.

North American affiliates and name(s) of CGS representative(s)

- Informally to date: Geoprofessional Business Association (formerly ASFE) - Michael Snow & Kent Bannister. Meetings have taken place. GBA may take a booth at GeoCalgary2022. Working towards formal affiliation arrangements.

International affiliates and name(s) of CGS representative(s)

- None

Comments: Other North American organisations will be considered for affiliation based on Professional Practice issues.

Section 5: Committee Finances

Account Balance: \$0.00

Comments: Committees are not financed, and the Professional Practice Committee holds no funds.

Section 6: Committee Activities in past year

- Seven meetings of the Committee have been held.
- Hosted two Special Sessions at GeoNiagara2021 on Monday 27 September 2021: "Mitigating the Risk of Litigation and Disclaimer Statements" and "Claims and Change Management". The Special Sessions were led by Sahil Shoor of Gowling WLG and hosted by Kent Bannister.
- A poorly attended Annual Meeting on Tuesday 28 September 2021 still resulted in one new member of the Committee.
- Two meetings with GBA, including Kent Bannister's attendance at GBA's Board Meeting at their conference
- One meeting with AFG
- Seven meetings of Special Sessions Working Group (2 Special Sessions planned)
- Chairman attended Committee & Division Chairpersons' Check-In
- Gradual progress on Case Study Collection joint Working Group with Heritage Committee

Section 7: Additional information or comments

- The work of the PPC has been affected by the increase in employment workload of its members. This may be due, in part, to the nationwide recruitment crisis. This impact may spread beyond just the PPC. All of us may have to find ways to continue our CGS work with fewer volunteer hours available.

Section 8: Do you have any specific questions or issues that you would like to bring to the attention of the VP Technical, the CGS National Office or fellow Board members?

There is a sense on the PPC that our approach to communication needs review. This is generally consistent with the communication from the Committee & Division Chairpersons' meeting to the Executive Committee on this subject.

The PPC considers that it would be helpful to share all event programs among Section Directors at least. Perhaps this can be done using the CGS website.

With great sadness, I would like to draw attention to the passing of **Neil Abbott** of Gowling WLG, in hospital following a long illness, on the eve of our two Special Sessions at GeoNiagara 2021. A partner at Gowling WLG and a certified specialist in construction law, specialising in geotechnical contracts and disputes, Neil had been a long-standing supporter of the CGS, attending most of our Annual Conferences for at least the last 10 years. Neil had been scheduled to lead our two Special Sessions at GeoNiagara 2021. His presentations to the CGS, both as an individual speaker and as a member of a panel, have educated all who attended, with his good humour providing a safe learning space, and his professionalism and extensive knowledge and experience completing the connection with geotechnical engineers. He enjoyed our conferences and was committed to passing to geotechnical engineers a deeper knowledge, awareness, and understanding of the legal implications of what we do. I'm glad he fulfilled his commitment. We will all miss him and what he could still have taught us.

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? Yes / No

Yes.

Committee Name: Sustainable Geotechnics

Section 1: General

Date of report: July 15, 2022

Prepared by: Catherine Mulligan

Committee Chair: Catherine

End of Committee Chair's Term: Dec. 31, 2023

1) What is the mission statement, or main purpose, of your committee? Has it changed?

- Raise the awareness of sustainable geotechnique for the development of sustainable and resilient civil infrastructure and society;
- Promote education, research, practice and publications in Sustainable Geotechnique.

2) List one, or two or three (or more) specific things that your committee will be working on, or wishes to accomplish, during the next CGS year.

-Organizing webinars

-Updating the web site

-Preparing news articles for Fall 2022 CGS Magazine

-Promotion of sustainable geotechnics through cross-country lecture tour.

Section 2: Current Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your CGS Committee webpage)

Chair: Catherine Mulligan, Concordia University

Past Chair: Tim Newson, Western

Section 3: Number of Committee Members

Executive Committee Members:

Tim Newson, Western

Dipanjan Basu, University of Waterloo

Ian Fleming, University of Saskatchewan

Roger Skirrow, *Alberta Transportation*

Stan Gonsalves, *exp*

Tony Sangiuliano, *MTO*

Susanne Chan, *MTO*

Imteaz Bhuyian, Water Security Agency

Pooneh Maghoul, Polytechnique

Laxmi Kant Kachhwal, Nichols Environment

Biao Li, Concordia University

Urzula Wajdzik, Reinforced Earth

Carol Domitric, Isherwood

Naresh Gursaud, Keller

Total members: 15

Section 4: Is your Committee affiliated with other organizations? Yes/No

If yes:

National affiliates and name(s) of CGS representative(s)

-

North American affiliates and name(s) of CGS representative(s)

-

International affiliates and name(s) of CGS representative(s)

ISSMGE TC 307

- C. Mulligan
- D. Basu
- T. Newson

-

Comments:

Section 5: Committee Finances

Account Balance: \$ 0

Comments:

-

-

Section 6: Committee Activities in past year

-

- Prepared two articles for CGS News -One on Triennial Summit and the other on Reuse of existing piles for MTO for GeoNiagara 2021, Winter 2021 edition
- Participated in reviews of articles for GeoCalgary
- Organized a virtual committee meeting
- CGS-SOS February Webinar on *Implementation of Sustainable Geoengineering Practices by C.Mulligan. Recording is on web site.*
- Examples of sustainable practices such as the MTO is engaged in several projects at different stages for the reuse of existing piles

Section 7: Additional information or comments

- None

-

Section 8: Do you have any specific questions or issues that you would like to bring to the attention of the VP Technical, the CGS National Office or fellow Board members?

No

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? Yes

Committee Name: Transportation Geotechnique Committee

Section 1: General

Date of report: July 10, 2022

Prepared by: Harpreet Panesar

Committee Chair: Harpreet Panesar

End of Committee Chair's Term: 2023

1) What is the mission statement, or main purpose, of your committee? Has it changed?
The Transportation Geotechnique Committees mission is to promote geotechnical engineering as a means of creating a resilient and sustainable transportation network.

Yes, it was revised in April 2022

2) List one, or two or three (or more) specific things that your committee will be working on, or wishes to accomplish, during the next CGS year.

- One-day online workshop on terrain analysis for geotechnical investigations
- Host technical talks

Section 2: Current Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your CGS Committee webpage)

Chair: Harpreet Panesar, SoilRocks Consulting Inc

Past Chair: Don Lewycky, Retired

Vice Chair: Brent Hay, TREK Geotechnical Inc

Secretary: Ahmed Mahgoub, WOOD

(Add others as necessary)

Section 3: Number of Committee Members

Executive Committee Members: 4

Total members: ~110

Comments:

Section 4: Is your Committee affiliated with other organizations? Yes/No

If yes:

National affiliates and name(s) of CGS representative(s)

- Transportation Association of Canada (TAC) – Brent Hay
- Rail Ground Hazard Research Project (RGHRP) – Tom Edwards, Mario Ruel, Chris Bunce, Roger Skirrow, Tim Keegan, Jean Hutchinson, Melissa Ruel, David Cook
- Canadian Rail Research Laboratory (CaRRL) – Renato Macciotta, Vivian Gang

North American affiliates and name(s) of CGS representative(s)

- AEG Association of Engineering Geology – Mario Ruel

International affiliates and name(s) of CGS representative(s)

- ISSMGE-TC202 Transportation Geotechnics – Mario Ruel

Comments:

Section 5: Committee Finances

Account Balance: \$ 0

Comments:

- One-day online workshop on terrain analysis for geotechnical investigations scheduled on November 24th, 2022 is planned to be a profitable venture for TGC and will help to open a restricted account.

Section 6: Committee Activities in past year

- TGC committee met last via MS Teams on Apr 7, 2022
- Brent Hay shared a presentation on the TGC during TAC's spring meeting sessions on April 26, 2022. The presentation was to build synergies between TGC and Soils and Materials TAC Committee and establish points of contact for events that might be cross-over between the two committees.

Section 7: Additional information or comments

•

Section 8: Do you have any specific questions or issues that you would like to bring to the attention of the VP Technical, the CGS National Office or fellow Board members?

- Some of the members representing TGC's cross associations might have retired or retiring soon. TGC will appreciate CGS National's recommendation and assistance to find suitable replacements to continue to act as liaisons.

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? Yes / No
Yes, tentatively.

Membership Committee
Annual Report July 1, 2021 to June 30, 2022

Committee Name: Membership Committee

Section 1: General

Date of report: July 13, 2022

Prepared by: David Wood

Committee Chair: David WOOD

End of Committee Chair's Term: December 2022

- 1) What is the mission statement, or main purpose, of your committee? Has it changed?
It has not changed.

The mandate of the Membership Committee is to:

- Promote the CGS Membership benefits to current and future members
- Introduce additional ideas/initiatives that will build membership in the society
- Design and develop a member satisfaction process
- Support members with involvement and participation issues
- Survey geo-professionals to understand where the CGS can provide more value
- Promote volunteering opportunities
- Track membership renewals

2) List one, or two or three (or more) specific things that your committee will be working on, or wishes to accomplish, during the next CGS year.

Section 2: Current Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your CGS Committee webpage. NOTE: Membership Committee webpage has not been updated since 2019)

Chair: David Wood (David F. Wood Consulting Ltd.)
Past Chair: Judith Bouchard (Acting Chair to 2019, Hydro-Quebec, CGS VPCom)
Secretary: Justyna Koss-Fairless (Suncor, CGS VP Comm)
Member Vincent Castongay (ULaval)
Member Ramy Saadeldin (OPG)
Pierre Oliver Dionne (Hydro-quebec)
Wesley Saunders (GKM Consultants)

Section 3: Number of Committee Members

Executive Committee Members: 2

Total members: 6

Comments: Membership Committee vry grateful to have CGS VP Comm on side for last 3-4 years

Section 4: Is your Committee affiliated with other organizations? No

If yes:

National affiliates and name(s) of CGS representative(s)

•

North American affiliates and name(s) of CGS representative(s)

•

International affiliates and name(s) of CGS representative(s)

•

Section 5: Committee Finances

Account Balance: \$N/A

Comments:

• Membership Committee has no account

•

Section 6: Committee Activities in past year

- Ran Townhall meeting to offer all members an opportunity to reflect and comment
- Introduced Incentive program to encourage members to bring new national members to the society
- Brought in Society Chapter rep to investigate conversion of local chapter members to national membership

Section 7: Additional information or comments

• Hoping to hold event at GeoCalgary to allow members to comment to CGS Executive

Section 8: Do you have any specific questions or issues that you would like to bring to the attention of the VP Technical, the CGS National Office or fellow Board members? Not at this time, except having webpage updated.

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? Yes

Young Professional Committee
Annual Report July 1, 2021 to June 30, 2022

Committee Name: Young professional Committee

Section 1: General

Date of report: September 29, 2022

Prepared by: Dr. Kshama Roy

Committee Chair: Dr. Kshama Roy

End of Committee Chair's Term: December 31, 2024

Committee's CGS web page address: N/A

Last time your Committee's CGS web page was updated: N/A

If your Committee has a separate website, please provide address: N/A

Is there a link from your separate Committee website to the CGS website? No

1) If you previously have not provided the following, what is the mission statement, or main purpose, of your Committee.

See attached

2) List one, or two or three (or more) specific things that your committee will be working on, or wishes to accomplish, during the next year.

- CGS YP Webinar series
- CGS Website section
- CGS mentorship program
- CGS local young professionals' event

Section 2: Last year (as of Dec 31, 2021) Executive Committee Members and their Affiliations (employers or if students, universities)

Chair: N/A

Past Chair: N/A

Vice Chair: N/A

Secretary: N/A

(Add others as necessary)

Section 3: Current (Jan 1, 2022 - Dec 31, 2022) Executive Committee Members and their Affiliations (employers or if students, universities)

Chair: Dr. Kshama Roy (Inaugural Chair)

Past Chair: N/A

Vice Chair: Leanne McLaren

Secretary: Silvia Nobre

Lead – Knowledge: Rajith Dayarathne

Lead – Network: Naveel Islam

Lead – Development: Intisar Ahmed

Lead – Impact: Kamelia Atefi

Lead – Collaboration: Chelsea Burdon

Executives -at-Large: Brennan McMulin, Bryce Marcotte, Angela Vriends

Section 4: Number of Committee Members (as of September 1, 2022)

Executive Committee Members: 12

Total members: 12

Section 5: Is your Committee affiliated with other organizations? No

If yes:

National affiliates and name(s) of CGS representative(s)

•

North American affiliates and name(s) of CGS representative(s)

•

International affiliates and name(s) of CGS representative(s)

•

Comments:

Section 6: Committee Finances (as of Dec 31, 2021)

Account Balance: N/A

Comments

Section 7: Committee Activities in past half-year (January 1, 2022 to September 1, 2022)

See attached

Section 8: Additional information or comments

Section 9: Do you have any specific questions or issues that you would like to bring to the attention of the VP Technical or the CGS National Office? No

OTHER REPORTS

Geotechnical Research Board Annual Report July 1, 2021 to June 30, 2022

Geotechnical Research Board (GRB)

Section 1: General

Date of report: July 30 2022

Prepared by: Greg Siemens and Marolo Alfaro

Chair: Marolo Alfaro

Vice-Chair: Paul Simms

Past Chair: Greg Siemens

End of Chair's Term: December 2024

1) What is the mission statement, or main purpose, of the GRB? Has it changed?

The mandate of the GRB is to monitor, stimulate, and promote research in the geotechnical and geoscience fields for the benefit of the profession and Canada.

2) List one, or two or three (or more) specific things that the GRB will be working on, or wishes to accomplish, during the next CGS year. (July 1, 2022 to June 31, 2023)

- Evaluation of submissions and selection of the 2023 Colloquium (name to be announced at GeoCalgary 2022)
- Evaluation of selected papers for the 2022 Gzowski Medal.
- Organization of a special session on EDI at GeoCalgary 2022
- Organization of in-person annual meeting at GeoCalgary 2022

Section 2: Current Executive Committee Members and their Affiliations (employers or, if students, universities – these will be posted on your CGS webpage)

Chair: Marolo Alfaro

Vice Chair: Paul Simms

Secretary: Hany El-Naggar

Past Chair: Greg Siemens

(Add others as necessary)

Section 3: Number of Committee Members

Executive Committee Members: 2 (Chair, Vice-Chair, and Secretary)

Total members: 13

Comments:

-

Section 4: Is your Committee affiliated with other organizations? No

If yes:

National affiliates and name(s) of CGS representative(s)

-

North American affiliates and name(s) of CGS representative(s)

-

International affiliates and name(s) of CGS representative(s)

Comments:

Section 5: GRB Activities in past year

- Annual Virtual Meeting in December 2021(?)
- Participation to the jury of the Gzowski Medal
- Selection of Colloquium Recipient
- Organized a webinar on NSERC Alliance grant

Section 6: Additional information or comments

-

Section 7: Do you have any specific questions or issues that you would like to bring to the attention of the VP Technical, the CGS National Office or fellow Board members?

- Can we request some funds from CGS National to support on expenses in the activities of GRB (for example, to pay for speakers travel for a special session during CGS conference)?

Are you planning to attend the fall board meeting, to be held in Calgary, at GeoCalgary this October 2? Yes / No

- Yes

***Canadian Geotechnical Journal – Greg Siemens, Editor-in-Chief
Annual Report July 1, 2021 to June 30, 2022***

*Report not received in time for BOD meeting.

***CGS News – Nicholas Beier, Editor
Annual Report July 1, 2021 to June 30, 2022***

This is my fourth annual report as the CGS News Editor, since taking up the post on January 1, 2019. This is the third year of the *Canadian Geotechnique/Geotechnique canadienne*, and with it, the CGS News section. I have worked closely with Lisa Reny, Emily Fournier, Doug VanDine, Bill Reny and the Editorial Board, to ensure the CGS News has maintained its required content.

The CGS News section continues to be published four times a year (Spring, Summer, Fall and Winter), with mandatory items appearing in each specific issue as detailed in the CGS Administration Manual. Content also comes from a variety of sources including the various local Sections, Divisions and Committee chairs and CGS members. A reminder, CGS News items (typically less than 500 words plus a photo or two) cover what is going on, what has gone on and what will be going on in the CGS, and the people involved. These items include what, where, why, how and who nationally, in the Sections, Divisions, Committees and the Geotechnical Research Board (GRB). Most of this information could come from the yearly fall updates prepared for the CGS annual reports and the Canadian geotechnical conferences, plus interesting events or activities that are planned or have recently occurred. I am happy to work with Directors and Chairs to discuss potential news items and content.

I compile and submit the CGS News items to Lisa Reny approximately 2 months prior to the publication date. The team at Karma-Link and the editors have developed an efficient, easy to follow workflow to ensure news items are received, edited and compiled in time to meet publishing deadlines. Working with Lisa and Doug, a long-range content and issue planner has been developed for the magazine and the CGS News section. We have worked hard to increase the bilingual content in the CGS News section and almost all new items have been printed in both French and English over the past

year. However, timing of submissions is still the limiting factor. To ensure translations can be completed in a timely manner, we have pushed submission deadlines a little earlier.

Over the past year, the CGS news section also highlighted major accomplishments and awards of our colleagues in the Members in the News section. In some cases, I utilized citations, which were prepared by Lisa and Emily for the E-News, to communicate why our members were so deserving of their awards. Other citations were submitted by members.

At the Board meeting in GeoNiagra, I presented a schedule for news item submissions for the Section, Division, Committee and the GRB chairs for 2022. I have encouraged these groups to prepare news items describing the mandates, goals and initiatives of their respective groups and members. Majority of the groups have submitted according to the schedule with some even submitting news items for multiple issues. I commend the representatives for participation and contributions to the CGS News section! I believe this initiative has increased CGS news contributions from the various groups and propose to continue this approach going forward. Attached in Table 1 is a draft schedule for CGS news items assignments for 2023. The schedule was randomly prepared and is open for revision based on feedback from the group representatives. Each issue of the magazine over the past year included a special feature sections containing technical articles dedicated to particular themes. For example, the Fall 2021 issue features articles from the Mining Geotechnique Committee. The Winter 2021 issue featured an expanded section dedicated to the GeoNiagra 2021 conference. Summaries of the various conference components were included in this section including keynote lectures, special panel sessions, awards and honors, social activities and short course offerings. The Spring 2022 issue featured the Rock Mechanics Division and the Summer 2022 issue featured a special section on pile foundations organized by the Soil Mechanics and Foundation Division. The CGS News section will compliment these themed issues where applicable. Future issues are planned to include special sections including the rollout of the new CFEM. Representatives interested in leading a special section in the magazine are encouraged to contact the editorial team. Please note, these sections take many months to organize and compile to ensure the articles are of suitable topic and quality.

The successes in my fourth year as CGS News Editor are due to the support and patience I received from the representatives submitting articles, the team at KarmaLink, CGS Executive Committee and the Board of Directors. Thanks to Ian Moore for timely submissions of the President’s Message. I continue to encourage all members of the Board of Directors to submit news items and announcements to me. In the case of time sensitive articles, please remember that I need to receive these contributions at least two and half months prior to the publication date.

CGS News Item Schedule – January 2023
Proposal by Nicholas Beier, CGS News Editor

Table 1. Proposed CGS News item assignment for 2023 Canadian Geotechnique issues.

Issue	Division	Committee
Spring 2023 (Due December 15)	Geosynthetics	Heritage
	Rock Mechanics	Mining Geotechnique
Summer 2023 (News Item Due March 15)	Soil Mechanics and Foundations	Geohazards
	Geotechnical Research Board	Education
Fall 2023 (News Item Due June 15)	Geoenvironmental	Transportation Geotechnique
	Groundwater	Professional Practice
Winter 2023 (News Item Due Sept. 15)	Cold Regions Geotechnology	Sustainable Geotechnics
	Engineering Geology	Membership