

# **The Canadian Geotechnical Society**

**La Société canadienne  
de géotechnique**



**2011**

**Annual Report / Rapport annuel**

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# CANADIAN GEOTECHNICAL SOCIETY - AWARDS AND HONOURS 2011

- R.F. Legget Award** W. D. Liam Finn
- R.M. Quigley Award** R.W.I. Brachman, H.A. McLeod, I.D. Moore, and W.A. Take "Three-dimensional ground displacements from static pipe bursting in stiff clay" (Vol.47 (4) pp.439-450)
- Honourable Mention:** Jian-Hua Yin, Chun-Man Cheng, Md. Kumruzzaman, and Wan-Huan Zhou "New mixed boundary, true triaxial loading device for testing three-dimensional stress-strain-strength behaviour of geomaterials" (Vol. 47, (1) pp.1-15)
- J. Paul Dittrich, R. Kerry Rowe, Dennis E. Becker, and K.Y. Lo "Influence of exsolved gases on slope performance at the Sarnia approach cut to the St. Clair Tunnel" (Vol. 47 (9) pp. 971-984)
- G. Geoffrey Meyerhof Award** Ryan Phillips, Principal Consultant, C-CORE, St. John's, Newfoundland
- Thomas Roy Award** No Award in 2011
- Roger J. E. Brown Award** Not scheduled for 2011
- John A. Franklin Award** Peter F. Stacey, President, Stacey Mining Geotechnical Ltd., Vancouver, BC
- Geoenvironmental Award** Not scheduled for 2011
- Geosynthetics Award** Not scheduled for 2011
- Robert N. Farvolden Award** Robert N. Betcher, Section Head, Groundwater Management Section, Manitoba Water Stewardship, Winnipeg, Manitoba
- (Joint award with IAH-CNC)**

## Graduate Student Paper Award

- 1<sup>st</sup> Prize** Fathi Mohamed, "Bearing Capacity and Settlement Behaviour of Shallow Footings in Unsaturated Sands" Department of Civil Engineering, University of Ottawa, Advisors: Dr. Sai Vanapalli and Dr. Murat Saaticioglu
- 2<sup>nd</sup> Prize** Jeffrey Oke, "Investigation into Application of Rankine and Coulomb Theory on Forepoles deformation in Conventional Tunnelling Methods" Department of Geological Sciences and Geological Engineering, Queen's University; Advisors, Dr. Nicholas Vlachopoulos and Dr. Mark Diederichs

## Undergraduate Student Report (Individual)

- 1<sup>st</sup> Prize** Candice Williams, "Design of a Fluorescent Tracer Injection Experiment to Characterize Infiltration Patterns in Whiteman's Creek, Ontario" Department of Civil Engineering, University of Waterloo; Advisor, Dr. William K Annable
- 2<sup>nd</sup> Prize** Sarah Klassen, "The Impacts of Groundwater Trends and Bioengineering on Riverbanks in Winnipeg" Department of Civil Engineering, University of Manitoba, Winnipeg; Advisor, Dr. James Blatz

## Undergraduate Student Report (Group)

- 1<sup>st</sup> Prize** Brad Copping, Sonia Hachey, Sean Legassie, Brandon Love, John Nichols, and Jennifer Pellerin, "Seismic amplification and resonance effects in Fredericton, New Brunswick: geological origin and geotechnical significance" Department of Earth Sciences, University of New Brunswick; Advisors, Dr. Karl Butler and Dr. Tom Al
- 2<sup>nd</sup> Prize** Jennifer Day, Michaela Kuuskman, and Claire MacCallum, "Assessment of Railway Embankment Fouling" Department of Geological Sciences and Geological Engineering, Queen's University, Kingston; Advisor, Dr. D. Jean Hutchinson

**Canadian Foundation for Geotechnique National Graduate Scholarship** Adedeji Dunmola, Carleton University

## A.G. Stermac Awards

- David M. Cruden (University of Alberta)
- Brad M. Ellingwood (Chief Geotechnical Engineer, E2K Engineering Ltd.)
- Heinrich K. Heinz, (Managing Director / Geotechnical Engineer, Thurber Engineering Ltd.)
- David F. Wood, (David F. Wood Consulting Ltd.)

- CGS R.M. Hardy Keynote Address** Kwan Yee Lo, Professor Emeritus, University of Western Ontario.
- CGS Keynote Address** Not scheduled for the 2011 Pam-Am-CGS Toronto Conference.
- Casagrande Lecture** R. Kerry Rowe, Professor and Vice-Principal (Research) Queens's University.
- Canadian Geotechnical Colloquium** Craig Lake, Associate Professor, Dalhousie University.
- Cross Canada Lecture Tours** Mark Diederichs (Spring 2011), Steven G. Vick (Fall 2011)

## AWARDS FROM ENGINEERING INSTITUTE OF CANADA (EIC)

- K.Y. Lo Medal** W. D. Liam Finn, Professor Emeritus, University of British Columbia
- Fellowship of the Institute (FEIC)** Jean Hutchinson, Professor, Queen's University
- Fellowship of the Institute (FEIC)** Wayne Savigny, BGC Engineering Inc., Co-founder and Principal

# LA SOCIÉTÉ CANADIENNE DE GEOTECHNIQUE – DISTINCTIONS 2011

**Médaille R.F. Legget** W. D. Liam Finn

**Prix R.M. Quigley** R.W.I. Brachman, H.A. McLeod, I.D. Moore, and W.A. Take “*Three-dimensional ground displacements from static pipe bursting in stiff clay*” (Vol.47 (4) pp.439-450)

**Mention honorable** Jian-Hua Yin, Chun-Man Cheng, Md. Kumruzzaman, and Wan-Huan Zhou “*New mixed boundary, true triaxial loading device for testing three-dimensional stress–strain–strength behaviour of geomaterials*” (Vol. 47, (1) pp.1-15)  
J. Paul Dittrich, R. Kerry Rowe, Dennis E. Becker, and K.Y. Lo “*Influence of exsolved gases on slope performance at the Sarnia approach cut to the St. Clair Tunnel*” (Vol. 47 (9) pp. 971-984)

**Prix G. Geoffrey Meyerhof** Ryan Phillips, Principal Consultant, C-CORE, St. John's, Newfoundland

**Prix Thomas Roy** Pas en 2011

**Prix Roger J. E. Brown** Pas en 2011

**Prix John A. Franklin** Peter F. Stacey, President, Stacey Mining Geotechnical Ltd., Vancouver, BC

**Prix de la géologie de l'environnement** Pas en 2011

**Prix des matériaux géosynthétiques** Pas en 2011

**Prix Robert N. Farvolden (Joint award with IAH-CNC)** Robert N. Betcher, Section Head, Groundwater Management Section, Manitoba Water Stewardship, Winnipeg, Manitoba

## **Prix de l'étudiant diplômé**

**1<sup>er</sup> prix** Fathi Mohamed, “*Bearing Capacity and Settlement Behaviour of Shallow Footings in Unsaturated Sands*” Department of Civil Engineering, University of Ottawa, Advisors: Dr. Sai Vanapalli and Dr. Murat Saatcioglu

**2<sup>e</sup> prix** Jeffrey Oke, “*Investigation into Application of Rankine and Coulomb Theory on Forepoles deformation in Conventional Tunnelling Methods*” Department of Geological Sciences and Geological Engineering, Queen's University; Advisors, Dr. Nicholas Vlachopoulos and Dr. Mark Diederichs

## **Prix de l'étudiant non-diplômé, présentation individuelle**

**1<sup>er</sup> prix** Candice Williams, “*Design of a Fluorescent Tracer Injection Experiment to Characterize Infiltration Patterns in Whiteman's Creek, Ontario*” Department of Civil Engineering, University of Waterloo; Advisor, Dr. William K Annable

**2<sup>e</sup> prix** Sarah Klassen, “*The Impacts of Groundwater Trends and Bioengineering on Riverbanks in Winnipeg*” Department of Civil Engineering, University of Manitoba, Winnipeg; Advisor, Dr. James Blatz

## **Prix de l'étudiant non-diplômé, présentation de groupe**

**1<sup>er</sup> prix** Brad Copping, Sonia Hachey, Sean Legassie, Brandon Love, John Nichols, and Jennifer Pellerin, “*Seismic amplification and resonance effects in Fredericton, New Brunswick: geological origin and geotechnical significance*” Department of Earth Sciences, University of New Brunswick; Advisors, Dr. Karl Butler and Dr. Tom Al

**2<sup>e</sup> prix** Jennifer Day, Michaela Kuuskman, and Claire MacCallum, “*Assessment of Railway Embankment Fouling*” Department of Geological Sciences and Geological Engineering, Queen's University, Kingston; Advisor, Dr. D. Jean Hutchinson

**Canadian Foundation for Geotechnique National Graduate Scholarship** Adedeji Dunmola, Carleton University

**Prix A.G. Stermac** David M. Cruden (University of Alberta)  
Brad M. Ellingwood (Chief Geotechnical Engineer, E2K Engineering Ltd.)  
Heinrich K. Heinz, (Managing Director /Geotechnical Engineer, Thurber Engineering Ltd.)  
David F. Wood (David F. Wood Consulting Ltd.)

**Discours d'ouverture R.M. Hardy** Kwan Yee Lo, Professor Emeritus, University of Western Ontario.

**Exposé d'orientation de CGS** Not scheduled for the 2011 Pam-Am-CGS Toronto Conference.

**Conférence de Casagrande** R. Kerry Rowe, Professor and Vice-Principal (Research) Queens's University

**Colloque géotechnique canadien** Craig Lake, Associate Professor, Dalhousie University.

**Excursions de conférence en travers du Canada** Mark Diederichs (Spring 2011), Steven G. Vick (Fall 2011)

## **INSTITUT CANADIEN DES INGÉNIEURS (ICI)**

**La Médaille K. Y. Lo Medal** W. D. Liam Finn, Professor Emeritus, University of British Columbia

**Camaraderie de l'institut** Jean Hutchinson, Professor, Queen's University

**Camaraderie de l'institut** Wayne Savigny, BGC Engineering Inc., Co-founder and Principal

**THE CANADIAN GEOTECHNICAL SOCIETY  
LA SOCIÉTÉ CANADIENNE DE GÉOTECHNIQUE**

**2011 DIRECTORS – AND COMMITTEE CHAIRS, OTHER POSITIONS AND SECRETARIAT  
DIRECTEURS POUR L'ANNÉE 2011 – ET PRÉSIDENTS DE COMITÉS, AUTRES POSTES ET SECRÉTARIAT**

Terms end 31 December in the year shown. This document can also be found at

<http://cgs.ca/cgs-board.php?lang=en>

<p><b>President</b> <b>Président</b> <i>Term ends 31 December 2012</i> <b>Bryan Watts, P.Eng.</b> Klohn Crippen Berger 500 – 2955 Virtual Way Vancouver, BC, V5M 4X6 Tel: 604 251-8444 Fax: 604 251-8570 <a href="mailto:bwatts@klohn.com">bwatts@klohn.com</a></p>	2012	<p><b>Marcia MacLellan, P.Eng. *</b> Klohn Crippen Berger Ltd. Suite 500 - 2618 Hopewell Place NE Calgary, AB T1Y 7J7 Tel: 403 730-6819 Fax: 403 274-5349 <a href="mailto:mmaclellan@klohn.com">mmaclellan@klohn.com</a>  <b>* Represents Sections on Committee</b></p>	2011
<p><b>Vice President Technical</b> <b>Vice Président Technique</b> <b>John Sobkowicz, P.Eng.</b> Thurber Engineering Ltd. No. 180,7330 Fisher Street SE Calgary, Alberta, T2H 2H8 Tel: 403 253-9217 Fax: 403 252-8159 <a href="mailto:JSobkowicz@thurber.ca">JSobkowicz@thurber.ca</a></p>	2012	<p><b>DIVISION CHAIRS</b> <b>PRÉSIDENTS DES DIVISIONS</b> <i>3-year term ending 31 December of year listed</i></p> <p><b>Cold Regions Geotechnology</b> <b>Géotechnologie des régions froides</b> <b>Lukas Arenson, P.Eng.</b> BGC Engineering Inc. Suite 500 - 1045 Howe Street Vancouver, BC. V6Z 2A9 Tel. 604 684-5900 Ext.116, Fax: 604 684-5909 <a href="mailto:larenson@bgcengineering.ca">larenson@bgcengineering.ca</a></p>	2013
<p><b>Vice President Financial</b> <b>Vice Président aux Finances</b> <b>Peter Gaffran, P.Eng.</b> BC Hydro 921 Silica Street Nelson BC, V1L 4N7 Tel: 250 359-6768 Fax: 250 359-6759 <a href="mailto:peter.gaffran@bchydro.com">peter.gaffran@bchydro.com</a></p>	2012	<p><b>Engineering Geology</b> <b>Géologie de l'ingénieur</b> <b>Davide Elmo</b> Golder Associates Ltd. 500 - 4260 Still Creek Drive, Burnaby, BC, V5C 6C6 Tel: 604 296-4200 Fax: 604 298-5253 <a href="mailto:Davide_Elmo@golder.com">Davide_Elmo@golder.com</a></p>	2012
<p><b>Vice-President Communications</b> <b>Vice Président aux Communications</b> <b>Jean-Marie Konrad, ing.</b> Department of Civil Engineering Pavillon Pouliot Université Laval Québec, Québec, G1V 0A6 Tel: 418 656-3878 Fax: 418 656-2928 <a href="mailto:jmk.vpcomcgs@gmail.com">jmk.vpcomcgs@gmail.com</a></p>	2012	<p><b>Geoenvironmental</b> <b>Géologie de l'environnement</b> <b>Cynthia Coles, P.Eng.</b> Memorial University of Newfoundland Faculty of Engineering and Applied Science St. John's, NL A1B 3X5 Tel: 709 864-8704 Fax: 709 864-4042 <a href="mailto:ccoles@mun.ca">ccoles@mun.ca</a></p>	2013
<p><b>Chris Hawkes, P.Geo. *</b> Department of Civil and Geological Engineering University of Saskatchewan 57 Campus Drive Saskatoon, SK S7N 5A9 Tel: 306 966-5753 Fax: 306 966-5427 <a href="mailto:chris.hawkes@usask.ca">chris.hawkes@usask.ca</a>  <b>*Represents Technical Divisions on Committee</b></p>	2011	<p><b>Geosynthetics</b> <b>Géosynthétiques</b> <b>R. Kerry Rowe, P.Eng.</b> Department of Civil Engineering Ellis Hall Queen's University Kingston, ON K7L 3N6 Tel: 613 533-3113 Fax: 613 533-2128 <a href="mailto:kerry@civil.queensu.ca">kerry@civil.queensu.ca</a></p>	2013

**Hydrogeology** 2013  
**Hydrogéologie**  
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**Rock Mechanics** 2011  
**Mécanique des roches**  
**Chris Hawkes, P.Geo. \***  
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57 Campus Drive  
Saskatoon, SK S7N 5A9  
Tel: 306 966-5753 Fax: 306 966-5427  
chris.hawkes@usask.ca

**\*Represents Technical Divisions on Executive Committee**

**Soil Mechanics and Foundations** 2013  
**Mécanique des sols et des fondations**  
**Bipul Hawlader, P.Eng.**  
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Memorial University of Newfoundland  
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**SECTION DIRECTORS**  
**DIRECTEURS DES SECTIONS**  
*3-year term ending 31 December of year listed*

**British Columbia**  
**Colombie-Britannique**  
*Vancouver Geotechnical Society* 2012  
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*Prince George Geotechnical Group* 2012  
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*Interior BC Geotechnical Group* 2011  
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**N. Alberta, N.W. Territories, Yukon**  
**Nord de l'Alberta, Terr. du Nord-Ouest et Yukon**  
*Geotechnical Society of Edmonton* 2013  
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**Southern Alberta**  
**Sud de l'Alberta**  
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**\* Represents Sections on Executive Committee**

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*Regina Geotechnical Group* 2013  
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*Saskatoon Geotechnical Group* 2013  
**Kelly Pardoski, P. Eng.**  
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806-48th Street E.  
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k.pardoski@machibroda.com

<b>Manitoba</b> <i>Winnipeg Section</i> <b>Nelson Ferreira, P.Eng.</b> Trek Geotechnical Inc. P.O. Box 55035, 710 Anne's Road Winnipeg, MB R2N 0A8 Tel: 204 975-9433 Fax: 204 975-9435 nferreira@trekgeotechnical.ca	2013	<i>Sudbury Group</i> <b>Tommi J. Leinala, P.Eng</b> AMEC Earth & Environmental 131 Fielding Road Lively, Ontario, P3Y 1L7 Tel. 705 682-2363 Fax: 705 682-2260 tommi.leinala@amec.com	2013
<b>Eastern and Northern Ontario</b> <i>Est et Nord de l'Ontario</i> <i>Ottawa Geotechnical Group</i> <b>Baolin Wang, P.Eng.</b> GSC, NRCan, 601 Booth St., Ottawa, Ontario, K1A 0E8 Tel.613 992-8323 Fax: 613 992-0190 <a href="mailto:bwang@nrcan.gc.ca">bwang@nrcan.gc.ca</a>	2012	<b>Ouest du Québec</b> <i>Western Quebec</i> <b>Robert P. Chapuis, ing.</b> Dept. of Civil, Geological and Mining Engineering Ecole Polytechnique P.O. Box 6079, Sta. Centre-ville Montreal, QC H3C 3A7 Tel. 514 340-4711 X4427 Fax 514 340-4477 <a href="mailto:robert.chapuis@polymtl.ca">robert.chapuis@polymtl.ca</a>	2011
<i>Thunder Bay</i> <b>Myint Win Bo, P.Eng., P.Geo.</b> DST Consulting Engineers 605 Hewitson Street Thunder Bay, ON P7B 5V5 Tel: 807 626-1312 Fax: 807 623-1792 <a href="mailto:mwinbo@dstgroup.com">mwinbo@dstgroup.com</a>	2011	<b>Est du Québec</b> <i>Eastern Quebec</i> <i>Quebec City</i> <b>Didier Perret, ing.</b> Natural Resources Canada 665 Rue Ste-Thérèse Québec, QC G1N 1R6 Tel: 418 654-2686, Fax: 418 654-2615 <a href="mailto:dperret@nrcan.gc.ca">dperret@nrcan.gc.ca</a>	2011
<i>Kingston Group</i> <b>Martin Burger, P. Eng.</b> Cruickshank Construction Ltd. 751 Dalton Avenue Kingston, ON K7M 8N6 Tel: 613 542-2874 x3038; Fax: 613 549-0817 <a href="mailto:martin.burger@cruickshankgroup.com">martin.burger@cruickshankgroup.com</a>	2013	<b>Atlantic Provinces</b> <b>Provinces de l'Atlantique</b> <i>Nova Scotia Chapter</i> <b>Anthony Urquhart, P.Eng.</b> BGC Engineering Inc. Suite 630 - 1718 Argyle Street Halifax, NS B3J 3N6 Tel: 902 474-5925 Fax: 902 474-5929 <a href="mailto:turquhart@bgcengineering.ca">turquhart@bgcengineering.ca</a>	2013
<b>Southern Ontario</b> <i>Sud de l'Ontario</i> <i>Toronto Group</i> <b>Tae C. Kim, P.Eng.</b> Ministry of Transportation, Ontario Building C, Room # 232 1201 Wilson Avenue Downsview, ON M3M 1J8 Tel: 416 235-3506, Fax: 416 235-3919 <a href="mailto:tae-c.kim@ontario.ca">tae-c.kim@ontario.ca</a>	2011	<i>New Brunswick Chapter</i> <b>Adrian Thompson, MIT</b> GEMTEC Limited 77 Rooney Crescent Moncton, NB E1E 4M4 Tel: 506 858-0742, Fax: 506 858-7180 <a href="mailto:adrian.thompson@gemtec.ca">adrian.thompson@gemtec.ca</a>	2011
<i>London Group</i> <b>Daniel R. Babcock, P.Eng.</b> Golder Associates Ltd. 309 Exeter Road, Unit #1 London, ON N6L 1C1 Tel: 519 652-0099, Fax: 519 652-6299 <a href="mailto:Dan_Babcock@golder.com">Dan_Babcock@golder.com</a>	2012	<i>Newfoundland Chapter</i> <b>Arash Zakeri, P. Eng.</b> C-CORE Captain Robert A. Bartlett Building Morrissett Road St. John's, NL A1B 3X5 Tel: 709 864-4313 Fax: 709 864-4706 <a href="mailto:arash.zakeri@c-core.ca">arash.zakeri@c-core.ca</a>	2013

## OTHER DIRECTORS

**Chair, Geotechnical Research Board** 2013  
**Président, Conseil de la recherche en géotechnique**

**James Blatz, P.Eng.**

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University of Manitoba  
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[blatzja@cc.umanitoba.ca](mailto:blatzja@cc.umanitoba.ca)

**Representative of CSCE on CGS Board:** 2011

**Randy Pickle, P. Eng., FCSCE, FEC**

Morrison Hershfield  
Suite 600, 235 Yorkland Blvd.  
Toronto, ON M2J 1T1  
Tel: 416 499-3110 Ext 1379 Fax: 416 499-9658  
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[Note: CSCE President's term ends in June. Above term starts in June 2011]

## EX OFFICIO DIRECTORS

**Past President** 2011

**Michel Aubertin, ing.**

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Tel: 514 340-4711 X 4046 Fax: 514 340-4477  
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**Editor Canadian Geotechnical Journal**  
**Le directeur de la rédaction de la Revue canadienne de géotechnique**

*from 1 April 2007*

**Ian Moore, P.Eng.**

Dept. of Civil Engineering  
Ellis Hall, Queen's University  
Kingston, ON K7L 3N6  
Tel: 613 533-3160 Fax: 613 533-2128  
[moore@civil.queensu.ca](mailto:moore@civil.queensu.ca)

**Editor, CGS New in Geotechnical News** 2012

**Le directeur de la rédaction des Nouvelles de la SCG**

**Phil Bruch, P.Eng.**

Golder Associates Ltd.  
1721 8<sup>th</sup> Street East  
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## CHAIRS OF STANDING COMMITTEES LES PRÉSIDENTS DES COMITÉS PERMANENTS

*3-year terms ending 31 December*

**Computing Committee** 2012

**Le comité sur l'informatique**

**Peijun Guo, P.Eng**

Department of Civil Engineering  
McMaster University  
1280 Main Street West  
Hamilton ON L8S 4L7  
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**Education Committee** 2013

**Le comité sur l'éducation**

**Greg Siemens, P.Eng.**

GeoEngineering Centre at Queen's-RMC  
Department of Civil Engineering  
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[Greg.Siemens@rmc.ca](mailto:Greg.Siemens@rmc.ca)

**Heritage Committee** 2011

**Le comité Héritage**

**Jim Graham, P.Eng.**

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**Landslides Committee** 2011

**Le comité sur les glissements de terrain**

**Corey R. Froese, P.Eng., P.Geol.**

Energy Resources Conservation Board  
Alberta Geological Survey  
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[corey.froese@ercb.ca](mailto:corey.froese@ercb.ca)

**Membership -Task Force Committee for 2011**  
**Comité spécial sur l'adhésion des membres, 2011**

**Richard J. Bathurst, P.Eng.**

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**Le comité sur la pratique professionnelle**  
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**President - Bryan D. Watts**  
**Report of Activities - July 1, 2010 to June 30, 2011**

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The Canadian Geotechnical Society thrives due to the hard work of its membership, its Secretary General, **Dr. Vic Sowa**, and the CGS Administrator, **Wayne Gibson**. Dr. Sowa continues to maintain his vigilance over the affairs of the CGS which means keeping us on track and focused. We must always remember that this technical society is simply the sum of the work of its volunteers whose motives are to advance geotechnical knowledge and awareness in our country. This work is especially important in an age where engineers and scientists are in short supply and more young people need to understand the rewards of such careers.

Assisting me in our first year on the Executive Committee are **Dr. John Sobkowicz**, VP Technical; **Mr. Peter Gaffran**, VP Finance, and **Dr. Jean Marie Konrad**, VP Communications. **Ms. Marcia MacLellan** represents the Local Sections while **Dr. Chris Hawkes** represents the Divisions. We are looking for volunteers to replace both of these latter positions which are for one year terms.

One of the most satisfying experiences as President is to participate in committees which select our Award winners. We have so many deserving people in the CGS. At the same time, I discovered that nominations are much harder to procure than award winners. Please nominate deserving individuals when the calls come out for the EIC and CGS awards. If you feel your engineering or scientific discipline or region is not well represented, it is because you have not nominated anyone!! We will be asking for nominations for EIC Awards in the fall of 2011 and for CGS Awards in the first part of 2012.

We have some other vacancies present or emerging in the CGS. One is to replace **Mr. Phil Bruch**, who is CGS Editor of *Geotechnical News*. Phil has served two terms. I once did this job and enjoyed it very much. *Geotechnical News* has served our society well for decades. Please approach Phil at [Phil\\_Bruch@golder.com](mailto:Phil_Bruch@golder.com) if you would like to volunteer for this position. Also our Geoenvironmental Division currently lacks a leader. Division status for technical areas in the CGS is significant and presupposes that we have members who want to lead the technology and communication aspects of that discipline. In order for that to actually be true, our membership must participate so we need a volunteer to lead the Geoenvironmental Division. If you are interested in this position, please approach our VP, Technical, **Dr. John Sobkowicz**.

We are on the verge of having a Mining Geotechnique Committee. This was proposed by **Dr. Michel Aubertin**, our hard working past President, who will present his motion at the October 2011 Board of Directors meeting. The goal of this new committee is to represent all those CGS members who work and do research in Canada's dynamic mining industry. We look forward to this committee starting its work.

You will note in his report to the CGS, that our **Mr. Peter Gaffran**, VP Finance, is projecting a deficit for this year, 2011. This was predicted in 2010 because it is not expected that the Pan American-CGS Conference will make the same profit as other annual conferences. This annual conference profit together with the funds from the Canadian Foundation Engineering Manual (CFEM) keeps the CGS membership fee low. The CGS Executive believes that this situation is not sustainable and a membership increase may have to be presented to the CGS annual meeting next year. I believe that the value from the CGS is the best of my technical memberships. I pay twice as much for other similar technical societies who represent less value to me personally. Last year we had a fee increase because support of the Canadian Geotechnical Journal by the NRC was discontinued but that was a straight pass through of funds.

All technical societies will face challenges in the next few years as government support goes to zero and our membership increasingly scrutinize their own personal finances. As we go through this period of adjustment it is important to remember the great value of the CGS to our membership and the overwhelming in kind support by volunteers compared to fees. As example, our Canadian Geotechnical Journal, edited by **Dr. Ian Moore**, is one of the finest in the world. Our 63<sup>rd</sup> Annual Conference held last year in Calgary, chaired by **Mr. Charles Kwok** was an overwhelming success enjoyed by hundreds of participants. Although smaller, our 5<sup>th</sup> GeoHazards Conference this May, chaired by **Dr. Dwayne**

**Tannant** in Kelowna was also very successful. It attracted participants from many parts of the world. The Cross Canada Lecture Tours (CCLT) by **Dr. Sarah Springman** in 2010 and **Dr. Mark Diederichs** in 2011 attracted much attention across the country. Geotechnical engineers outside of Canada invited to give this series of lectures see this as a distinction in their careers.

Our distinguished past President, **Dr. Dennis Becker**, was given the Legget Award in 2010 at our Calgary conference for his distinguished geotechnical engineering career. Earlier this year, Dr. Becker was named to Canadian Academy of Engineering as was **Dr. Dave Sego** of the University of Alberta. There will be a symposium on April 26 and 27<sup>th</sup> 2012 in honour of Dr. Sego's retirement in 2012 at the University of Alberta. **Dr. Liam Finn** of the University of British Columbia won the K.Y. Lo Medal from the Engineering Institute of Canada (EIC). Our **Dr. Jean Hutchinson** of Queens University and **Dr. Wayne Savigny** of BGC were elected to Fellows of the EIC. These are notable achievements which the CGS facilitates through the hard work of all of its volunteers.

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**Rapport aux membres de la SCG – Bryan D. Watts, président**  
**Rapport d'activités - Du 1<sup>er</sup> juillet 2010 au 30 juin 2011**

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La Société canadienne de géotechnique est prospère, grâce à l'excellent travail réalisé par ses membres, son secrétaire général **Vic Sowa, Ph. D.**, et son administrateur, **Wayne Gibson**. Vic Sowa continue de surveiller attentivement les affaires de la SCG, en nous gardant sur la bonne voie pour maintenir le cap. Nous devons toujours garder à l'esprit que cette société technique est la somme du travail de ses bénévoles, qui ont pour la motivation de faire avancer les connaissances géotechniques et d'augmenter la conscientisation à leur égard au pays. En cette ère où règne une pénurie d'ingénieurs et de scientifiques et où les jeunes doivent comprendre les avantages de ces carrières, ce travail revêt une importance toute particulière.

Pour cette première année à notre Comité exécutif, je peux compter sur le concours du vice-président technique, **John Sobkowicz, Ph. D.**; du vice-président des finances, **M. Peter Gaffran**; et du vice-président des communications, **Jean-Marie Konrad, Ph. D.** Les sections locales sont représentées par **Mme Marcia MacLellan** et les divisions par **Chris Hawkes, Ph. D.** Nous sommes d'ailleurs à la recherche de bénévoles pour ces deux derniers postes, dont le mandat est d'un an.

L'une des expériences les plus satisfaisantes du poste de président est de participer aux comités qui sélectionnent les lauréats de nos prix. La SCG compte beaucoup de personnes méritantes. Mais cette expérience m'a fait découvrir qu'il est bien plus difficile d'obtenir des mises en candidature que de décerner des distinctions aux lauréats. Veuillez prendre le temps de proposer la candidature d'individus méritants lorsque nous lançons des appels de mise en candidature pour les prix de l'ICI et de la SCG. Si vous estimez que votre discipline scientifique, votre domaine d'ingénierie ou votre région ne sont pas dûment représentés, c'est parce que vous n'avez proposé personne! Nous solliciterons des mises en candidature pour les prix de l'ICI à l'automne 2011 et pour les prix de la SCG au début de 2012.

D'autres postes sont présentement vacants à la SCG ou le seront bientôt. L'un d'eux est le poste de **M. Phil Bruch**, rédacteur de la revue *Geotechnical News* de la SCG, qui a effectué deux mandats. J'ai occupé ce poste par le passé et ai beaucoup aimé l'expérience. *Geotechnical News* sert notre Société depuis des décennies. Si vous souhaitez vous porter volontaire pour ce poste bénévole, veuillez communiquer avec Phil Bruch, à [Phil\\_Bruch@golder.com](mailto:Phil_Bruch@golder.com). De plus, notre Division de l'ingénierie géoenvironnementale n'a pas de président, à l'heure actuelle. Les Divisions représentant les diverses disciplines techniques de la SCG jouissent d'un statut important qui présuppose que nous comptons, dans nos rangs, des membres qui souhaitent assumer un rôle de leadership au sujet de la technologie et des communications d'une discipline donnée. Mais pour que cela soit une véritable réalité, il faut que nos membres participent. Nous avons donc besoin d'un volontaire pour être à la tête de la Division de l'ingénierie géoenvironnementale. Si ce poste vous intéresse, veuillez communiquer avec notre vice-président technique, **John Sobkowicz, Ph. D.**

Nous sommes sur le point de former un Comité sur la géotechnique minière. Ce comité a été proposé par notre excellent président sortant **Michel Aubertin, Ph. D.**, qui présentera sa résolution lors de la réunion du conseil d'administration en octobre 2011. Le but de ce nouveau comité est de représenter tous les membres de la SCG qui œuvrent et font de la recherche dans le secteur dynamique de l'industrie minière canadienne. Nous avons hâte que ce comité commence ses travaux.

Vous remarquez que, dans son rapport d'activités à la SCG, notre vice-président des finances, **Peter Gaffran**, prévoit un déficit pour le présent exercice. Ce déficit avait été prédit dans l'exercice 2010, parce qu'on ne s'attend pas à ce que la Conférence panaméricaine de la SCG réalise le même profit que nos autres conférences annuelles. C'est grâce au profit des conférences annuelles, auxquels s'ajoutent les fonds que rapporte le Manuel canadien d'ingénierie des fondations (MCIF), que le prix des cotisations de membres à la SCG demeure peu élevé. Le Comité exécutif de la SCG estime que cette situation n'est pas viable et qu'il faudra peut-être présenter une augmentation des cotisations à l'assemblée générale de la SCG de l'an prochain. J'estime que ce que je retire de la SCG, en termes de rapport qualité-prix, l'emporte de loin sur mes adhésions à des sociétés techniques similaires. Je verse à ces dernières des frais deux fois plus élevés et elles m'en donnent moins à titre personnel. Certes, nous avons augmenté les cotisations l'année dernière, mais c'était parce que le CNRC avait cessé de soutenir la Revue canadienne de géotechnique. Les fonds produits par cette augmentation n'ont fait que passer dans nos coffres.

Comme les subventions gouvernementales deviennent chose du passé et que nos membres font très attention à leurs propres deniers, toutes les sociétés techniques feront face à des difficultés au cours des prochaines années. Pendant cette période d'ajustement, il est important de garder à l'esprit l'excellent rapport qualité-prix fourni par la SCG à ses membres et les extraordinaires contributions en nature de ses bénévoles, au regard de la cotisation demandée. À titre d'exemple, mentionnons notre Revue canadienne de géotechnique, l'une des meilleures au monde dans le domaine, dont le rédacteur **est Ian Moore, Ph. D.** Notre 63<sup>e</sup> conférence annuelle de l'an dernier, qui a eu lieu à Calgary et était présidée par **M. Charles Kwok**, a connu un succès extraordinaire dont peuvent témoigner des centaines de participants. Bien que de plus petite envergure, notre conférence Géorisques V de mai 2011 à Kelowna, que présidait **Dwayne Tannant, Ph. D.**, a également été très réussie. Elle a attiré des participants de plusieurs régions dans le monde. Les exposés des Tournées de conférences pancanadiennes (TCP) présentés en 2010 par **Sarah Springman, Ph. D.**, et en 2011 par **Mark Diederichs, Ph. D.**, ont suscité beaucoup d'attention au pays. Les ingénieurs géotechniques de l'extérieur du Canada qui sont invités à prononcer cette série de conférences la considèrent comme une distinction de leur parcours de carrière.

L'un de nos distingués anciens présidents, **Dennis Becker, Ph. D.**, a reçu le Prix Legget en 2010 lors de notre conférence de Calgary, pour sa carrière exceptionnelle en ingénierie géotechnique. Au début de l'année, Dennis Becker a été nommé à l'Académie canadienne du génie, tout comme **Dave Segó, Ph.D.**, de l'Université de l'Alberta. Un symposium aura lieu les 26 et 27 avril 2012 à l'Université de l'Alberta, en l'honneur du départ à la retraite de Dave Segó. La médaille K.Y. Lo de l'Institut canadien d'ingénierie (ICI) a été décernée à **Liam Finn, Ph. D.**, de l'Université de la Colombie-Britannique. Enfin, deux de nos membres ont été nommés fellows de l'ICI : **Jean Hutchinson, Ph. D.**, Queen's University, et **Wayne Savigny, Ph. D.**, de la société BGC. Il s'agit là de réalisations remarquables qui ont été facilitées par la SCG, grâce à l'excellent travail de tous ses bénévoles.

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**Vice-President Technical - John Sobkowicz**  
**Report of Activities - July 1, 2010 to June 30, 2011**

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**CGS Sections (and Related Activities)**

There are 20 local sections of the CGS:

- 3 in Atlantic Canada\* (with 11 executive members),
- 2 in Quebec (with 19 executive members),
- 6 in Ontario, (with 66 executive members),
- 1 in Manitoba, (with 8 executive members),
- 2 in Saskatchewan, (with 13 executive members),
- 2 in Alberta, (with 28 executive members), and
- 4 in British Columbia (with 20 executive members).

Annual reports were received from all sections. We thank the chairs, co-chairs and other executive members for their careful service to the local members. At present, the chair of the \*Moncton Section is vacant.

The local sections are active in sponsoring technical presentations, special events (e.g., the Cross Canada Lecture Tour), student forums and social activities. During the period July 1, 2010 to June 30, 2011, the CGS sections held 97 technical presentations, 6 short courses, 7 student events and 2 conferences.

**CGS Sponsored, Co-Sponsored and Supported Conferences**

The following conferences were held in late 2010 or will be held in 2011:

- 63rd Canadian Geotechnical Conference and 6th Canadian Permafrost Conference, Sept. 12-16, 2010, Calgary.
- 3rd cYGEgc, Sept 16-18, 2010, Waterton Nat. Park, AB, <http://www.geotechnical.ca/cygegc2010/>
- 2<sup>nd</sup> Symposium on Aquitard Hydrogeology: Aquitards for Hazardous Waste Management, Ottawa, October 2010.
- 5<sup>th</sup> Canadian Conference on Geotechnique and Natural Hazards, Geohazards 5, Kelowna BC, 5 May 15-17 2011.
- Slope Stability 2011 (supported conference) – International Symposium on Rock Slope Stability in Open Pit Mining and Civil Engineering, Vancouver, September 18-21, 2011.
- 64th Canadian Geotechnical Conference, Toronto, October 2-6, 2011
- 14th ISSMGE Pan-American Conference on Soil Mechanics and Foundation Engineering and 5th Pan-American Conference on Teaching and Learning of Geotechnical Engineering, Toronto, October 2-6, 2011.

The following conferences are planned for the next 2 years:

- Dave C Sego Symposium will be held in Edmonton, Alberta on April 26/27, 2012.
- 21<sup>st</sup> Canadian Rock Mechanics Symposium (RockEng12) will be held in Edmonton, Alberta in May, 2012.
- 5th ASTM International Symposium on Contaminated Sediments will be held in Montreal on May 23-25, 2012 and will be co-chaired by C. Mulligan.
- Joint 11th International Symposium on Landslides / 2nd North American Conference on Landslides, Banff, June 3-8 2012.
- 65th Canadian Geotechnical Conference, Winnipeg, Sept 30-Oct 3, 2012.

**Cross Canada Lecture Tour**

The tour continues to be a corner stone of the society, having been in existence since 1965. We have had two annual tours in recent years, and these tours are funded through the Canadian Foundation for Geotechnique. Dr. Sarah Springman, Institut für Geotechnik, IGT, ETH Zürich, Switzerland gave the fall 2010 CCLT, from October 19 – November 3. She spoke on “The Rüdlingen Landslide Experiment”. The spring 2011 CCLT was presented by Dr. Mark Diederichs (Queen’s University), from April 10 – 28. He spoke on “Laser Scanning for Rock Mass Characterization on Slopes and Tunnels”, “Deep Tunnelling in Hard, Brittle Rock”, and “Geotechnical Performance of a Deep Geological Depository for Nuclear Waste”.

The fall 2011 CCLT will be presented by Steven G. Vick, author of "Planning, Design and Analysis of Tailings Dams" and "Degrees of Belief". The schedule is currently being developed, but will occur between October 24 and November 4. Mr. Vick has proposed three potential talks: "Geotechnical Risk and Public Policy – The Other Side of the Wall", "The Consequences of Tailings Dam Failures", and "The Science of Judgement".

It is important to note that these tours are funded through the Canadian Foundation for Geotechnique and to acknowledge the generous support of the industry sponsors.

### **Canadian Geotechnical Journal**

The journal is an important showcase for our community, publishing both international and national high quality manuscripts and maintaining its strong reputation as one of the three leading international geoenvironmental journals. The journal continues to flourish under the guidance of editor, Dr. Ian Moore. During 2010, 352 manuscripts were received (up from 350 in 2009) and 101 were published (90 articles and 11 notes), with an acceptance rate of 28% (down from 33% in 2009 as a result of efforts to increase standards). Dr. Moore also continues to work on improving decision-making times leading to a quicker paper acceptance, which has a major impact on attracting contributions from leading scholars and practitioners.

We thank the members of CGS who act as Associate Editors and as Paper Reviewers for the Journal (past and present). Currently there are 16 Canadians and 12 other CGS members from Australia, Hong Kong, Singapore, the UK, and the USA, serving as Associate Editors.

An important development is that the CGJ is now being published by Canadian Science Publishing.

### **CGS Divisions**

Six technical divisions have provided annual reports listing their activities during the period and future activities (Geoenvironmental provided a half-year report on March, 2011):

- Cold Regions (CRGD); Chair: Lukas Arenson (6 executive; 61 "first choice" CGS members)
- Engineering Geology (EGD); Chair: Davide Elmo (3 executive; 129 "first choice" CGS members)
- Geoenvironmental Engineering (GED); Chair: Cynthia Coles\* (5 executive; 119 "first choice" CGS members)
- Geosynthetics (GSD); Chair: Kerry Rowe (2 executive; 62 "first choice" CGS members)
- Hydrogeology (HGD); Chair: Christopher Neville (4 executive; 67 "first choice" CGS members)
- Rock Mechanics (RMD); Chair: Chris Hawkes (4 executive; 77 "first choice" CGS members)
- Soil Mechanics and Foundation Engineering (SMFD); Chair: Bipul Hawlader\*\* (12 executive; 688 "first choice" CGS members).

\*One of the new Chairs, Cynthia Coles, has resigned (but is willing to sit as a member-at-large). A new Chair for Geoenvironmental Engineering Committee thus needs to be appointed.

\*\*Dr. Sharma was originally the Chair of the SMFD; he needed to step down a year early and the position of Chair was taken on by the Division's then Vice-Chair, Bipul Hawlader.

Of the seven Divisions, five of the Chairs are new in 2011 and their terms thus end in 2013. Davide Elmo's term ends in 2012 (Chair of Engineering Geology) and Chris Hawkes' term ends this year (2011; Chair of Rock Mechanics).

These divisions are affiliated with a specific international body in their area of specialization, and CGS members gain access to those bodies and their technical committees, conferences, and journals through division membership. A need to improve leadership continuity and expand both committee membership and activity has been recognized in some Divisions. We thank all 7 Division chairs and 29 additional executive members for their valuable contributions.

## **CGS Technical Committees**

The society currently has 6 technical committees:

Standing Committee on Computing - Chair: Peijun Guo (8 Committee Members)  
Standing Committee on Education - Chair: Greg Siemens (13 Committee Members)  
Standing Committee on Heritage; Chair: Jim Graham\* (15 Committee Members)  
Standing Committee on Landslides; Chair: Corey Froese (5 Committee Members)  
Standing Committee on Professional Practice: Chair: Kent Bannister (5 Committee Members)  
Standing Committee on Transportation Geotechnique: Chair Tom Keegan (31 Committee Members)

\*Jim Graham's term as Heritage Committee Chair is ending on 31 December 2011; Mustapha Zergoun will succeed him.

All 6 committees are active and have submitted written annual reports. We take this opportunity to express our appreciation to the 6 committee chairs and the 71 additional committee members for their valuable contributions.

A proposal will be brought to the CGS Executive at its Board meeting in early October to consider the idea of creating a new Technical Committee on Mining Geotechnique, sponsored by Michel Aubertin, Bruno Brussiere, Murray Grabinsky, Paul Simms, Dharma Wijewickreme and Ward Wilson.

## **Canadian Geotechnical Research Board**

The Canadian Geotechnical Research Board has 9 executive members, chaired by James Blatz (Associate Dean Research, University of Manitoba).

The Colloquium speaker for the 64th Annual Conference in Toronto will be Craig Lake, Associate Professor, Dalhousie University. Four strong candidates were nominated for the 2012 Colloquium; the selected candidate will remain confidential until the Toronto conference.

## **Engineering Institute of Canada**

Several CGS members were honoured by the EIC at its annual banquet on March 5, 2011 in Ottawa: Liam Finn received the K.Y. Lo Medal, and Jean Hutchinson and Wayne Savigny were made Fellows of the EIC. (Note that the EIC policy is to deliver about 20 fellowships per year, and there are over 20,000 members in the 12 constituent societies).

## **Canadian Foundation Engineering Manual**

The French translation of the CFEM 4 has recently been completed by Jean Lafleur, Denis Leboeuf, Jean-Marie Konrad, Elie Rahhal and Paul Chiasson. It is currently being copy-edited, and some chapters have been forwarded for publication layout. A publisher has yet to be selected.

## **CGS News**

The CGS News is published four times a year (March, June, September and December) and is mailed to CGS members as well as being posted on the CGS web site.

Phil Bruch is entering his final (6<sup>th</sup> year) as editor of the CGS News and is currently searching for a replacement.

## **Membership Committee Task Force**

Dr. Richard Bathurst chairs the Membership Committee Task Force, which has seven other members. This task force has a mandate to investigate why the CGS membership numbers are flat and to recommend how they can be increased, with a final report expected to be presented to the CGS Board of Directors Meeting in October, 2011.

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**Vice-président, programme technique – John Sobkowicz**  
**Rapport d'activités - Du 1<sup>er</sup> juillet 2010 au 30 juin 2011**

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### **Sections de la SCG (et activités connexes)**

La SCG compte 20 sections locales :

- 3 dans la région Atlantique du Canada\* (comptant 11 membres exécutifs);
- 2 au Québec (comptant 19 membres exécutifs);
- 6 en Ontario (comptant 66 membres exécutifs);
- 1 au Manitoba (comptant 8 membres exécutifs);
- 2 en Saskatchewan (comptant 13 membres exécutifs);
- 2 en Alberta (comptant 28 membres exécutifs); et
- 4 en Colombie-Britannique (comptant 20 membres exécutifs).

Toutes les sections ont envoyé leur rapport annuel. Nous remercions les présidents, les vice-présidents et les autres membres exécutifs des services inestimables qu'ils ont rendus aux membres locaux. Présentement, le poste de président de la section de \*Moncton est vacant.

Les sections locales commanditent activement des présentations techniques, des événements spéciaux (p. ex., la Tournée de conférences pancanadiennes), des forums étudiants et des activités sociales. Durant la période du 1<sup>er</sup> juillet 2010 au 30 juin 2011, les sections de la SCG ont tenu 97 présentations techniques, 6 cours intensifs, 7 événements étudiants et 2 conférences.

### **Conférences commanditées, cocommanditées et subventionnées par la SCG**

Les conférences suivantes ont eu lieu à la fin de 2010 ou auront lieu en 2011 :

- les 63<sup>e</sup> conférence géotechnique canadienne et 6<sup>e</sup> conférence canadienne sur le pergélisol, du 12 au 16 septembre 2010, à Calgary;
- le 3<sup>e</sup> congrès canadien des jeunes géoscientifiques et géotechniciens, du 16 au 18 septembre 2010, Parc national Waterton, Alberta, <http://www.geotechnical.ca/cygegc2010/>;
- le 2<sup>e</sup> symposium sur l'hydrogéologie des aquitards : Les aquitards pour la gestion des déchets dangereux, Ottawa, octobre 2010;
- la 5<sup>e</sup> conférence canadienne sur la géotechnique et les géorisques, Géorisques V, Kelowna (Colombie-Britannique), du 15 au 17 mai 2011;
- Stabilité des pentes 2011 (conférence subventionnée) – Symposium international sur la stabilité des pentes rocheuses dans une exploitation minière à ciel ouvert et sur le génie civil, Vancouver, du 18 au 21 septembre 2011;
- 64<sup>e</sup> conférence géotechnique canadienne, Toronto, du 2 au 6 octobre 2011;
- 14<sup>e</sup> conférence panaméricaine de la SIMSG sur la mécanique des sols et le génie des fondations et 5<sup>e</sup> conférence panaméricaine sur l'enseignement et l'apprentissage en ingénierie géotechnique, Toronto, du 2 au 6 octobre 2011.

Les deux prochaines années, les conférences suivantes sont prévues :

- le Symposium Dave C. Segó aura lieu à Edmonton (Alberta), les 26 et 27 avril 2012;
- le 21<sup>e</sup> symposium canadien sur la mécanique des roches (RockEng12) aura lieu à Edmonton (Alberta), en mai 2012;
- le 5<sup>e</sup> symposium international de l'ASTM sur les sédiments contaminés se tiendra à Montréal du 23 au 25 mai 2012 et sera coprésidé par C. Mulligan;
- le 11<sup>e</sup> symposium conjoint international sur les glissements de terrain /2<sup>e</sup> conférence nord-américaine sur les glissements de terrain aura lieu à Banff, du 3 au 8 juin 2012;
- la 65<sup>e</sup> conférence géotechnique canadienne se déroulera à Winnipeg, du 30 septembre au 3 octobre 2012.

### **Tournée de conférences pancanadiennes**

La tournée continue d'être une pierre angulaire de la société étant donné qu'elle existe depuis 1965. Ces dernières années, nous avons organisé deux tournées annuelles. Elles sont subventionnées par la Fondation canadienne de géotechnique. Sarah Springman, Ph. D., de l'Institut für Geotechnik, IGT et de l'ETH Zürich (Suisse) était la conférencière de la TCP de l'automne 2010, qui s'est déroulée du



19 octobre au 3 novembre. Sa conférence s'intitulait « The Rüdlingen Landslide Experiment ». Le conférencier de la TCP du printemps 2011 était Mark Diederichs, Ph. D. (Queen's University), qui a donné les trois conférences suivantes du 10 au 28 avril : « Laser Scanning for Rock Mass Characterization on Slopes and Tunnels », « Deep Tunnelling in Hard, Brittle Rock » et « Geotechnical Performance of a Deep Geological Depository for Nuclear Waste ».

Le conférencier de la TCP de l'automne 2011 sera Steven G. Vick, auteur de « Planning, Design and Analysis of Tailings Dams » et « Degrees of Belief ». Le calendrier est en cours d'élaboration, mais la tournée aura lieu entre le 24 octobre et le 4 novembre. M. Vick a proposé trois sujets possibles : « Geotechnical Risk and Public Policy – The Other Side of the Wall », « The Consequences of Tailings Dam Failures » et « The Science of Judgement ».

Il est important de noter que ces tournées sont subventionnées par la Fondation canadienne de géotechnique et de reconnaître l'appui généreux des commanditaires de l'industrie.

### **Revue canadienne de géotechnique**

La revue est une vitrine importante pour notre communauté. Elle publie des manuscrits de qualité à l'échelle internationale et nationale et elle conserve une solide réputation à titre de l'une des trois revues de géotechnique de premier rang sur le plan international. Sous l'égide de son rédacteur, Ian Moore, Ph. D., la revue continue de prospérer. En 2010, 352 manuscrits ont été reçus (une hausse par rapport aux 350 manuscrits de 2009) et 101 ont été publiés (90 articles et 11 notes), ce qui correspond à un taux d'acceptation de 28 % (une baisse par rapport au taux de 33 % en 2009, qui découle des mesures de resserrement des normes). M. Moore continue également d'améliorer les délais de prise de décision menant à l'acceptation plus rapide des articles, ce qui est d'une très grande incidence pour attirer des textes d'universitaires et de praticiens de premier plan.

Nous remercions les membres de la SCG qui assument les fonctions de rédacteurs associés et d'examineurs d'articles pour le compte de la revue (tant passés que présents). Présentement, 16 membres canadiens de la SCG et 12 membres d'autres pays – Australie, Hong-Kong, Singapour, R.-U. et É.-U. – sont rédacteurs associés.

La RCG a connu un changement important, car elle est désormais publiée par Éditions Sciences Canada.

### **Divisions de la SCG**

Six divisions techniques ont présenté des rapports annuels énumérant leurs activités pour la période et leurs futures activités (la Division de l'ingénierie géoenvironnementale a envoyé un rapport semestriel en mars 2011) :

- la Division de la géotechnique des régions froides (DGRF); président : Lukas Arenson (6 membres exécutifs; 61 membres de la SCG ayant retenu cette division comme « premier choix »);
- la Division de la géologie de l'ingénieur (DGI); président : Davide Elmo (3 membres exécutifs; 129 membres de la SCG ayant retenu cette division comme « premier choix »);
- la Division de l'ingénierie géoenvironnementale (DIG); présidente : Cynthia Coles\* (5 membres exécutifs; 119 membres de la SCG ayant retenu cette division comme « premier choix »);
- la Division de la géosynthétique (DG); président : Kerry Rowe (2 membres exécutifs; 62 membres de la SCG ayant retenu cette division comme « premier choix »);
- la Division de l'hydrogéologie (DH); président : Christopher Neville (4 membres exécutifs; 67 membres de la SCG ayant retenu cette division comme « premier choix »);
- la Division de la mécanique des roches; président : Chris Hawkes (4 membres exécutifs; 77 membres de la SCG ayant retenu cette division comme « premier choix »);
- la Division de la mécanique des sols et fondations (DMSF); président : Bipul Hawlader \*\* (12 membres exécutifs; 688 membres de la SCG ayant retenu cette division comme « premier choix »).

\*L'une des nouvelles présidentes, Cynthia Coles, a démissionné (mais elle est disposée à être membre de l'exécutif). Il est donc nécessaire de nommer un nouveau président pour le Comité exécutif de la Division de l'ingénierie géoenvironnementale.

\*\*Le président Sharma, Ph. D., était le président de la DMSF au départ; il a dû quitter ses fonctions un an avant la fin de son mandat et le poste de président a été assumé par le vice-président du moment, Bipul Hawlader.

Cinq des sept présidents de division ont commencé leur mandat en 2011, lequel se terminera donc en 2013. Le mandat de Davide Elmo prend fin en 2012 (président de la Division de la géologie de l'ingénieur) et celui de Chris Hawkes se termine cette année (2011; président de la Division de la mécanique des roches).

Ces divisions sont affiliées à un organisme international appartenant à leur domaine de spécialisation, et les membres de la SCG accèdent à ces organismes et à leurs comités techniques, à leurs conférences et à leurs revues grâce à l'affiliation des divisions. Certaines divisions ont reconnu avoir besoin d'améliorer la continuité du leadership et d'augmenter tant le nombre de membres du comité exécutif que le niveau d'activité. Nous remercions les présidents des 7 divisions et les 29 membres des comités pour leurs précieuses contributions.

### **Comités techniques de la SCG**

La Société compte actuellement 6 comités techniques :

Comité permanent de l'informatique; président : Peijun Guo (8 membres dans le comité);  
Comité permanent sur l'éducation; président : Greg Siemens (13 membres dans le comité);  
Comité permanent sur le patrimoine; président : Jim Graham (15 membres dans le comité);  
Comité permanent sur les glissements de terrain; président : Corey Froese (5 membres dans le comité);  
Comité permanent sur les pratiques professionnelles; président : Kent Bannister (5 membres dans le comité);  
Comité permanent sur la géotechnique des transports; président : Tom Keegan (31 membres dans le comité).

\* Le mandat de président du Comité sur le patrimoine de Jim Graham prend fin le 31 décembre 2011; Mustapha Zergoun lui succèdera.

Les 6 comités sont actifs et ont soumis des rapports annuels par écrit. Nous prenons l'occasion d'exprimer notre reconnaissance aux présidents des 6 comités ainsi qu'aux 71 autres membres de comités pour leurs inestimables contributions.

Lors de la réunion du conseil d'administration de la SCG qui aura lieu au début d'octobre, une proposition sera présentée au Comité exécutif pour lui demander de se pencher sur l'idée de créer un nouveau comité technique sur la géotechnique minière. La proposition a l'appui de Michel Aubertin, Bruno Brussièrre, Murray Grabinsky, Paul Simms, Dharma Wijewickreme et Ward Wilson.

### **Conseil canadien de recherche en géotechnique**

Le Conseil canadien de recherche en géotechnique compte 9 membres exécutifs et est présidé par James Blatz (doyen associé à la recherche, Université du Manitoba).

Le conférencier qui présentera le colloque de la 64<sup>e</sup> conférence annuelle de Toronto est Craig Lake, professeur agrégé à l'Université Dalhousie. Quatre candidats de choix ont été proposés pour le Colloque de 2012; le nom du candidat sélectionné demeurera confidentiel jusqu'à la conférence de Toronto.

### **Institut canadien d'ingénierie**

Lors de son banquet annuel du 5 mars 2011 à Ottawa, l'ICI a honoré plusieurs membres de la SCG : Liam Finn a reçu la médaille K.Y. Lo, alors que Jean Hutchinson et Wayne Savigny sont devenus fellows de l'ICI. (Veuillez noter que, en vertu de la politique de l'ICI, environ 20 fellowships doivent être décernés chaque année et que les 12 sociétés constituantes comptent plus de 20 000 membres.)

### **Manuel canadien d'ingénierie des fondations**

La traduction française du MCIF a été récemment réalisée par Jean Lafleur, Denis Lebœuf, Jean-Marie Konrad, Elie Rahhal et Paul Chiasson. Elle en est présentement à l'étape de la révision et certains chapitres ont été envoyés pour mise en page. On n'a pas encore retenu de maison d'édition.

### **Actualités de la SCG**

Le bulletin d'actualités de la SCG est publié quatre fois l'an (en mars, en juin, en septembre et en décembre). Il est envoyé aux membres de la SCG par la poste et affiché sur le site Web de la SCG.

Phil Bruch entame la dernière année (la 6<sup>e</sup>) de son poste de rédacteur du bulletin et est actuellement à la recherche d'une personne pour prendre la relève.

### **Groupe de travail spécial sur les adhésions**

Richard Bathurst, Ph. D., préside le Groupe de travail spécial sur les adhésions qui compte sept autres membres. Ce groupe de travail a pour mandat de déterminer les raisons de la stagnation des adhésions à la SCG et de recommander des mesures pour les augmenter. Il est prévu que le rapport final sera présenté au conseil d'administration de la SCG en octobre 2011.

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## ***Vice-President Finance – Peter Gaffran*** ***Report of Activities – July 1, 2010 to June 30, 2011***

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### **General**

This report provides: the CGS's financial results for 2010; year to date financial performance relative to the 2011 budget; a proposed budget for 2012; the CGS's current assets and liabilities; and a summary of costs to produce the French edition of the Canadian Foundation Engineering Manual.

### **2010 Financial Results**

Independently audited financial statements for 2010 are provided on the CGS Website in the same location where this report is shown. The audit was completed by Johnsen Archer Chartered Accountants LLP of Vancouver. Refer to "Statement of Operations Year Ended December 31, 2010" and Schedules 1 through 5. These tables summarize all revenues and expenses incurred by the society in the last as well as the prior (2009) fiscal years.

The main sources of CGS revenue are membership dues, publication income (mostly from the Canadian Foundation Engineering Manual - CFEM) and profit from conferences (primarily the annual conference). Total income in 2010 was \$333.2 k, \$16.9 k less than in 2009. Comparing 2010 to 2009:

- membership dues was down \$17.3 k;
- publication revenue was down \$20.8 k primarily due to a slow down in CFEM sales;
- total conference revenues were up \$23.0 k.

Costs to fund CGS operations in 2010 totaled \$319.7 k incurred from five main expense categories as follows.

- International memberships costing \$33.1 k, down \$2.3 k from 2009.
- CGS expenses associated with conferences totaling \$11.6 k, down \$1 k from 2009.
- Publication costs (Geotechnical News, Canadian Geotechnical Journal and the Canadian Foundation Engineering Manual) totaled \$77.3 k in 2010, down \$12.8 from 2009.
- Fees and wages for CGS staff (Secretary General and Administrator) totaling \$124.8 k. This is \$10.7 k greater than in 2009 primarily due to redevelopment of the CGS website.
- Expenses for society operations totaling \$72.9 k, up \$27.4 k from 2009.

Total 2010 expenses were \$22.1 k higher than in 2009. The most significant expense increase in 2010 was for redevelopment of the CGS website. Website costs totaled \$39.4 k, \$25.5 k higher than the year previous. Not including web costs, CGS expenses in 2010 were \$3.4 k less than in 2009.

The budget presented and ratified at the Halifax annual conference in 2009 projected a loss of \$40.9 k for 2010. This prediction was overly pessimistic as 2010 operations yielded a surplus of \$13.5 k. Profit in previous years was as follows: 2009 - \$52.5k; 2008 - \$73.4 k; 2007 - \$206.6 k. (The large profit in 2007 was largely due to strong initial sales of the 4<sup>th</sup> edition of the CFEM and exceptional revenue from two very successful conferences).

### 2011 Financial Update

The 2011 CGS budget ratified by the membership at the 2010 annual conference in Calgary is summarized in the following two tables. Revenue and expense data to 31 August of this year is also shown along with projections to year end. For comparison, 2010 actuals are provided.

	Revenue (x \$1,000)				
	2010 Actuals	Ratified Budget	2011 To 31 Aug.		Projected to year end
			\$	% of 2010	
Membership Dues	225.1	238.1	240.6	107	245.0
Publications	48.9	35.0	26.9	55	35.0
Conferences	45.8	27.5	0.2	0	28.0
Miscellaneous	13.4	14.0	9.4	70	12.0
<b>SUBTOTALS</b>	<b>333.2</b>	<b>314.6</b>	<b>277.1</b>	<b>82</b>	<b>320.0</b>

	Expenses (x \$1,000)				
	2010 Actuals	Ratified Budget	2011 To 31 Aug.		Projected to year end
			\$	% of 2010	
Intl. Memberships	33.1	37.5	14.2	43	33.0
Conference Expenses	11.6	13.0	0.0	0	13.0
Publication Costs	77.3	120.3	86.8	112	110.0
Staff fees and wages	124.8	117.0	69.5	56	130.0
Society Operations	72.9	54.0	16.3	22	45.0
Miscellaneous	0	9.0	0.0	0	2.0
<b>SUBTOTALS</b>	<b>319.7</b>	<b>350.8</b>	<b>186.8</b>	<b>58</b>	<b>333.0</b>

<b>PROFIT/LOSS</b>	<b>13.5</b>	<b>-36.2</b>	<b>87.0</b>	<b>-</b>	<b>-13.0</b>
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Total membership at the end of August was 1,139, 31 less than this time last year and 64 less than the final 2010 membership count. In the past, a mid year boost to membership would occur because this afforded the enrollee a reduced registration fee for the annual conference. Reduced conference registration cannot be offered to CGS members this year because the event is being held jointly with the ISSMGE. Thus it is not anticipated that the membership total will increase substantially in the remainder of the year. For comparison, membership totals in past years were as follows: 2010 – 1,203; 2009 – 1,208; 2008 – 1,202.

Membership revenue to date has exceeded the total 2010 amount only because of this year's ~\$23 increase in dues (the exact amount of the increase is dependent on variable provincial taxes). This was necessary because a new publisher is now charging the CGS \$25 per member for continued access to the Canadian Geotechnical Journal. The increased dues revenue is thus a "pass through" leaving our financial position unimproved.

Sales of the Canadian Foundation Engineering Manual provide the vast majority of our publication income. The CFEM continues to sell albeit at a gradually reducing rate as the market for this edition saturates. 128 manuals have been sold to date this year.

The CGS has underwritten two conferences this year: GeoHazards 2011 which took place in Kelowna in May and the joint CGS/ISSMGE PanAm 2011 event that is our societies' annual meeting. The Kelowna event was very successful and attracted ~175 registrants who generated about \$17 k in profit. By convention, this profit is equally split between the local CGS section and the national body.

Any profit from PanAm 2011 will be nominal and much less than recent past annual conferences. This is due to significantly increased costs associated with hosting the ISSMGE. This was not anticipated when the 2011 budget, which called for conference profits of \$27.5 k, was formulated.

Miscellaneous income in the above table derives primarily from investment dividends and corporate sponsors. To date in 2011, the CGS has been supported by the following national sponsors.

- GeoSlope
- Golder Associates
- InSitu Contractors
- J.D. Mollard and Associates
- Klohn Crippen Berger
- Knight Piesold Consultants Limited
- Reinforced Earth Company Limited
- Thurber Engineering Limited

Based on declining membership and increasing costs, the 2011 budget planned for a deficit of \$36.2 k. However, projections to year end predict a smaller loss of \$13 k.

### **Proposed Budget for 2012**

Based on 2010 data, the cost to service each individual CGS member was \$277. Using projections for the current year, the analogous figure in 2011 will be \$292. Regular annual membership is priced at \$190. Notwithstanding that we subsidize our operations from conference profits and CFEM sales, for dues to remain at the current amount, the number of CGS members will have to be increased. Unfortunately, membership numbers for next year are projected to remain at or below current levels.

Membership dues were increased by 15% in 2011 (which again passed through our books and did not improve CGS finances). Raising revenues by instituting a second consecutive dues increase, particularly in light of unsettled economic conditions, is not considered propitious.

Thus the budget proposed for 2012 projects a loss of \$35 k. While undesirable, this remains a relatively small fraction of our revenues at about 10%. Initiatives to increase membership will be undertaken but may take some time to bear fruit. For the moment, however, the current executive recommends funding what is hoped will be temporary shortfalls from accumulated assets. In effect, by holding dues at current levels, members will receive a deferred dividend from surpluses earned in prior years. This is possible because the overall financial position of the society is strong. At the same time, our financial outlook will remain under close scrutiny and every effort will be made to hold expenses in check. However, it is likely that sooner rather than later, an increase in dues may become necessary.

	Revenue (x \$1,000)			
	2010 Actuals	2011		Proposed 2012 Budget
		Ratified Budget	Projected to year end	
Membership Dues	225.1	238.1	245.0	250.0
Publications	48.9	35.0	35.0	30.0
Conferences	45.8	27.5	13.0	22.0
Miscellaneous	13.4	14.0	12.0	8.0
<b>SUBTOTALS</b>	<b>333.2</b>	<b>314.6</b>	<b>305.0</b>	<b>310.0</b>

	Expenses (x \$1,000)			
	2010 Actuals	2011		Proposed 2012 Budget
		Ratified Budget	Projected to year end	
Intl. Memberships	33.1	37.5	33.0	30.0
Conference Expenses	11.6	13.0	13.0	13.0
Publication Costs	77.3	120.3	110.0	110.0
Staff fees and wages	124.8	117.0	130.0	140.0
Society Operations	72.9	54.0	45.0	50.0
Miscellaneous	0	9.0	2.0	2.0
<b>SUBTOTALS</b>	<b>319.7</b>	<b>350.8</b>	<b>333.0</b>	<b>345.0</b>

<b>PROFIT/LOSS</b>	<b>13.5</b>	<b>-36.2</b>	<b>-28.0</b>	<b>-35.0</b>
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### Current Assets

The current assets of the CGS as of 31 August 2011 total \$837,414.83. Note that this 2011 data has not yet been audited. This compares to \$818,927.60 from one year prior. \$13.5 k of the increase is attributed to profit from 2010 operations. The remaining \$5 k stems from year over year variations in cash flow.

The bulk of CGS's current assets are distributed as follows.

- \$261.5 k is available as ready cash in our chequing and savings accounts.
- \$42.9 k is cash held on behalf of the Cold Regions Division, the Engineering Geology Division and the Education Committee of the CGS.
- \$272.0 k is invested in GIC's and bonds.
- \$225 k is on loan to the Canadian Foundation for Geotechnique.
- \$36 k has been disbursed as seed money to various conference organizing committees.

### French Edition of the CFEM

Production of a French version of the Canadian Foundation Engineering Manual is underway. Layout, copy editing and printing is projected to cost approximately \$65 k (~ \$20 k this year and ~ \$45 k in 2012). It is expected that all of these costs will be recovered. Thus the current executive is proposing that the investment in the French manual be treated as a special project extra to the normal annual operating budgets presented in the above tables (for both 2011 and 2012).

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**Vice-président, finances – Peter Gaffran**  
**Rapport d'activités - Du 1<sup>er</sup> juillet 2010 au 30 juin 2011**

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### **Généralités**

Ce rapport présente : le bilan financier de la SCG pour l'exercice 2010; le rendement financier à ce jour pour le budget de l'exercice 2011; le budget proposé pour l'exercice 2012; l'actif et le passif de la SCG à l'heure actuelle; et un résumé des coûts associés à la production de l'édition française du *Manuel canadien d'ingénierie des fondations*.

### **Bilan financier de 2010**

Les états financiers 2010 vérifiés par une firme indépendante sont affichés sur le site Web de la SCG au même endroit que le présent rapport. La vérification a été effectuée par la firme Johnsen Archer Chartered Accountants LLP de Vancouver. Consultez le tableau intitulé « Statement of Operations Year Ended December 31, 2010 » [État des résultats d'exploitation se terminant le 31 décembre 2010] et les tableaux complémentaires numérotés de 1 à 5. Ces tableaux résument la totalité des revenus et des dépenses encourus par la Société au cours du présent exercice financier ainsi que de l'exercice précédent (celui de 2009).

Les principales sources de revenus de la SCG sont les cotisations des membres, les revenus de publication (principalement du *Manuel canadien de l'ingénierie des fondations* ou MCIF) et les profits des conférences (principalement la conférence annuelle). En 2010, le total des revenus s'élevait à 333 200 \$, soit 16 900 \$ de moins qu'en 2009. Si l'on compare l'exercice 2010 à celui de 2009, voici ce qui ressort :

- les cotisations des membres ont baissé de 17 300 \$;
- les revenus de publication ont baissé de 20 800 \$, dont la raison principale est un ralentissement des ventes du MCIF;
- le total des recettes des conférences a augmenté de 23 000 \$.

Les coûts de financement des activités d'exploitation de la SCG durant l'exercice 2010 ont totalisé 319 700 \$; ils sont répartis selon les cinq grandes catégories de dépenses énumérées ci-après.

- Les adhésions internationales ont coûté 33 100 \$, soit 2 300 \$ de moins qu'en 2009.
- Les dépenses de la SCG associées aux conférences ont totalisé 11 600 \$, soit 1 000 de moins qu'en 2009.
- Les coûts de publication (la revue *Geotechnical News*, la *Revue canadienne de géotechnique* et le *Manuel canadien d'ingénierie des fondations*) se sont élevés à 77 300 \$ en 2010, soit 12 800 \$ de moins qu'en 2009.
- Les honoraires et la rémunération du personnel de la SCG (secrétaire général et administrateur) ont totalisé 124 800 \$. Cela représente 10 700 \$ de plus qu'en 2009, principalement à cause de la refonte du site Web de la SCG.
- Les dépenses d'exploitation de la Société ont totalisé 72 900 \$, soit 27 400 \$ de plus qu'en 2009.

Le total des dépenses de 2010 a dépassé celui de 2009 de 22 100 \$. La hausse de dépense la plus importante, pour 2010, découle de la refonte du site Web de la SCG. Les coûts associés au site Web ont totalisé 39 400 \$, soit 25 500 \$ de plus que lors de l'exercice précédent. Si l'on exclut les coûts associés au site Web, les dépenses de la SCG pour l'exercice 2010 sont alors inférieures de 3 400 \$ par rapport à celles de 2009.

Le budget présenté et ratifié à la conférence annuelle d'Halifax de 2009 prévoyait une perte de 40 900 \$ pour 2010. Cette prédiction était exagérément pessimiste, car les activités d'exploitation ont généré un excédent de 13 500 \$. Voici les profits des exercices précédents : 52 500 \$ en 2009; 73 400 \$ en 2008; 206 600 \$ en 2007. (Le profit considérable de 2007 provenait principalement de ventes initiales élevées de la 4<sup>e</sup> édition du MCIF (version anglaise) et des revenus exceptionnels de deux conférences très réussies).

### **Mise à jour financière pour 2011**

Le budget de la SCG pour 2011 qui a été ratifié par les membres lors de la conférence annuelle de 2010 à Calgary est résumé dans les deux tableaux ci-dessous. Les revenus et les dépenses au 31 août du

présent exercice sont également indiqués, avec les projections pour la fin de l'exercice. Les données réelles de l'exercice 2010 sont fournies à titre comparatif.

	Revenus (en milliers de \$)				
	Réels 2010	Budget ratifié	2011		Projections – Fin de l'exercice
			Au 31 août		
		\$	% de 2010		
Cotisations des membres	225,1	238,1	240,6	107	245,0
Publications	48,9	35,0	26,9	55	35,0
Conférences	45,8	27,5	0,2	0	28,0
Divers	13,4	14,0	9,4	70	12,0
<b>SOUS-TOTAUX</b>	<b>333,2</b>	<b>314,6</b>	<b>277,1</b>	<b>82</b>	<b>320,0</b>

	Dépenses (en milliers de \$)				
	Réelles 2010	Budget ratifié	2011		Projections – Fin de l'exercice
			Au 31 août		
		\$	% de 2010		
Adhésions internationales	33,1	37,5	14,2	43	33,0
Dépenses associées à la conférence	11,6	13,0	0,0	0	13,0
Coûts de publication	77,3	120,3	86,8	112	110,0
Honoraires et rémunération du personnel	124,8	117,0	69,5	56	130,0
Activités d'exploitation de la Société	72,9	54,0	16,3	22	45,0
Divers	0	9,0	0,0	0	2,0
<b>SOUS-TOTAUX</b>	<b>319,7</b>	<b>350,8</b>	<b>186,8</b>	<b>58</b>	<b>333,0</b>
<b>PROFITS/PERTES</b>	<b>13,5</b>	<b>-36,2</b>	<b>87,0</b>	<b>-</b>	<b>-13,0</b>

À la fin d'août, le total des adhésions s'élevait à 1 139, soit 31 de moins à la même date l'année dernière et 64 de moins que la compilation définitive pour 2010. Dans le passé, une hausse en flèche des adhésions se produisait au milieu de l'année, parce que cela permettait à ces membres d'obtenir un tarif réduit pour leur inscription à la conférence annuelle. Comme la conférence de cette année est organisée conjointement avec la SIMSG, il n'est pas possible d'offrir aux membres de la SCG un tarif d'inscription réduit. Par conséquent, on ne prévoit pas que le total des adhésions augmentera considérablement pendant le reste de l'année. À titre comparatif, voici le total des adhésions des années précédentes : 1 203 en 2010; 1 208 en 2009; 1 202 en 2008.

Les revenus générés par les adhésions à ce jour ne dépassent le total de 2010 qu'en raison de la hausse approximative de 23 \$ des cotisations (le montant exact de cette hausse dépend de taxes variant selon la province). Cette hausse était nécessaire parce que la nouvelle maison d'édition de la *Revue canadienne de géotechnique* facture désormais 25 \$ par membre à la SCG pour assurer l'accès continu à la revue. Ces cotisations accrues ne constituent donc que des « fonds en transit » qui n'améliorent pas notre situation financière.



Les ventes du *Manuel canadien d'ingénierie des fondations* (édition anglaise) fournissent la grande majorité de nos revenus de publication. Le MCIF continue de se vendre mais à une fréquence qui diminue graduellement car le marché de cette édition est en voie de se saturer. Pour la présente année à ce jour, 128 manuels ont été vendus.

Cette année, la SCG a soutenu deux conférences, Géorisques V qui a eu lieu à Kelowna en mai 2011 et l'événement conjoint de la SCG et de la SIMSG, la Conférence géotechnique panaméricaine de 2011, qui correspond à l'assemblée générale annuelle de nos sociétés. L'événement de Kelowna a connu un vif succès et a attiré ~175 délégués inscrits qui ont généré un profit de 17 000 \$. Selon l'usage, ce profit est réparti équitablement entre la section locale de la SCG et la Société nationale.

Le profit de la Conférence géotechnique panaméricaine de 2011 sera insignifiant et beaucoup moins élevé que celui de nos dernières conférences annuelles récentes. Cela est attribuable aux coûts considérablement accrus associés à l'organisation de la SIMSG. Cette situation n'avait pas été anticipée lors de l'établissement du budget 2011, qui prévoyait des profits de 27 500 \$.

Les revenus divers du tableau précédent dérivent principalement de dividendes d'investissements et de sociétés commanditaires. À ce jour en 2011, la SCG a bénéficié du soutien des commanditaires nationaux suivants :

- GeoSlope;
- Golder Associates;
- InSitu Contractors;
- J.D. Mollard and Associates;
- Klohn Crippen Berger;
- Knight Piesold Consultants Limited;
- Reinforced Earth Company Limited;
- Thurber Engineering Limited.

En raison des adhésions à la baisse et des coûts à la hausse, le budget de 2011 prévoyait un déficit de 36 200 \$. Toutefois, les projections pour la fin de l'exercice prévoient une perte inférieure de 13 000 \$.

### **Budget proposé pour 2012**

Selon les données de 2010, le coût des services pour chaque membre individuel de la SG était de 277 \$. À l'aide des projections de l'année en cours, le montant analogue pour 2011 sera de 292 \$. Le prix d'une adhésion annuelle ordinaire est de 190 \$. Malgré le fait que nous subventionnons nos activités d'exploitation avec les profits des conférences et les ventes du MCIF, il faudra augmenter le bassin de membres de la SCF pour que la cotisation demeure au montant actuel. Malheureusement, le nombre d'adhésions prévues pour l'an prochain devrait demeurer aux niveaux actuels ou leur être inférieur.

Les cotisations des membres ont augmenté de 15 % en 2011 (rappelons que ces fonds n'ont fait que transiter dans nos livres et n'ont pas amélioré les finances de la SCG). On ne considère pas qu'il soit propice d'augmenter les revenus en procédant à une deuxième augmentation consécutive des cotisations, particulièrement à la lumière des conditions économiques fluctuantes.

Par conséquent, le budget proposé pour 2012 prévoit une perte de 35 000 \$. Même si c'est peu souhaitable, cela demeure une proportion relativement petite de nos revenus, représentant environ 10 %. Des initiatives visant l'augmentation des adhésions seront entreprises, mais il faudra du temps avant qu'elles ne soient fructueuses. Pour le moment, toutefois, le Comité exécutif actuel recommande de financer ce que nous espérons être des difficultés temporaires en puisant dans les éléments d'actif accumulés. En effet, en maintenant les cotisations aux niveaux actuels, les membres recevront un dividende différé provenant des excédents réalisés lors des exercices précédents. Cela est possible parce que la situation financière globale de la Société est solide. Parallèlement, notre horizon financier demeurera l'objet d'un examen attentif et nous nous efforcerons de notre mieux pour mettre un frein aux dépenses. Toutefois, il est probable que, tôt ou tard, une augmentation des cotisations s'avèrera nécessaire.

	Revenus (en milliers de \$)			
	Réels 2010	2011		Budget proposé 2012
		Budget ratifié	Projections – Fin de l'exercice	
Cotisations des membres	225,1	238,1	245,0	250,0
Publications	48,9	35,0	35,0	30,0
Conférences	45,8	27,5	13,0	22,0
Divers	13,4	14,0	12,0	8,0
<b>SOUS-TOTAUX</b>	<b>333,2</b>	<b>314,6</b>	<b>305,0</b>	<b>310,0</b>

	Dépenses (en milliers de \$)			
	Réelles 2010	2011		Budget proposé 2012
		Budget ratifié	Projections – Fin de l'exercice	
Adhésions internationales	33,1	37,5	33,0	30,0
Dépenses associées à la conférence	11,6	13,0	13,0	13,0
Coûts de publication	77,3	120,3	110,0	110,0
Honoraires et rémunération du personnel	124,8	117,0	130,0	140,0
Activités d'exploitation de la Société	72,9	54,0	45,0	50,0
Divers	0	9,0	2,0	2,0
<b>SOUS-TOTAUX</b>	<b>319,7</b>	<b>350,8</b>	<b>333,0</b>	<b>345,0</b>

<b>PROFITS/PERTES</b>	<b>13,5</b>	<b>-36,2</b>	<b>-28,0</b>	<b>-35,0</b>
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### Actif actuels

L'actif actuel de la SCG au 31 août 2011 totalise 837 414,83 \$. Veuillez noter que ces données de l'exercice financier de 2011 n'ont pas encore été vérifiées. L'actif actuel est comparable à l'actif de l'exercice précédent, qui s'élevait à 818 927,60 \$. La hausse s'explique comme suit : une somme de 13 500 \$ est attribuable au profit réalisé lors des activités d'exploitation, alors que la somme restante de 5 000 \$ découle de variations d'encaisse d'un exercice à l'autre.

L'ensemble de l'actif actuel de la SCG se répartit comme suit :

- 261 500 \$ en liquidités dans nos comptes de chèque et d'épargne;
- 42 900 \$ en liquidités conservées au nom de la Division de la géotechnique des régions froides, de la Division de la géologie de l'ingénieur et du Comité sur l'éducation de la SCG;
- 272 000 \$ sont investis en certificats de placement garanti (CPG) et en obligations;
- 225 000 \$ sont prêtés à la Fondation canadienne de géotechnique;
- 36 000 \$ ont été déboursés en tant que fonds de démarrage à divers comités organisateurs de conférences.

## **Édition française du MCIF**

La réalisation d'une version française du MCIF est en cours. La mise en page, la révision et l'impression devraient coûter environ 65 000 \$ (~ 20 000 \$ cette année et ~ 45 000 \$ en 2012). Nous nous attendons à recouvrer tous ces coûts. Par conséquent, le Comité exécutif actuel propose que l'investissement dans la version française du manuel soit traité en tant que projet spécial en sus des budgets d'exploitation annuels normaux qui ont été présentés dans les tableaux ci-dessus (tant pour 2011 que 2012).

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## ***Vice President Communications – Jean-Marie Konrad Report of Activities - July 1, 2010 to June 30, 2011***

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### **Introduction**

This report is a summary of the activities related to communication with CGS members. It covers the CGS website, E-News electronic magazine and promotional material.

***July 1<sup>st</sup> to December 31<sup>th</sup>, 2010 by Stéphanie Perret***

### **CGS Website**

The new website of the CGS has been launched at the beginning of 2011 after a work of six months done by GGMA and the sub-committee created to review the content and form of the site.

### **Online registration**

The 2011 online registration was also available on the new website in January 2011.

### **CGS E-News**

An E-News issue has been published in December. That gave a total of four E-News publications to our members in 2010 (January, March, July and December).

### **Promotional Material**

A second historical poster presenting the work of three well-known geotechnicians was shown at the Calgary conference.

Also, a brochure presenting the mission of CGS has been presented at the Calgary conference. It has been prepared in French and in English. Information about the Society such as the objectives, the sections and technical divisions, and the CGS contacts are given in this document.

***January 1<sup>st</sup> to June 30, 2011 by Jean-Marie Konrad***

### ***Files transferred from the past VP Communications***

*Early in January, information was collected from past VP Communications Stéphanie Perret. During a telephone conversation with Stéphanie, the main projects in progress were discussed.*

### **Website and website management**

Since the website and member database hosting was moved to GGAM/Pro.NET in August 2009, much work has been done in 2010 to redesign the Society web site in order to update it with new features and to make it more user-friendly to input and edit sections such as the Calendar of Events and e-News.

Gibson Group Association Management (GGAM) is actively managing the website with input from the Executive Committee. Changes to the on line registration have been put in place – the billing process now calculates GST/HST separately (based on one's province) and then adds it to the member fees to obtain a total. The GST/HST is also now shown separately on the receipt. The renewal process was also adjusted to permit members to renew before the end of the calendar year – in the past one could not renew until January 1<sup>st</sup>. Renewals for 2012 will open this year by December 1, 2011, or before.

Improvements and new ways to communicate information to members are being actively considered, such as adding more links to other related websites, creating a CGS page on Facebook, and using Twitter to reach CGS members.

### **French website**

Most of the “public” website is now available in French and will continue to be available as new items are added. For the moment, the secure member section is available in English only. The translation of this part of the Society website is the key project to be undertaken in the 2<sup>nd</sup> half of 2011.

### **CGS E-News**

Three CGS E-News mailings per year are planned to be sent to CGS members (February, June and October). So far, two have been produced since January (February and June). There is less activity related to the Society during summer, but some information and reminders need still to be sent to members. A shorter version of the E-News – an E-News Express – has been prepared for early September. The next regular CGS E-News will be prepared after the annual conference of October. The new format of the CGS E-News offers a very modern look with a dynamic interface with the CGS website.

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## **Vice-président aux communications – Jean-Marie Konrad** **Rapport d'activités – 1<sup>er</sup> juillet 2010 au 30 juin 2011**

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### **Introduction**

Le présent rapport est un résumé des activités liées aux communications avec les membres de la SCG. Il traite du site Web de la Société, du bulletin électronique – Cyberbulletin et du matériel promotionnel.

**1<sup>er</sup> juillet au 31 décembre 2010 par Stéphanie Perret**

### **Site Web de la SCG**

Le nouveau site Web de la SCG a été lancé au début 2011 après six mois de travail par Gibson Group Association Management (GGAM) et le sous-comité créé afin de superviser le contenu et la mise en forme du site Web.

### **Inscriptions en ligne**

Le processus d'adhésion en ligne sur le nouveau site Web a été mis en fonction en janvier 2011.

### **Cyberbulletin SCG**

Un Cyberbulletin a été produit en décembre, ce qui porte à quatre le nombre de Cyberbulletin produit au cours de l'année 2010 (janvier, mars, juillet et décembre).

### **Matériel promotionnel**

Une seconde affiche historique montrant les travaux de trois géotechniciens célèbres a été présentée à la conférence de Calgary.

De plus, une brochure présentant la mission de la SCG a été préparée pour la conférence de Calgary. Elle est disponible en français et en anglais. Des informations relatives à la Société telles que ses objectifs, ses divisions techniques et les contacts à la SCG y sont données.

**1<sup>er</sup> janvier au 30 juin 2011 par Jean-Marie Konrad**

### **Échange des dossiers avec la VP aux communications sortante**

Au début du mois de janvier, les informations ont été recueillies auprès de Stéphanie Perret, Vice-présidente sortante. Lors d'une conversation téléphonique, les principaux projets courants ont été discutés.

### **Site Web et gestion du site Web**

Puisque l'hébergement du site Web et de la banque de données des membres a été transféré à GGAM/Pro.NET en août 2009, beaucoup de travail a été fait au cours de l'année 2010 afin de revoir le site Web et d'y ajouter de nouvelles fonctionnalités tout en rendant plus conviviales la mise à jour et l'édition de sections telles que le Calendrier des événements et le bulletin électronique.

Gibson Group Association Management (GGAM) travaille activement à la gestion du site Web de la Société et ce, en collaboration avec les membres du comité exécutif. Des modifications ont été apportées au niveau du renouvellement des inscriptions en ligne - le système de facturation calcul maintenant séparément la TPS/TVH (en fonction de la province de résidence du membre) et ajoute ce montant aux frais d'inscription du membre de façon à voir le total à payer. La TPS/TVH apparaît également de façon distincte sur le reçu. Le système de renouvellement des inscriptions a aussi été modifié afin de permettre aux membres de renouveler leur inscription avant la fin de l'année – par le passé, il n'était pas possible de renouveler l'inscription avant le 1<sup>er</sup> janvier. Le renouvellement des inscriptions pour l'année 2012 sera disponible à partir du 1<sup>er</sup> décembre de cette année ou possiblement plus tôt.

Des améliorations et de nouveaux moyens de communiquer l'information aux membres sont présentement à l'étude, tels que d'ajouter d'autres liens vers des sites d'intérêt, de créer une page SCG sur Facebook ou d'utiliser Twitter pour rejoindre les membres de la Société.

### **Version française du site Web**

La quasi-totalité de la section «publique» du site Web est disponible en français et continuera d'évoluer ainsi au fur et à mesure que des éléments y seront ajoutés. Pour le moment, la section, protégée, réservée aux membres est disponible seulement en anglais. La traduction de cette section du site Web de la Société est une activité prioritaire qui sera entreprise dans la seconde partie de l'année 2011.

### **Cyberbulletin SCG**

Il est prévu que trois Cyberbulletins SCG soient envoyés aux membres au cours de l'année. Jusqu'à maintenant, deux ont été produits depuis janvier (février et juin). Il y a moins d'activités reliées à la Société durant l'été, mais des informations et des rappels doivent malgré tout être acheminés aux membres. Une version raccourcie du Cyberbulletin – Cyberbulletin Express – a été préparée pour le début septembre. Le prochain Cyberbulletin SCG régulier sera préparé après la conférence annuelle d'octobre. Le nouveau format du Cyberbulletin propose une apparence moderne avec un lien actif vers le site Web de la SCG.

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**Technical Divisions - Chris Hawkes, Technical Divisions Representative**  
**Report of Activities – July 1, 2010 to June 30, 2011**

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**Introduction**

Each of the seven (7) Technical Divisions in the Canadian Geotechnical Society (CGS) has a mandate to promote and facilitate the advancement, exchange and transfer of knowledge, skills and experience in the relevant field of engineering for the benefit of division members and the profession.

As part of the Canadian Geotechnical Society, the general objectives of each Division are:

- To provide members opportunities to upgrade and update their professional-knowledge and skills,
- To present results of their professional activities, by organizing events and activities to facilitate knowledge, experience and information transfer and exchange,
- To promote co-operation among researchers and practitioners.

**Executive Committees**

The Technical Divisions are relatively autonomous bodies within the structure of the CGS and their activities are controlled by an Executive Committee. The Division Chairs carry 3-year terms ending December 31<sup>st</sup> as shown below.

Cold Regions Geotechnology Lukas Arenson, P.Eng. <a href="mailto:larenson@bgcengineering.ca">larenson@bgcengineering.ca</a>	2013	Hydrogeology Christopher Neville, P.Eng. <a href="mailto:cneville@sspa.com">cneville@sspa.com</a>	2013
Engineering Geology Davide Elmo, PhD <a href="mailto:Davide_Elmo@golder.com">Davide_Elmo@golder.com</a>	2012	Rock Mechanics Chris Hawkes, P.Geo. <a href="mailto:chris.hawkes@usask.ca">chris.hawkes@usask.ca</a>	2011
Geoenvironmental Cynthia Coles*, P.Eng. <a href="mailto:ccoles@mun.ca">ccoles@mun.ca</a>	2013	Soil Mechanics and Foundations Bipul Hawlader, P.Eng. <a href="mailto:bipul@mun.ca">bipul@mun.ca</a>	2013
Geosynthetics Kerry Rowe, P.Eng. <a href="mailto:kerry@civil.queensu.ca">kerry@civil.queensu.ca</a>	2013		

Of the seven Divisions, the chairs for five Divisions are new in 2011. In the case of the Soil Mechanics and Foundations Division, Dr. Sharma needed to step down a year early and the position of Chair was taken on by the Division's Vice-Chair Bipul Hawlader. A new Division Vice-Chair will be named. Upon submission of her division's half-year report, Cynthia Coles announced her resignation as Chair of the Geoenvironmental Engineering Division Committee. A new Chair will be appointed.

The 3-year terms of the Chairs of the Rock Mechanics and Engineering Geology\* Divisions will end in 2011 and 2012, respectively. These two Divisions have appointed Vice-chairs on their respective Executive Committees, who will take over from the outgoing chairs when their terms end.

**Affiliations with Other Organizations**

Each Division of the CGS is affiliated with an International counterpart, as detailed below:

Cold Regions Geotechnology	International Permafrost Association (IPA)
Engineering Geology	International Association of Engineering Geology (IAEG)
Geoenvironmental	International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE)
Geosynthetics	North American Geosynthetics Society (NAGS)
Hydrogeology	International Association of Hydrogeologists (IAH-CNC)
Rock Mechanics	International Society of Rock Mechanics (ISRM)
Soil Mechanics and Foundations	International Society of Soil Mech. and Geotechnical Engineering (ISSMGE)

In addition, many of the Divisions are also affiliated with other National and International technical bodies with whom there are various interactions during the course of the year.

### Membership Information

CGS members, at the time of completing their membership form, are given the opportunity to choose different Divisions as their first and second choices. Although the Division Chairs can readily obtain membership statistics for their respective Divisions, not all Division Chairs have provided this information in their annual reports. Following are membership statistics (first-choice membership only) for the divisions; figures which have been added or amended by the CGS administration are denoted with an asterisk (\*):

Cold Regions Geotechnology	61
Engineering Geology	129*
Geoenvironmental	119*
Geosynthetics	62*
Hydrogeology	67*
Rock Mechanics	77
Soil Mechanics and Foundations	688*

Though these figures indicate that each of the seven Divisions has a substantial membership base, only a few members are actively engaged in carrying out the Divisions' work and the attendance at the General Meetings of the Divisions is generally poor. It is suggested that these meetings should be more prominently promoted, and that snacks should be provided to encourage attendance; these meetings are held at the end of the day, for the most part, and people are starting to get hungry by that time.

### List of Activities

The Chairs of the Divisions have submitted reports on the activities of their respective Divisions for consideration and discussion at the October CGS Board Meeting. The Cold Regions Geotechnology, Engineering Geology, Rock Mechanics, Geosynthetics, Hydrogeology, and Soil Mechanics & Foundations Divisions submitted year-end reports. Half-year a report was received in March, 2011 from the Geoenvironmental Division. The most recent reports received from the Divisions should be consulted for their detailed activities. A short summary of the Division activities is provided below:

Cold Regions Geotechnology: Organized the 2010 Canadian Permafrost Conference, held in conjunction with the national conference in Calgary; this conference was generally well received. International Short Course on Permafrost Engineering: Effective Design and Construction in Permafrost Regions, supported by the Division in the past, will no longer be offered due to retirement of instructor (Dr. Sege, U. Alberta); the Division is looking into alternatives. IPA newsletter has switched to electronic distribution; financial support is no longer needed. Due to changes approved by the IPA in 2010, Division members will no longer be automatically registered with the IPA; they will have to join as individual members, which is free (with recommended voluntary contribution). The CRGD will support the Dave C Sege Symposium to be held in Edmonton April 26/27, 2012 with \$2000.00. The CRGD Executive Committee has decided that the Roger J.E. Brown award will be awarded biennially, with the next one being awarded in 2012.

Engineering Geology: The Thomas Roy Award for 2010 was presented to Réjean Couture, NRC, but no nomination was received for 2011. The EGD recommends that future calls for nominations should emphasize the fact that the Award is not given only based on a landmark publication, but could also be given to a practitioner who strongly promotes Engineering Geology. Topics discussed at September 2010 AGM included statements of support for: (i) the Slope Stability Conference to be held September 2011 in Vancouver, (ii) the Kelowna conference being planned for May 2011 by Dwayne Tannant et al.; and (iii) the International Fault Slip Control Research Program being launched by CEMI in Sudbury.

Geoenvironmental: During September 2010 AGM in Calgary, the need for new members for the Division executive was raised and two new members were added. Past-Chair and Chair are the theme chair coordinators for the geoenvironmental papers for the Pan Am Conference in Toronto in October, 2011; executive member (B. Bussière) is the theme coordinator for mining waste. Past-Chair was on technical

committee for the 2nd International Conference on Waste Engineering and Management (ICWEM 2010) Shanghai, China, October 2010. Past-Chair will co-chair the fifth ASTM International Symposium on Contaminated Sediments, Montreal 2012. Chair and Past-Chair will be technical representatives for the CGS for the Engineering Institute of Canada (EIC) Climate Change Conference in 2013 in Montreal. Past-Chair will be technical chair for CGS annual conference in Montreal in 2013. Geo-Environmental Engineering 2011 will take place May 2011, Kagawa, Japan.

**Geosynthetics:** The Secretary of the Division resigned to become Vice-President of the North American Geosynthetics Society (NAGS); Craig Lake has been appointed to fill this vacancy. The Chair is seeking a candidate to fill the Vice Chair's position. Members of the division were involved with the first meeting of the IGS Barriers Committee in Dallas in March, 2011. The division will be actively involved with this committee. The Chair will be presenting a short course on Geosynthetics at the Pan-AM conference in Toronto in October, 2011. The Division is proposing to organize a workshop on specification of geosynthetics for the 2013 CGS/IAH/NAGS conference in Montreal.

**Hydrogeology:** The joint CGS/IAH CNC format, lacking in Calgary 2011, will be revived for the 2013 Montréal conference. The winner of the Farvolden Award for 2010, Robert van Everdingen, was first announced at the GeoCanada2010 meeting in Calgary by the President of the IAH-CNC. The Farvolden Award was presented subsequently during the annual CGS meeting in Calgary in September. Renewal of the Farvolden Award Committee is complete; nominations are expected by the end of March 2011. The Division is supporting a second Aquitard Hydrogeology Symposium to be held June 2011 at the University of Ottawa; Past-Chair is lead organizer for this symposium. Division has worked in collaboration with the CNC/IAH to organize a monthly series of seminars over the past four years on hydrogeological practice in southern Ontario. List of speakers for 2010/11 included in Division report.

**Rock Mechanics:** Based on success of RockEng09 in Toronto, the Division (via CARMA) will continue to hold a Rock Mechanics Symposium every three years in conjunction with the CIM Annual Meeting. As such, the 21st Canadian Rock Mechanics Symposium (titled RockEng12) will be held in Edmonton in May, 2012. RMD Chair will serve as technical committee chair. In 2010 the Division (via CARMA) supported a successful bid by McGill and Queen's Universities to jointly host the 13th ISRM Congress in Montreal in 2015. Highlights of September 2010 AGM include: (i) Compilation of ideas for potential use of CARMA funds; and (ii) a suggestion to re-consider the selection criteria for the John Franklin Award, given the fact that the current criteria seem to favour academics over industry professionals. Initiatives planned for the coming year include: (i) a digital library of early copies of Canadian Rock Mechanics Symposium proceedings, which would be made available to RMD members by logging on to the CGS or CARMA website; and (ii) awards that would reimburse travel/accommodation/registration costs for selected students attending conferences organized by the CGS and/or CARMA.

**Soil Mechanics and Foundations:** Issues discussed at AGM include: (i) publication of missing Canadian papers at the 17th ICSMGE, Alexandria, Egypt; (ii) need for improved Division webspace on CGS site and need for regular communication with the Division's members; and (iii) importance of Division playing a pivotal role in the review of papers and organization of sessions related to soil mechanics and foundation engineering at the national conference. Professor Adel Hanna of Concordia University was the recipient of the 2010 Meyerhof Award; results of the process for selecting the 2011 recipient were not available at the time of report submission. The Division is involved in organizing Pan-Am CGS Conference in Toronto (Oct. 2011). Following technical committee review, 850 abstracts were recommended for the next stage of full paper submission. As of May 31, 520 full papers had been submitted. SMFD Chair and several executive members are involved in the review of these papers.

### **Financial Status**

The Cold Regions Geotechnology and the Engineering Geology Divisions, respectively, have \$16,276 and "approximately" \$10,000 in their accounts. The other Divisions have no funds, have unknown financial status, or have funds that are pooled with (and jointly administered by) sister organizations (e.g., CARMA – CGS Rock Mechanics Division and CIM Rock Engineering Society).



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**Cold Regions Geotechnolgy Division - Lukas Arenson, Chair**  
**Report of Activities – July 1, 2010 to June 30, 2011**

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**Introduction**

The Cold Regions Geotechnolgy Division (CRGD) of the CGS continues to move forward with initiatives aimed at increasing the visibility of the division. It is our mandate to promote and facilitate the advancement, exchange and transfer of knowledge, skills and experience in the field of Cold Regions Geotechnolgy for the benefit of division members and the profession.

**Executive Committee**

The 2010-2011 Executive Committee of the Cold Regions Geotechnolgy Division consists of the following members:

Chair: Lukas Arenson – BGC Engineering Inc., Vancouver, BC  
Past-Chair: Ed Hoeve – EBA Engineering Consultants Ltd., Yellowknife, NT  
Members: Ryan Phillips – C-CORE, St. John's, NL  
Dave Sego – University of Alberta, Edmonton, AB  
Jean Côté – Laval University, Québec, QC  
Jack Seto - BGC Engineering Inc., Edmonton, AB

**Affiliations with Other Organizations**

The Division is affiliated with the International Permafrost Association (IPA) and maintains ties with the Technical Council on Cold Region Engineering (TCCRE), Frozen Ground sub-committee, of American Society of Civil Engineers (ASCE), and the Frost Geotechnics Technical Committee (TC216) of the International Society for Soil Mechanics and Foundation Engineering (ISSMGE). The Chair of CRGD is Vice-Chair of the IPA Permafrost Engineering Working Group (WG9). The Past-Chair of the CRGD is being appointed to the Canadian National Committee of the IPA (CNC-IPA).

**Membership Information**

The latest membership list includes 61 first choice members and 184 second choice members. Even though the first choice membership stayed constant during the last years, the second choice member numbers have been increasing continuously over the last years.

**List of Activities**

The CRGD, in association with the CNC-IPA and the Calgary Chapter, has organized a very successful Canadian Permafrost Conference in conjunction with the 2010 CGS Conference in Calgary. Jim Oswell presented the RM Hardy address. Approximately 30% of the contributions were on permafrost/cold region topics. The hosting of the 6<sup>th</sup> Canadian Permafrost during the CGS Conference was generally well received.

The International Short Course on Permafrost Engineering: Effective Design and Construction in Permafrost Regions, which had been supported by the CRGD in the past, will likely no longer be offered at the Department of Civil and Environmental Engineering at the University of Alberta due to Dr. Sego's retirement. The CRGD is looking into alternatives and supports future initiatives.

The IPA's newsletter "Frozen Ground" is now being distributed only electronically and therefore financial support to the distribution is no longer needed.

The CRGD will support the Dave C Sego Symposium to be held in Edmonton April 26/27, 2011 with \$2000.00.

**Financial Status**

The CRGD has \$16,276.43 on account as a line item with the CGS.

**Additional Information**

During the June 2010 Council Meeting of the IPA it was decided to introduce individual memberships to the Association. Registration as an individual member of the IPA is free, but a voluntary contribution/

donation to the IPA of 20 € for senior researchers and 10 € for PYRN members is recommended. This means that CRGD members are no longer automatically registered with the IPA, but should join the IPA as individual members.

The Executive Committee has decided that the Roger J.E. Brown award will be awarded biennially with the next one being awarded in 2012.

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## ***Engineering Geology Division - Davide Elmo, Chair Report of Activities – July 1, 2010 to June 30, 2011***

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### **Introduction**

This document summarizes the activities of the Engineering Geology Division (EGD) of the Canadian Geotechnical Society for the period from July 01, 2010 to June 30, 2011. The Engineering Geology Division's mission is to promote and facilitate the advancement, exchange and transfer of knowledge, skills and experience in the field of Engineering Geology for the benefit of division members and the profession. As part of the Canadian Geotechnical Society, the objectives of the Division are:

- To provide to its members opportunities to upgrade and update their professional-knowledge and skills;
- To present results of their professional activities, by organizing events and activities to facilitate knowledge, experience and information transfer and exchange; and
- To promote co-operation among researchers and practitioners.

### **Executive Committee**

The 2010-2011 Executive Committee of the EGD consists of the following members:

Chair:	Davide Elmo	delmo@golder.com
Vice-Chair:	Arash Estraghian	arash.eshraghian@amec.com
Past-Chair:	David Wood	

### **Affiliations with Other Organizations**

The EGD is closely affiliated with the International Association of Engineering Geology (IAEG). There are strong links with the Association of Environmental and Engineering Geologists (AEG) in the United States. Reportedly, there are also links with the Engineering Geology working group of the Geological Society of London.

### **Membership Information**

The EGD membership first choice membership is 129. The majority of members originate from nine Canadian Provinces, whilst the remaining members are from various countries, including USA, Switzerland, Ireland, Hong Kong, Singapore, South Lebanon, France, Netherlands, Norway and Japan.

### **List of Activities**

The following items were discussed at the Annual Meeting of the Engineering Geology Division (Calgary, 2010). It is noted that David Wood kindly acted as EGD chair at the 2010 Annual Meeting due to work commitments by the current EGD chair (Davide Elmo).

- Strong support was given to the proposed Slope Stability 2011 conference to be held September 18-21 in Vancouver and organized by Doug Stead and Eric Eberhardt. It is hoped that an Engineering Geology workshop can be held, in association with the Landslides Committee. Support was also given to the Kelowna conference being planned for May 2011, by Dwayne Tannant, et al.
- The International Fault Slip Control Research Program being launched by CEMI in Sudbury was discussed, and it was agreed that the Division should offer its support, although without financial commitment.

Activities for the period from 01 July 2010 to 01 June 2011 included:

- The Thomas Roy Award for 2010 was presented to Réjean Couture, NRC, for his involvement in the promotion of Engineering Geology in Canada.
- No nominations from the CGS membership at large for the 2011 Thomas Roy Award were submitted. Under these circumstances, in the past years the EGD chair would have searched for a nomination. However, since the EGD chair also acts as the Chair of the Award selection committee, it was felt this could have given rise to a conflict of interest. No Thomas Roy Award was awarded this year.
- It is anticipated that at the Conference in Toronto in October 2011, the question will be brought forward about finding a new EGC chair starting in 2012. Due to increased work and personal commitments, the current EGD chair recognizes that to date he has not always been able to really represent the EGD and support its objectives. However, everything will be done in order to guarantee a smooth transition.

### **Financial Status**

According to the 2009 report, the financial status of the EGD is excellent with identified funds in a CGS account, which came from the successful GeoHazards conference held in 2003. This was used to assist in the development of the Laval GeoHazards meeting. Funds held in CGS restricted account of approximately \$10k. The EGD chair aims at reviewing and updating the financial status during 2011.

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## **Geoenvironmental Engineering Division - Cynthia Coles, Chair**

### **Report of Activities – July 1, 2010 to March 31, 2011**

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### **Executive Committee**

The 2010-2011 Executive Committee of the Geoenvironmental Division consists of the following members:

Chair:	Cynthia Coles	Memorial University of Newfoundland
Vice-Chair:	<i>position vacant</i>	
Past-Chair:	Catherine Mulligan	Concordia University
Members:	Femi Baiyewun	Syncrude
	Rosa Galvez	Laval University
	Bruno Bussière	<i>University of Québec Abitibi-Temiscamingue (UQAT)</i>

### **Web site:**

The web site has been regularly updated for the GED.

### **GED Award**

The 2010 GED award was presented to E. Yanful at the Annual CGS conference in Sept. 2010.

### **Conferences:**

The GED Division met on the Tuesday evening of September 1, 2010 in Calgary during the annual CGS conference. The meeting was chaired by Catherine Mulligan. It was discussed that new members for the executive were needed. Femi Baiyewun of Syncrude and Bruno Bussière of the University of Québec Abitibi-Temiscamingue (UQAT) agreed to join. Nominations for representatives to the technical committee of the ISSMGE were solicited.

Catherine Mulligan with Cynthia Coles are the theme Chair coordinators for the geoenvironmental papers for the upcoming Pan Am Conference in Toronto from October 2-6, 2011. B. Bussière is the theme coordinator for mining waste. Abstracts from Canada within this theme have been reviewed.

The 2nd International Conference on Waste Engineering and Management (ICWEM 2010) Shanghai, China organized by the CSCE, the China Engineering Society (CCES), the Hong Kong Institution of Engineers (HKIE), and Tongji University, ICWEM 2010 was held in Shanghai, China, 13-15 October 2010. C. Mulligan was on the technical committee.

**Articles published:**

C.N. Mulligan, Potential impact of climate change on the GeoEnvironment, Article for Geo-Strata, Geo-Institute of the ASCE, September/October 2010 issue, pp. 28-34.

B. Bussiere. Effect of climate change on mine waste disposal in the arctic. Article for Geo-Strata, Geo-Institute of the ASCE, September/October 2010 issue, pp. 42-46.

**Future Conferences:**

The fifth ASTM International Symposium on Contaminated Sediments will be held in Montreal in 2012 and will be co-chaired by C. Mulligan. R. Galvez is on the international scientific committee.

C. Coles and C. Mulligan will be the technical representatives for the CGS for the Engineering Institute of Canada (EIC) Climate Change Conference in 2013 in Montreal at Concordia University. The first teleconference meeting was held March 2, 2011.

C. Mulligan will be the technical chair for the upcoming CGS annual conference in Montreal in 2013. Organizing meetings are underway for the local committee.

Geo-Environmental Engineering 2011 will take place from 21 - 22 May, 2011, at the Innovation Hall, Kagawa National College of Technology, Takamatsu, Kagawa, Japan. This International Symposium is the 10th anniversary of the Joint work between Japan, Korea, France and Canada.

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***Geosynthetics Division - Kerry Rowe, Chair***  
***Report of Activities – July 1, 2010 to June 30, 2011***

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**Introduction**

This report is a summary of the activities of the Geosynthetics Division, for the period from July 1, 2010 to June 30, 2011. The Division had very little activity during this period. As new Chair effective at the beginning of 2011, planning of the next year's activities are in the early stages although good progress has been made.

**Executive Committee**

The 2010-2011 Executive Committee of the Geosynthetics Division consists of the following members:

Chair: Kerry Rowe, Queen's University - kerry@civil.queensu.ca  
Vice-Chair: *position vacant*  
Secretary: Craig Lake, Dalhousie University - craig.lake@dal.ca  
Past-Chair: Andrew Lister, TenCate Geosynthetics - a.lister@tencate.com  
NAGS Liaison: Richard Brachman (VP of NAGS), Queen's University - brachman@civil.queensu.ca  
Member: Eric Blond, SAGEOS Montreal (liaison, 2013 Conference, Montreal) - eblond@gcttg.com

**Affiliations with Other Organizations**

The Geosynthetics Division is affiliated with the North American Geosynthetics Society (NAGS).

**Membership Information**

At the end of 2010, the Geosynthetics Division had 58 first choice members.

**List of Activities**

A meeting of the Division was scheduled for the CGS conference in Calgary but only the Secretary and two members attended. There was no agenda and there are no minutes.

There were no specific activities for the year to date other than having members of the division involved with the first meeting of the IGS Barriers Committee in Dallas in March. The division will be actively involved in the work of this committee.

Our first activity under the current Chair will be presenting a short course on Geosynthetics at the CGS Pan-Am Conference in Toronto in October 2011. The Division is proposing to organize a workshop on specification of geosynthetics for the 2013 CGS/IAH/NAGS conference in Montreal.

Other activities will be discussed at the Division meeting in Toronto in October.

### Financial Status

Neither credits nor expenses since last year.

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## **Hydrogeology Division - Christopher J. Neville, Chair**

### **Report of Activities July 1, 2010 to June 30, 2011**

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### Introduction

The Hydrogeology Division (HGD) of CGS has the mandate to promote and facilitate the advancement, exchange and transfer of knowledge, skills and experience in the field of hydrogeology for the benefit of CGS members and the geotechnical and geoenvironmental profession.

### Executive Committee

The 2011 Executive Committee of the HGD consists of the following members:

<b>CGS-HGD Executive Committee</b>			
Chair	Christopher J. Neville	S.S. Papadopoulos & Associates, Inc., Waterloo, Ontario	cneville@sspa.com
Vice-Chair	Tai T. Wong	O'Connor Associates, Calgary, Alberta	tai-wong@oconnor-associates.com
Past-Chair	Richard E. Jackson	Geofirma Engineering Ltd., Heidelberg, Ontario	RJackson@geofirma.com
IAH Liaison	Grant Ferguson	St. Francis Xavier University, Antigonish, Nova Scotia	gferguso@stfx.ca

### Affiliations with Other Organizations

The HGD is affiliated with the Canadian National Chapter of the International Association of Hydrogeologists (IAH-CNC). The HGD chair is a non-voting member of the IAH-CNC and, likewise, the chair of the IAH-CNC is a non-voting member of the HGD. The principal joint activity of the HGD and the IAH-CNC has been the organization of the *Joint CGS/IAH-CNC Groundwater Conference*, in conjunction with the Annual CGS Conference. The first of these conferences was held in Montreal in 2000 during the *53<sup>rd</sup> Canadian Geotechnical Conference* followed by joint meetings in Calgary, Niagara Falls, Winnipeg, Québec, Saskatoon, Vancouver, Ottawa, Edmonton and Halifax. A joint meeting was not held in Calgary in 2010, and will not be held in 2011 or 2012.

The chair of the HGD regards the *Joint CGS/IAH-CNC Groundwater Conference* as an important opportunity to build links between geoengineering and geoscientific disciplines. To this end, he has worked with the Local Organizing Committee for Montréal 2013 to ensure that Montréal includes a *Joint CGS/IAH-CNC Groundwater Conference*.

The other link with the IAH-CNC is the review and selection of the Farvolden Award winner. The CGS shares the award of the Robert N. Farvolden Award with the IAH-CNC. The Award was first presented in 2000 and renamed in 2002 after the late Professor Farvolden. The winner of the Farvolden Award for 2011 is Robert N. Betcher.

The IAH-CNC will be meeting at *geohydro2011*, a conference being held in Québec City between August 29 and September 1, 2011 where Mr. Betcher will be presented with the Farvolden Award.

### Membership Information

As of December 31, 2010, the membership of the HGD included approximately 66 members of the CGS who listed the HGD as their first choice.

### List of Activities

The HGD supported the *Second Aquitard Hydrogeology Symposium* that was held at the University of Ottawa in June 2011. The Ottawa Geotechnical Group and Prof John Cherry of the University of Guelph organized the symposium. The symposium was attended by over 100 specialists in the field of aquitard hydrogeology, and the two days of technical sessions were followed by six workshops.

Christopher Neville, HGD Chair, Richard Jackson, HGD past-chair, Tammy Middleton and Michael Howlett of the Region of Waterloo Water Services Division have continued to organize a highly successful monthly series of presentations on **groundwater research and practice** in Kitchener-Waterloo and Cambridge, Ontario. This collaboration between the HGD and the CNC/IAH is a model for other regions. These present a forum at which the dozen consulting companies in Kitchener-Waterloo, Cambridge, Guelph and London areas of southern Ontario can learn (a) advances in hydrogeological practice in North America, (b) engineering developments with a strong hydrogeological component, and (c) the latest hydrogeological research being conducted in southern Ontario. The speakers in the 2010-2011 series are listed on the following table.

Date	Speaker	Affiliation	Topic	Attendance
2010/10/05	Peter Duckworth	AMEC Earth & Environmental	The development of hydrogeology in Ontario – A personal perspective	35
2010/11/03	Marcelo Sousa	University of Waterloo	Management of well fields affected by non-point sources of contamination	35
2010/12/01	Neil Thomson	University of Waterloo	Is chemical oxidation the silver bullet for <i>in situ</i> remediation?	30
2011/01/11	Martin Shepley	AMEC Earth & Environmental	Source protection of the carboniferous limestone of England – And other challenges	30
2011/02/17	Andrea Marich and Elizabeth Priebe	Ontario Geological Survey	A sedimentological and hydrogeological investigation of the Dundas Buried Valley Aquifer	55
2011/04/07	Patryk Quinn	University of Guelph	The combined use of straddle packer testing and flexible liner profiling to hydraulically characterize rock boreholes for contaminant transport studies	17
2011/06/07	Richard Jackson	Geofirma Engineering Ltd.	The remediation of the Mission Valley Aquifer, San Diego, California	30

### Upcoming initiatives

Several initiatives are underway for the HGD.

1. A proposal to change the name of the Hydrogeology Division to the Groundwater Division.
2. An effort to recruit additional members for the executive of the Hydrogeology Division.
3. Continued support for *Joint CGS/IAH-CNC Groundwater Conference* to be held in conjunction with the Annual Canadian Geotechnical Conference.

4. Outreach efforts to attract members to the Hydrogeology Division through the promotion of presentations and short courses related to groundwater applications in geotechnique.
5. Ongoing participation in the organization of the Kitchener-Waterloo hydrogeology lecture series.
6. Support for the Third *Aquitard Hydrogeology Symposium* that will be held at the University of Guelph in 2013.

#### **Financial Status**

The CGS is not holding any funds for the HGD.

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### ***Rock Mechanics Division - Chris Hawkes, Chair Report of Activities – July 1, 2010 to June 30, 2011***

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#### **Introduction**

The Rock Mechanics Division (RMD) strives to develop, maintain and promote communications and cooperation between practitioners of rock mechanics and geotechnical rock engineering. It provides its members with opportunities to present the results of professional activities by organizing events and activities to facilitate knowledge, experience and information transfer and exchange. It also provides its members with opportunities to upgrade and update their professional knowledge and skills.

#### **Executive Committee**

The 2010-2011 Executive Committee of the Rock Mechanics Division consists of the following members:

Chair: Prof. Chris Hawkes, University of Saskatchewan (chris.hawkes@usask.ca)

Vice-Chair: Jim Hazzard, Itasca Consulting Group (jhazzard@itascacg.com)

Member: Derek Kinakin, BGC Engineering (DKinakin@bgcengineering.ca)

Member-at-Large: Prof. Giovanni Grasselli, University of Toronto (giovanni.grasselli@utoronto.ca)

#### **Affiliations with Other Organizations**

The Rock Mechanics Division is affiliated with the Canadian Rock Mechanics Association (CARMA). Through CARMA, the RMD interacts with the International Society of Rock Mechanics (ISRM). The chair of CARMA is rotated between the CGS-RMD and the Canadian Institute of Mining's Rock Engineering Society (CIM-RES). In 2010, CARMA was chaired by the CIM-RES chair (Jamie Archibald). In 2011, CARMA is being chaired by the CGS-RMD chair, Chris Hawkes. Other members of the CARMA executive in 2011 include Giovanni Grasselli (University of Toronto) who is responsible for secretarial and treasury affairs (and thus serves as a Member-at-Large for the RMD to better coordinate communication between the RMD and CARMA), Jamie Archibald and John Hadjigeorgiou (CIM-RES executive members), and Jim Hazzard (CGS-RMD executive member).

#### **Membership Information**

As of December 31, 2010, 77 CGS members had selected the RMD as their first choice and 225 had selected it as one of their second choices. 19 of those who selected RMD as a second choice also added ISRM membership; an additional 4 members who did not select RMD as a first or second choice also added ISRM membership.

#### **Financial Status**

The RMD itself has no finances. The CGS feeds membership dues for RMD members directly to CARMA. Information on CARMA's financial status is available via <http://www.carma-rocks.ca/memberinfo.html>. As of August 31, 2010, the cash balance of CARMA's bank account was \$60,908.86. Accounting for outstanding liabilities and credits, the net balance was estimated at \$ 56,288.86.

#### **Additional Information**

- RockEng12 – 21<sup>st</sup> Canadian Rock Mechanics Symposium – May 2012 - Edmonton, AB

**Background:** In light of the American Rock Mechanics Association's 2008 decision to discontinue its agreement with CARMA to hold a joint meeting in Canada every three years, CARMA decided to hold a symposium every three years in conjunction with the CIM Annual Meeting. The first such CARMA-sanctioned symposium (the 20<sup>th</sup> Canadian Rock Mechanics Symposium; titled RockEng'09) was held in Toronto in May 2009. The symposium was attended by 205 participants, included over 90 technical papers, and generated a net profit of \$20,149.05 which was shared equally between the CIM (\$10,074.52) and CARMA (\$10,074.53).

**Status:** In 2010 the CARMA executive decided to continue with the afore-noted format. As such, the 21<sup>st</sup> Canadian Rock Mechanics Symposium (titled RockEng12) will be held in Edmonton in May, 2012. A Technical Committee has recently been struck, consisting of Chris Hawkes (Chair), Sam Proskin (EBA, Edmonton, Associate Chair) and Derek Kinakin (BGC, Vancouver, Associate Chair). The theme planned for this symposium is "Rock Engineering for Natural Resources."

- In 2010 the RMD (through CARMA) supported a successful bid by McGill and Queen's Universities to jointly host the 13<sup>th</sup> ISRM Congress in Montreal in 2015. The theme is "Innovations in Applied and Theoretical Rock Mechanics." Organization of the Congress is being lead by Dr. Feri Hassani (McGill).
- Ten members attended the division's annual general meeting (AGM), which was held in conjunction with September's GeoCalgary'10 conference. Detailed minutes were circulated to Division members in November, 2010. Highlights include: (i) Ideas for potential use of CARMA funds that gained favourable response included digitization of past copies of Canadian Rock Mechanics Symposium proceedings, and student sponsorship for CGS, CIM and ISRM conferences; (ii) a suggestion to re-consider the selection criteria for the John Franklin Award, given the fact that the current criteria seem to favour academics over industry professionals.
- On June 1, 2011, the CGS-RMD executive approved – in principle – plans to develop: (i) a digital library of early copies of Canadian Rock Mechanics Symposium proceedings, which would be made available to RMD members by logging into the CGS website; and (ii) awards that would reimburse travel/accommodation/registration costs for selected students attending conferences organized by the CGS and/or CARMA. Plans for these initiatives will be developed by the CGS-RMD executive in the second half of 2011, and a proposal will be submitted to CARMA for sponsorship of these initiatives.

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***Soil Mechanics and Foundations Division - Bipul C Hawlader, Chair***  
***Report of Activities – July 1, 2010 to June 30, 2011***

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### **Introduction**

The mandate of the Soil Mechanics and Foundations Division is to promote classical geotechnical and foundation engineering research, to promote the documentation of case histories and experience of practicing engineers, and to promote and facilitate the continuing education of our members. This occurs through the regular technical meetings at the local level, through short courses and symposia, through support for the Cross Canada Lecture Tour, through our annual conference and via our liaison with the International Society of Soil Mechanics and Geotechnical Engineering.

### **Executive Committee**

The 2010-2011 Executive Committee of the Soil Mechanics and Foundations Division consists of the following members:

Chair: Bipul Hawlader, Memorial University of Newfoundland, St. John's [bipul@mun.ca]  
Past Chair: Jitendra Sharma, University of Saskatchewan  
Vice-Chair: TBD  
Members: Alex Baumgard, BGC Engineering Inc., Vancouver [abaumgard@bgcengineering.ca]  
Andrew Take, Queens University, Kingston [andy.take@civil.queensu.ca]  
Denis LeBoeuf, Université Laval, Québec [denis.leboeuf@gci.ulaval.ca]  
John Sobkowicz, Thurber Engineering Ltd., Calgary [jsobkowicz@thurber.ca]



Jitendrapal Sharma, University of Saskatchewan, Saskatoon [J.Sharma@usask.ca]  
Roger Skirrow, Alberta Infrastructure and Transportation Edmonton.

[Roger.Skirrow@gov.ab.ca]

Sean Hinchberger, Hatch Engineering, London [shinchberger@hatch.ca]  
Mohamed Meguid, McGill University, Montreal [mohamed.meguid@mcgill.ca]  
Robert Chapuis, Montreal Polytechnic, Montreal [robert.chapuis@polymtl.ca]  
M. Kamran Khan, Ministry of Transport Ontario London.

[MuhammadKamran.Khan@ontario.ca]

### **Affiliations with Other Organizations**

The Soil Mechanics and Foundations Division is affiliated with the International Society of Soil Mechanics and Geotechnical Engineering (ISSMGE).

### **Membership Information**

Not applicable.

### **List of Activities**

#### ***Committee Activities***

The committee is currently developing its program of activities for the upcoming year and these will be discussed further at the SMFD meeting at the 2011 Pan-Am CGS conference in Toronto. At the end of January 2011, ex-chair Dr. Sharma stepped down because of health issues and Dr. Hawlader agreed to serve as the chair of the SMFD.

#### ***Annual Meeting, CGS Conference – Calgary 2010***

The SMFD Annual meeting was held on Monday September 13, 2010 at Bannerman Room, Hyatt Regency, Calgary, chaired by Dr. Sharma. A number of issues were discussed, including:

- i) The development in terms of the publication of missing Canadian papers at the 17th ICSMGE, Alexandria, Egypt. The conference organizers were hopeful that Volume 5 of the proceedings, which should include these 17 missing papers, to be published by November 2010. However, because of political unrest in Egypt and also some other reasons it was delayed. On 31 March 2011, Marawan Shahien informed Prof. Briaud that the papers for Volume 5 have been finalized and was supposed to send to Mill press by 8<sup>th</sup> of April, 2011.
- ii) A free format discussion on various issues related to the Division's website. It was generally agreed that the existing website set up does not make setting up and updating of website easy. Need for regular communication with the Division's members was also emphasized although there were differences on how this can be achieved. The CGS secretariat is wary of sending too many e-mails to its members for the fear of these e-mails ending up in members' spam box.
- iii) The members also expressed strong support for Chair's suggestion that the Division should play a pivotal role in the reviewing of papers and organization of sessions related to soil mechanics and foundation engineering at the national conference. It was also felt that the initiative for this must lie with the local organizing committee.
- iv) An overview of upcoming Pan-Am CGS conference in 2011 in Toronto and other events (Geo-Frontiers conference in Dallas) and the role and interest to SMFD members were discussed.
- v) The Chair expressed the need for a change of guard in terms of SMFD's Executives and asked for members present to consider serving on the Executive. Some expressed their desire to serve on the SMFD Executive.
- vi) The Chair also sought nominations from SMFD membership for the various Technical Committees of the ISSMGE. No immediate response was received to his request at the meeting. It was agreed to send this as a request in the next CGS E-newsletter.

#### ***G.G. Meyerhof Award –2010***

A sub-committee was formed from the SMFD Executive Committee to select the winner of 2010 G. G. Meyerhof Award. Professor Adel Hanna of Concordia University was the recipient of the 2010 Meyerhof Award.

**G.G. Meyerhof Award –2011**

The nominations for G.G. Meyerhof Award 2011 have been received. Another sub-committee will be formed from the SMFD Executive Committee to select the winner of 2011 G. G. Meyerhof Award.

**Pan-American CGS Conference – Toronto, 2011**

SMFD is involved in organizing 14th Pan-American CGS Conference on Soil Mechanics and Geotechnical Engineering in Toronto (2011). Preparation for the conference is progressing well, with 990 submitted abstracts from 49 countries. Following technical committee review, 830 abstracts were recommended for the next stage of full paper submission. A total of 520 full papers had been submitted. Division board members involved in the technical paper review process are: Roger Skirrow, Bipul Hawlader, Andy Take, Sean Hinchberger and Mohamed Meguid. The technical chair for the conference is Tim Newson. The review process has been going very well and at this stage (May 29, 2011) it is nearly ready to send the paper acceptance/rejection e-mails to the authors.

**Financial Status**

Unknown

**Additional Information**

Not applicable

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**Section Summary Report - Marcia MacLellan, Sections Representative**  
**Report of Activities – July 1, 2010 to June 30, 2011**

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**Introduction**

Section reports for 2010-2011 have been submitted by all 20 local Sections of the CGS. Most local sections have reported being active during the year. Local sections have provided their members access to technical presentations, and special events such as the Cross-Canada Lecture Tours, Student Forums and social activities. There were 97 technical/CCLT presentations, 4 short courses, 2 conferences, 7 student events, and 2 golf tournaments held during this reporting period.

The financial status of larger sections remains in excellent condition. The majority of these sections continue to sponsor students or engineers-in-training to attend annual CGS conferences.

A summary of the available information from the Sections (grouped by Regions) is shown below. Further information regarding the local programming is provided in the reports prepared by each of the Section Directors and attached in the following pages.

Region	Section	Executive Members	Number of Events					Total Events
			CCLT	Technical Presentations	Workshops/ Short Courses	Student Events	Golf/Social Events	
Atlantic	New Brunswick	1						0
	Halifax	6	1	2				3
	St. John's	4		3				3
Eastern Quebec	Quebec City	13	2	2				4
Western Quebec	Montreal	6	2	5	1	1		9
Northern and Eastern Ontario	Kingston	8	2	1		1		4
	Ottawa	11	2	6		1		9
	Thunder Bay	5		1		1		2
Southern Ontario	London	18		7		1		8
	Sudbury	3	1					1
	Toronto	11	2	5		1	1	9
Manitoba	Winnipeg	8	2	4	1		1	8
Saskatchewan	Regina	4	1	3				4
	Saskatoon	9	1	3				4
Southern Alberta	Calgary (1)	12	2	7	2			11
Northern Alberta	Edmonton	16	2	6	1	1		10
British Columbia	Kelowna (2)	3	1	2	1			4
	Prince George	4	2					2
	Vancouver	8	2	8				10
	Victoria	5	2	5				7
<b>Total</b>	<b>20</b>	<b>155</b>	<b>27</b>	<b>70</b>	<b>6</b>	<b>7</b>	<b>2</b>	<b>112</b>

Notes:

1. Hosted 63<sup>rd</sup> Canadian Geotechnical Conference & 6<sup>th</sup> Canadian Permafrost Conference
2. Hosted 5<sup>th</sup> GeoHazards Conference

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**Vancouver Island Section - Deyab Gamal El-Dean, Section Director**  
**Report of Activities - July 1, 2010 to June 30, 2011**

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### **Introduction**

This report summarizes the activities of the Vancouver Island Geotechnical Group (VIGG), the Victoria Chapter of the Canadian Geotechnical Society, for the period from July 1, 2010 to June 30, 2011. The group has active members across southern and central Vancouver Island, BC.

### **Executive Committee**

The 2010-2011 executive committee of the Vancouver Island Geotechnical Group consisted of the following members:

Section Director/Chair:	Deyab Gamal El-Dean, P.Eng., Ph.D., Levelton Consultants Ltd.
Program Director/Past Chair:	Jay McIntyre, P.Eng., Thurber Engineering Ltd.
Secretary / Treasurer:	Sarah Morse, P.Eng., Golder Associates Ltd.
Registrar:	Dannica Switzer, EIT, Ryzuk Engineering
Member at Large:	Richard Brimmell, P.Eng.

### **Membership**

The Chapter membership includes 35 CGS members. This year, number of attendees varied between 21 and 43. Some of the attendees are non-geotechnical professionals (structural engineers, hydrogeologists, geophysicists, etc.) and retired engineers.

### **Meetings**

The VIGG conducts its meetings in a luncheon format in Victoria, BC. During last season we have seen more interest in our talks, which was represented in the number and diverse nature of attendees. Based on records of previous years, there is apparent increase in meeting attendance as seen below (data provided by Jay McIntire, Past Director):

2005/06: 13 – 30,  
2006/07: 13 – 30,  
2007/08: 19 – 26,  
2008/09: 15 – 28, and  
2009/10: 16 – 28 (the average = 23).

The number of attendees for this year varied from 21 to 43 with an average of 31. We have continued to provide attendees with a wide variety of topics. A total of seven luncheons have been held during this year, with guest speakers and topics as indicated in Table 1 below. Due to the timing of the fall CGS Cross Canada Lecture Tour, we had no luncheon in October.

### **Sponsoring Technical Presentations**

The Chapter has jointly sponsored (with CSCE and SEABC local Chapters) a multi-speaker presentation about the “Chile Earthquake of February 27 2010; Observations and Lessons for BC” which was held on 28 June 2010 at Ministry of Transportation and Infrastructure in Victoria, BC.

We are working with the SEABC local Chapter to organize a series of seminars about the most recent high-magnitude earthquakes (Japan, Chile, Haiti, Christchurch, etc) under the theme of “Observations and Lessons Learned for BC”.

**TABLE 1 - 2010/2011 VIGG SPEAKERS**

<b>Date</b>	<b>Speaker</b>	<b>Attendance</b>	<b>Topic</b>
September 21, 2010	Chad W. Petersmeyer, M.Sc., P.Geo.	25	James Island Groundwater Supply
November 3, 2010	Prof. Sarah M. Springman OBE, FREng, MA, MPhil, PhD, CEng, FICE, MInstRE, SIA	27	The Rüdlingen Landslide Experiment ( <b>CCLT</b> )
January 20, 2011	Prof. Stephen Johnston	43	The Bending and Breaking of Vancouver Island
February 15, 2011	William Jolley, ASCT, Dam Safety Section Head, Min. of Environment, Victoria, B.C.	25	How BC's Unique Dam Safety Program Evolved from the Failure of the Cannon Creek Dam
March 22, 2011	Peter R. Mitchell, P.Eng., Director of Professional Standards & Development	30	Letters of Assurance in the BC Building Code
April 13, 2011	Mark Diederichs, Dept. Geological Sciences and Geological Engineering, Queen's University	21	Laser Scanning (Lidar) for Rock Mass Characterization on Slopes and Tunnels ( <b>CCLT</b> )
May 19, 2011	Prof. Nicholas Sitar, Department of Civil & Environmental Engineering UC Berkeley	42	Seismically Induced Lateral Earth Pressures: A New Perspective

**Financial Status**

The 2009-2010 yearend financial balance of the VIGG was \$2048.41. Generally some profit is made on the luncheons. Our previously projected year-end balance was \$3000.00. The current balance (at end of June 2011) is \$2448.05. This difference is attributed to the additional costs incurred to pay for last speaker travel expenses (\$336 Vancouver to Victoria Air Fare).

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***Vancouver Section – (Uthaya) M. Uthayakumar, Section Director  
Report of Activities – July 1, 2010 to June 30, 2011***

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**Introduction**

This report is a summary of the activities of the Vancouver Geotechnical Society of the Canadian Geotechnical Society, for the period from July 1, 2010 – June 30, 2011. The group has active members from the Greater Vancouver area and two members from Kelowna, BC. A dedicated executive committee has been successful in organizing several well-attended presentations and seminars throughout the season. For further information, please see the VGS web site: <http://www.v-g-s.ca/>.

**Executive Committee**

The 2010-2011 Executive Committee of the Vancouver Geotechnical Society consists of the following members:

Chair:	Marc Bossé, exp Services Inc., Burnaby, BC
Past-Chair:	Chris Anderson, Golder Associates, Burnaby, BC
Secretary:	Jason Pellett, EBA Engineering Consultants Ltd., Vancouver, BC
Treasurer:	S. Sriskandakumar, BGC Engineering, Vancouver, BC
Program Director:	Ali Amini, Naesgaard Geotechnical Ltd, Vancouver, BC
Registrar:	Andrea Mak, Thurber Engineering Ltd, Vancouver, BC
Web Manager:	Carl Kelman, Levelton Consultants Ltd., Richmond, BC
CGS Director:	M. Uthayakumar, exp Services Inc., Burnaby, BC

### Activities

The VGS executive committee meets approximately once a month to organize technical presentations and social events, and to review issues relevant to the society membership. Generally, the executive meetings take place immediately before the monthly technical presentations. The attendance at the technical presentation ranges from about 60 to 100 persons. Notices of upcoming events held by VGS and other similar organizations in British Columbia and Washington State are distributed to all VGS members by email.

### Membership Information

Currently, the Vancouver Geotechnical Society has 228 regular members, 15 life members and 18 student members, to a total of 261.

### Meetings

The 2010 - 2011 meetings held to date were as follows:

1. October 05, 2010 – VGS Annual General Meeting  
*“Foundations for Thailand’s New International Airport”*  
Dr. Bengt H. Fellenius, President, Bengt Fellenius Consultants Inc., Sidney, BC
2. October 19, 2010  
*“Sustainable Highway Engineering: The I-405 Renton Stage I Widening Project”*  
Dr. Stan Boyle, Vice President at Shannon Wilson Inc., Seattle, WA
3. November 3, 2010  
Cross Canada Lecture Tour – Fall 2010 *“The Rüdlingen Landslide Experiment”*  
Dr. Sarah Springman, Professor and Head of Geotechnics Group, Swiss Federal Institute of Technology
4. November 18, 2010  
*“Soil Liquefaction – Follow-up to the 2009 one-day short course”*  
Dr. R.W. Boulanger, Professor University of California at Davis.
5. January 25, 2011  
*“Chile Earthquake”*  
Dr. Carlos Ventura, Professor, University of British Columbia, and Mr. Adrian Wightman, BGC Engineering, Vancouver, BC
6. February 8, 2011  
*“Engineering Aspects of Geohazard Risk Assessment in North Vancouver”*  
Heather Crow, Geological Survey of Canada, Ottawa and Dr. Jorge Prieto, Earthquake Engineering Research Facility, UBC
7. March 22, 2011  
*“The Canada Line Project”*  
Dr. Roger Woodhead, P.Eng.
8. April 13, 2011  
Cross Canada Lecture Tour - Spring 2011 *“Deep Tunneling in Hard Brittle Rock”*

Dr. Mark Diederichs, Professor, Department of Geological Sciences and Geological Engineering, Queen's University.

9. May 19, 2011  
*"Seismically Induced Lateral Earth Pressures: A New Perspective"*  
Dr. Nicholas Sitar, Professor of geotechnical and geological engineering at University of California, Berkeley.
10. June 07, 2011  
*"Excavation Support at the Bow Encana and Surrey Memorial Hospital"*  
Mr. Matthew Janes, P.Eng. President, Resonance Technology International Inc.

### **Financial Status**

The VGS's operating budget is primarily funded by profits from past symposia, technical short courses and conferences. As of May 2011 the VGS balance is \$48,607.01 of which \$40,604.36 is currently invested in a business savings account at ING bank, with the remainder to be used for regular operations.

### **Additional Information**

Planned technical presentations for the 2011-2012 season includes the following:

1. September, 2011 – A Case History of Forensic Engineering – Dr. Alex Sy
2. October, 2011 – A case History of Static Tests with Emphasis of Evaluation of the Data and Final Results for Actual Design – Dr. Bengt Fellenius
3. November, 2011 – Geotechnical Design for the William R. Bennett Bridge – Dr. (Uthaya) M. Uthayakumar

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## ***Prince George Geotechnical Group (PGGG) - Doug Dewar, Section Chair Report of Activities - July 1, 2010 – June 30, 2011***

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### **Introduction**

This report is a summary of the activities of the Prince George Geotechnical Group of the Canadian Geotechnical Society, for the period from July 1, 2010 to June 30, 2011.

### **Executive Committee**

The 2010/2011 Executive Committee of the Prince George Geotechnical Group consists of the following members:

Chair: Doug Dewar

Vice-Chair: Dave McDougall

Secretary/Treasurer: Nick Ekman (Soon to be replaced as Nick is leaving PG –thanks Nick!)

Past-Chair: Nick Polysou

### **Activities**

#### **Membership/Sponsorship**

The Prince George Geotechnical Group currently has over 30 active members. As in past years, our corporate sponsors AMEC Earth & Environmental Limited and GeoNorth Engineering have very generously supported the local organization. Additional corporate sponsors provide donations to help offset speaker honorariums.

This year we have had two great CGS talks provided by the Cross-Canada Lecture Tours. :

- November 1, 2010: Sarah Springman, "The Rüdlingen Landslide Experiment"
- April 12, 2011: Mark Diederichs, Use of Lidar to Map Rock Discontinuities in Tunnels

## **Financial status**

The PGGG has 300 dollars on account.

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## ***Interior Geotechnical Group (IGG) - Dwayne Tannant, Section Director Report of Activities – July 1, 2010 to June 30, 2011***

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### **Introduction**

This report is a summary of the activities of BC's Interior Geotechnical Group (IGG) of the Canadian Geotechnical Society for the period from July 1, 2010 to June 30, 2011. The group has active participants from across south central British Columbia, particularly from Kelowna and surrounding areas.

### **Executive Committee**

The Executive Committee of the Interior Geotechnical Group consists of the following members:

Chair:	Dwayne Tannant, University of British Columbia, Okanagan campus
Program Director:	Norm Williams, Interior Testing Services
Treasurer:	Glenn Rutherford, Golder Associates

### **Activities**

Specific activities for the period are listed under Meetings. The Section Director was also very busy over the past year preparing for and hosting the 5<sup>th</sup> Canadian GeoHazards Conference held in Kelowna from May 15 to 17.

### **Membership (and Corporate Sponsorship)**

The Interior Geotechnical Group has a membership of approximately 10+ CGS members from south central British Columbia, but attracts attendance (and solicits membership to the society) from the larger community of engineers, and geoscientists (including students, practitioners, and researchers) from the Okanagan area. The contact list for meetings currently has 78 active email addresses. There are no membership fees since managing the collection of money is not manageable with the small executive. Instead, a nominal fee is charged at each meeting to cover meeting expenses. Students are free. There was no corporate sponsorship.

### **Meetings**

Technical presentation meetings in the time period were:

Dec. 2, 2010: Landslides and Mitigation Measures by Nigel Skermer  
Feb. 23, 2011: Dam and Spillway Construction to Remediate a Failed Reservoir Rim at Priddis Greens Golf and Country Club by Rod Kostaschuk  
April 11, 2011: Laser Scanning (Lidar) for Rockmass Characterization on Slopes and Tunnels by Mark Diederichs - Canadian Geotechnical Society, Cross Canada Lecture.  
May 15-17: 5<sup>th</sup> Canadian Geohazards Conference. Group members participated in organizing the conference and the pre-conference technical tour. Both were a great success.

### **Financial status**

The Interior Geotechnical Group should receive a cash infusion resulting from net profits arising from the 5<sup>th</sup> Canadian GeoHazards Conference. As of mid-May, there was a balance of approximately \$700.

We use lecture room facilities at the University of British Columbia Okanagan campus to reduce the costs for our meeting rooms.



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**Northern Alberta, N.W.T. and Yukon Section – Paul R. Lach, Section Director**  
**Report of Activities July 1, 2010 to June 30, 2011**

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**Introduction**

This final report provides a summary of the activities of the Geotechnical Society of Edmonton (GSE) for the period from 01 July 2010 through 30 June 2011. The GSE remains an active local group and attendance of the monthly technical presentations and the annual symposium has been strong, averaging about 50 persons per event over the course of the last year. A number of diligent and dedicated individuals also volunteered to fill positions on the GSE Executive as listed below.

The GSE hosted a wide range of local, national and international speakers this year, with presentations on diverse subjects of interest to our membership. An Annual One-Day Symposium on *Soil Nailing, Tiebacks, and Landslide Stabilization* was organized with the Deep Foundations Institute (DFI) in February 2011. A Retaining Wall Construction Competition was held in April 2011 with student teams participating from the University of Alberta and the Northern Alberta Institute of Technology. Most recently, Dr. Mark Diederichs of Queens University presented the Spring Cross Canada Lecture (CCLT) to an enthusiastic audience. The 2010 / 2011 year will conclude with the Society's Annual General Meeting at which Dr. Myint Win Bo of DST Consulting Engineers will present on the *Application of Geotechnical Engineering in the Construction Industry and Beyond*.

A detailed final report of the current activities of the Geotechnical Society of Edmonton is provided below.

**GSE Executive Committee**

The 2010 / 2011 executive committee of the Geotechnical Society of Edmonton consisted of the following members:

President:	Yves Cormier, Stantec
Vice-President:	Soe Moe Kyaw Win, BGC Engineering
Past-President:	Sean Birch, AMEC Earth & Environmental
Treasurer:	Rocky Wang, Government of Alberta
Program Chair:	Kristen Tappenden, City of Edmonton
Secretary:	Adam Gmeinwaser, EBA Engineering Consultants Ltd.
CGS Section Director:	Paul R. Lach, City of Edmonton
Website / Communications:	Ken Froese, Thurber Engineering Ltd.
Registration:	Don Lewycky, City of Edmonton
U of A representative:	Alireza Bayat, University of Alberta
NAIT representative:	Hilton Barnes, Northern Alberta Institute of Technology
Student Member	David Elwood, University of Alberta
Members-at-large	Murray Innes, Mobile Augers Karen Jardine, Strathcona Environmental Coordination Roger Skirrow, Alberta Transportation Robert Vasseur, Beaver Plastics

Activities hosted and/or organized by the GSE over the reporting period were as follows:

Date	Activity	Presenter
27 Sept 2010	Annual Wine & Cheese Reception, University of Alberta	
	<i>Estimating Soil Properties using Deformations Associated with Deep Excavations</i>	David Elwood, Ph.D. Candidate
	<i>Relevance of Collisional Flow Mechanism in Dry Granular Flow</i>	Abraham Mineneh, Ph.D. Candidate

29 Oct 2010	Lunch Meeting, Fall CCLT: <i>The Rüdlingen Landslide Experiment</i>	Dr. Sarah Springman, ETH Zurich
07 Dec 2010	Lunch Meeting, AEG/GSA Jahns Lecture: <i>The Landslide that Ate Laprak</i>	Dr. William Haneberg, University of Cincinnati
20 Jan 2011	Joint Dinner Meeting, GSE & CSCE Edmonton Chapter: <i>Landform Design for Oil Sands Reclamation</i>	Brad Russell, BGC Engineering Inc.
24 Feb 2011	2011 Annual Symposium with DFI: <i>Current Topics in Soil Nailing / Tiebacks and Landslide Stabilization</i>	Various speakers affiliated with DFI
22 March 2011	Lunch Meeting: <i>Application and Use of Continuous Flight Auger Piles in Western Canada</i>	Jeff Grieder, North American Construction Group
15 April 2011	Lunch Meeting, Spring CCLT: <i>Geomechanical Performance of a Deep Geological Repository for Nuclear Waste</i>	Dr. Mark Diederichs, Queen's University
25 May 2011	Annual General Meeting: <i>Application of Geotechnical Engineering in the Construction Industry and Beyond</i>	Dr. Myint Win Bo, DST Consulting Engineers, Thunder Bay, Ontario

### **Membership and Corporate Sponsorship**

As of May 2011, the membership of the GSE comprised 182 regular members, 30 student members, 5 retired or unemployed members, and 22 GSE Stan Thomson Award Winners (with lifetime membership), for a total of 239 members.

### **Meetings**

The GSE executive held regular monthly meetings throughout the year in order to review the financial status of the society and the progress of the technical program, as well to exchange information and plan events with representatives from the University of Alberta and the Northern Alberta Institute of Technology.

### **Financial status**

The GSE remains in a positive position from a financial standpoint. The proceeds of the 2008 CGS Conference held in Edmonton are already at work through a \$20,000 funding augment to the University of Alberta N.R. Morgenstern Graduate Student Scholarship and a \$5,000 interest-free loan provided to the Canadian Foundation for Geotechnique. I look forward to continued strong collaboration to promote both our local and national organizations in the coming year.

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## ***Southern Alberta Section - Marcia MacLellan, Section Director Report of Activities – July 1, 2010 to June 30, 2011***

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### **Introduction**

This report is a summary of the activities of the Calgary Geotechnical Society of the Canadian Geotechnical Society for the period from July 1, 2010 – June 30, 2011. The Calgary Geotechnical Society is the only group active in the Southern Alberta Section, with about 150 actively participating members.

A dedicated executive committee has been successful in organizing a number of well-attended monthly lectures and other events throughout the season. In addition, Calgary hosted the annual geotechnical conference in September 2010; many executive members were part of the conference organizing committee.

## Executive Committee

The 2010-2011 executive committee of the Calgary Geotechnical Society consists of the following members:

Co-Chair:	Frank Magdich	Oak Environmental
Co-Chair:	Bhamisha Ramdharry	Thurber Engineering
Past Chair:	Justyna Kos	Syncrude Canada
Treasurer:	Robert Armstrong	Golder Associates
Venue Coordinator:	Angela Beattie	Grande Cache Coal Corporation
Announcements:	Daniel Bertrand	AMEC Earth and Environmental
Webmaster:	Mauricio Pinheiro	Thurber Engineering
Student Rep.:	Sarah Khosravani	University of Calgary
Member, CGS	Marcia MacLellan	Klohn Crippen Berger
Exec. Committee:		
Member At Large:	Simon Cullum-Kenyon	TransAlta Utilities
Member At Large:	Brad Ellingwood	E2K Engineering
Member At Large:	Ardeshir Sharif-Abadi	AMEC Earth and Environmental

## Activities

The 2010–2011 calendar has been active and successful for the Calgary Geotechnical Society. The group was successful in organizing quality monthly technical presentations with participation ranging from 30 to 50 attendees. A summary of the activities for the region from July 2010 until present follows:

August 10, 2010	Timothy Scheibe, Ph.D., Pacific Northwest National Laboratory 2010 Darcy Lecture – Western BBQ Quantifying Flow and Reactive Transport in the Heterogeneous Subsurface Environment: From Pores to Porous Media and Facies to Aquifers n.b.This lecture was cancelled by the presenter
September 12-16, 2010	GEO2010: In the New West 63 <sup>rd</sup> Canadian Geotechnical Conference & 6 <sup>th</sup> Canadian Permafrost Conference
October 28, 2010	2010 Fall CCLT – Dinner Presentation Sarah Springman, Ph.D., Professor and Head of Geotechnics Group at ETH Zurich The Rüdlingen Landslide Experiment
November 16, 2010	Mr. Chuck Slack, P.Eng., Klohn Crippen Berger Ltd. Calgary Bow River Weir Project
December 8, 2010	William C. Haneberg, Ph.D., Consulting Geologist AEG/GSA 2010 Jahns Distinguished Lecture – Dinner Presentation The Landslide That Ate Laprak
January 25, 2011	Mr. James Sharp, P.Eng., ConeTec Investigations Ltd. Recent Advancements in Geotechnical Characterization of Oil Sand Tailings Wine and Cheese New Year Social
February 23, 2011	Mr. Kyle Noble, P.Eng., Stantec Consulting Ltd. Lessons Learned from Test and Production Programmes for Driven Piles in Sand
March 10 - 11, 2011	2-Day Short Course: Modelling Salt and Nitrate Transport in Soil and Groundwater Using HYDRUS Dr. Jirka Simunek, Professor of Hydrology with the Department of Environmental Sciences of the University of California Riverside

March 24, 2011	Mr. Don Phelps, P.Eng., Hatch Mott MacDonald Ltd. Alaskan Way Viaduct Replacement Tunnel in Seattle
April 14, 2011	2011 Spring CCLT – Dinner Presentation Dr. Mark Diederichs, P.Eng., Department of Geological Sciences and Geological Engineering, Queen's University Deep Tunnelling in Hard Brittle Rock
April 21, 2011	Mr. Henry Crawford, P.Eng. and Mr. Stephen Bean, P.Eng., Thurber Engineering Joint Presentation with Canadian Society for Civil Engineering (CSCE) Geotechnical Investigation and Design for Highway Rock Slopes
May-June 2011 (TBA)	Calgary Branch Annual General Meeting and Awards Celebration Mr. Bryan Watts, M.Sc., P.Eng., FEIC, Klohn Crippen Berger Ancient Landslide Discovered in Chilliwack

### **Website**

The Calgary Geotechnical Society website was revamped at the beginning of the 2009 season by our executive member webmaster. The website contains up to date information on upcoming and past events, list of current and past executive members, description of awards and list of award winners, and a sponsors page. The website address is: [www.cgygeosociety.org](http://www.cgygeosociety.org).

### **Awards**

The winner of the 2010 Calgary Geotechnical Society Award was Dr. Dennis Becker. Carlos Ordonez, University of Calgary student, was sponsored to attend the 2010 Canadian Geotechnical Conference in Calgary.

### **Financial Status**

The Calgary Geotechnical Society's operating budget is primarily funded by corporate sponsorship, and profits from past short courses and conferences. The Calgary Group last requested corporate sponsorship in late 2009. The CGS currently has about \$33,000 in the bank, after receiving the proceeds from the 2010 Conference (\$28,427) and March short course (\$4,405).

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## ***Saskatoon Geotechnical Group – Kelly Pardoski, Section Director***

### ***Report of Activities - July 1, 2010 to June 30, 2011***

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### **2010 – 2011 Executive**

President	David Christensen, O'Kane Consultants Inc.
Vice President	Randal Osicki, MDH Engineered Solutions Corp.
Past President	Bryce Reiter, WorleyParsons Canada Ltd.
Section Director	Kelly Pardoski, P. Machibroda Engineering Ltd.
Member at Large	Erik Ketilson, AMEC Earth and Environmental
Member at Large	Dana Fenske, Cameco Corporation
Member at Large	Tyrel Lloyd, Golder Associates Ltd
Member at Large	Craig Rudulier, MDH Engineered Solutions Corp.
U of S Liaison	Jitendra Sharma, University of Saskatchewan

The SGG Executive met once in 2010.

### **Membership**

The SGG has averaged 50 paid members annually. At the completion of the 2010-11 year we have 82 paid members. Annual membership dues are \$30.00.

## Presentations

Oct. 25, 2010	Sarah Springman	CCLT – The Rudlingen Landslide Experiment
Feb. 16, 2011	Del Fredlund	Investigation of the collapse of the Highland Towers in Kuala Lumpur, Malaysia
Mar. 14, 2011	Tony Liangton Zhan	Solid waste management (landfills) in China
April 5, 2011	Fred Antunes	Flood Event at Highway #1 at Maple Creek, SK
April 26, 2011	Rashid Bashir	Surfactants and Subsurface Remediation Strategies

## Awards, Donations and Events

- SGG Annual Scholarship – University of Saskatchewan: \$500.00
- 4<sup>th</sup> Year Student Design Awards and Presentations: \$200.00

## Financial

- Account Balance as of May 2011: \$22,300.00

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## ***Regina Section - Shahid Azam, Section Director Report of Activities - July 1, 2010 to June 30, 2011***

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## Introduction

This report is a summary of the activities of the Regina Geotechnical Group of the Canadian Geotechnical Society, for the period from July 1, 2010 to June 30, 2011.

## Executive Committee

The Executive Committee of the Regina Geotechnical Group consists of the following members:

Steve Harty, P. Eng.	Chair/President	Ground Engineering Consultants Ltd.
Allen Kelly, P. Eng.	Program Director	Clifton Associates Ltd.
Paul Walsh, P. Eng.	Secretary Treasurer	Ground Engineering Consultants Ltd.
Shahid Azam, P. Eng.	Section Director	University of Regina

## Activities

The following technical presentations were hosted during this period.

October 27, 2010	Professor Sarah Marcella Springman	The Rudlingen landslide experiment
February 28, 2011	David P. van Zeyl	Geology, geomorphology and stability of a large rock slope in Knight Inlet, British Columbia: Implications for tsunami hazard
April 6, 2011	Maki Ito	The effect of seasonal climate on volume change behavior of Regina Clay
April 29, 2011	Fred Antunes	Highway No. 1 washout, Maple Creek, Saskatchewan

## Membership

The Regina Geotechnical Group currently has 25+ members.

## Meetings

With the exception of the activities outlined above, the Regina Geotechnical Group did not hold any meetings during this period.

## Financial status

The Regina Geotechnical Group has a bank balance in the order of \$12,000.

## Additional Information

The Regina Geotechnical Group provides the University of Regina with an annual \$500.00 scholarship and the SIAST Palliser Institute in Moose Jaw with a \$100.00 book award. The Regina Geotechnical Group also provides sponsorship donations to various local academic functions.

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## ***Manitoba Section - Nelson John Ferreira, Section Director*** ***Report of Activities from July 1, 2010 to June 30, 2011***

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## Introduction

The Canadian Geotechnical Society (CGS) – Manitoba Section held 4 luncheon presentations in addition to hosting the Cross-Canada Lecture Tour in fall 2010 and in spring 2011. In addition to the technical presentations, a Short Course was held.

## Executive Committee

The 2010-2011 Executive Committee consists of the following members:

Chair:	Kendall Thiessen, Ph.D., P.Eng.	AECOM
Treasurer:	Neil Privat, M.Sc., EIT	KGS Group
Secretary:	Lena Anderson, B.Sc.	Tetra Tech
Program Director:	Kent Bannister, M.Sc., P.Eng.	Manitoba Hydro
Assistant Program Director:	Wing Keat Wong, EIT	AMEC
Membership Chair:	Alexandria Beveridge, EIT	Golder Associates
Student Liaison:	Hamid Batenipour, Ph.D. Candidate, EIT	University of Manitoba
Section Director:	Nelson J. Ferreira, M.Sc., P.Eng. (2011)	TREK Geotechnical

## Membership and Corporate Sponsorship

As of 18 of April 2011, the Manitoba Section has 41 members. The local Executive Committee has begun to contact and remind registered members last year to renew their membership as part of the annual Membership drive. In addition, new membership registration drive has commenced.

Corporate sponsorship continued to be instrumental in supporting the activities of the Manitoba Section primarily related to the annual Atterberg Cup Golf Tournament and Short Courses. This corporate base has been solid for a number of years now.

## List of Activities

The Manitoba Section held four technical presentations throughout this reporting period. In addition, it hosted the fall 2010 and spring 2011 Cross-Canada Lecture Tours. A Short Course was held in March 2011.

The presentations are as follows:

- September 09, 2010 - The Enhanced Sealing Project: Instrumentation and Monitoring of a Full-Scale Shaft Seal  
Presented by: Blake Holowick, University of Manitoba  
Development of Transparent Clay for Laboratory Model Tests  
Presented by: Nazri Mohidin, University of Manitoba

- October 26, 2010 - Fall CCLT: The Rüdlingen Landslide Experiment  
Presented by: Dr. Sarah Marcella Springman
- November 24, 2010 - Near Collapse of the St. Adolphe Bridge – An Exercise in Emergency Engineering  
Presented by: Dr. Rob Kenyon, KGS Group
- January 06, 2011 - How new biotic hydraulic growth mediums are changing how we think about subsoil, top soil and vegetation on our constructions sites  
Presented by: Mark Myrowich, Erosion Control Blanket
- February 24, 2011 - Stabilization of Natural Clay Riverbanks with Rockfill Columns: A Full-Scale Field Test and Numerical Verification  
Presented by: Dr. Kendall Thiessen, AECOM
- March 18, 2011 - 1 Day Short Course: Engineering Geology of Manitoba  
Presented by: Dr. Jim Teller, University of Manitoba  
Presented by: Mark Pacey, Manitoba Geological Survey
- April 18, 2011 - Spring CCLT  
Presented by: Dr. Mark Diederichs
- June 09, 2011 - 11<sup>th</sup> Annual CGS Golf Tournament  
+50 golfers attended  
River Oaks Golf Course

#### **Financial Status**

The operating surplus is about \$25,000. The Manitoba Section continued to subsidize luncheon presentations and social activities, provide financial assistance to either graduate student or EIT attending the annual CGS conference and contribute to established programs including the "Making Links Engineering Classic" Golf Tournament fundraising initiative between the APEGM and the University of Manitoba.

#### **Additional Information**

The CGS Manitoba Section was able to make a donation of \$3,000 to the Neil Burgess Memorial Scholarship Fund in 2010. This scholarship is awarded annually to a geotechnical graduate student at the University of Manitoba. This donation was from the proceeds of the 10<sup>th</sup> Annual CGS Golf Tournament.

The Manitoba Section will again sponsor a graduate student or an engineer-in-training to attend the 2011 Annual CGS conference.

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### ***Thunder Bay Section – Dr. Myint Win Bo, Section Director Report of Activities - July 1, 2010 to June 30, 2011***

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#### **Introduction**

This report is a summary of the activities of the Thunder Bay Section of the Canadian Geotechnical Society, for the period from 01 July 2010 – 30 June 2011. The group has active members from across Northwestern Ontario, particularly from the Thunder Bay area. A dedicated executive committee has been successful in organizing student projects on Geotechnical engineering. A detailed report from the Thunder Bay Regional Geotechnical Group is provided below.

### **Executive Committee**

The 2010-2011 Executive Committee of the Thunder Bay Region Geotechnical Group consists of the following members:

Section Director and Chair:	Dr. Myint Win Bo
Vice-Chair and Secretary	Dr. Eltayeb Mohamedelhassen
Treasurer:	N/A
Past-Chair:	Bruce Kjartanson
Members:	Wesley Saunders
Advisor:	Mike Fabius

### **Activities**

#### **Membership**

The Thunder Bay Region Geotechnical Group currently has 8 paid members and likely to increase to 12 in coming year.

#### **Meetings**

The 2010-2011 meetings held to date were as follows:

Between November 2010 and mid-March 2011, bi-weekly meetings were held among committee members to implement and guide two geotechnical study projects to be carried out by two groups of Lakehead University final year students. (one being soil nail project and another being CPT project)

Two groups of final year student presentations were made in last week of April for two projects namely Soil Nail design project and Determination of empirical correlation parameters between measured CPT data and geotechnical parameters.

Participated Lakehead chapter PEO annual meeting in April.

#### **Financial status**

N/A

#### **Additional Information**

The remaining events for the 2010-2011 season include:

To participate in Lakehead Chapter PEO Engineering day in November 2011.

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## ***Northern Ontario Sudbury Chapter - Tommi Leinala, Section Director Report of Activities - July 1, 2010 to June 30, 2011***

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### **Introduction**

The 2010/2011 was a period of minimal activity for the CGS Sudbury Chapter. The Cross-Canada Lecture Tour (CCLT) was extremely successful. The section has been in a period of low activity and the local chapter will be devising a course of action and hopes to build on the interest generated from the (CCLT)

### **Executive Committee**

The executive committee of the Sudbury CGS Chapter consists of the following members:

Chair:	Tommi Leinala (AMEC)
Member:	Dan Cacciotti (AMEC)
Member:	Sarah Coyne (Golder Associates)



### **Sponsorship**

Centre for Excellence in Mining Innovation (CEMI) provided the venue for the CCLT presentations. CEMI/MIRARCO has provided a venue for presentations since 2004 for no cost. AMEC and Golder Associates were able to provide support to the event with the provision of support personnel and services. The support of AMEC, Golder, and particularly MIRARCO/CEMI (which provides lecture space at no cost) has been essential in order for the operation of the Sudbury Section.

### **Affiliations**

CEMI and MIRARCO are active affiliations the CGS is pursuing. Local post-secondary institutions, Laurentian University and Cambrian College are being approached to develop relationships that will benefit the local CGS Chapter.

### **Activities**

The 2011 activities included the CCLT. This event was held at no cost to attendees and had over 30+ attendees.

The executive of the Sudbury Chapter are going to be seeking additional members to become involved with the organization. Interest was expressed by some attendees during the CCLT presentation.

### **Current Financial Status**

Currently the Sudbury Chapter has approximately \$680 in a savings account.

### **Additional Information/ Future Prospects**

The Sudbury Chapter will be attempting to coordinate a minimum of 3 events for the upcoming year starting sometime in the Fall of 2011. In addition, the Sudbury Chapter hopes to establish further relationships with the local post-secondary institutions, with the intent to sponsor graduate or/an undergraduate student to participate in a future CGS Conference.

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## ***London Section – Dan Babcock, Section Director Report of Activities - July 1, 2010 to June 30, 2011***

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### **Introduction**

The CGS Section in London, Ontario is a joint CSCE-CGS Chapter with a broad representation of professionals, professors and students on the executive. This report is a summary of the activities of the Chapter for the period from 01 July 2010 – 30 June 2011. The group has active members from across Southwestern Ontario, particularly from the London, Windsor and Kitchener-Waterloo areas. The executive committee has organized several dinner presentations throughout the season (the Chapter's season runs from October to May). A detailed report from the Section is provided below.

### **Executive Committee**

The 2010-2011 Executive Committee of the Chapter consists of the following members:

Grant Strachan	Section Chair	AECON
Ernest Yanful	Past Chair	University of Western Ontario
Tom Mara	Vice Chair/Webmaster	University of Western Ontario
John Gawley	Treasurer	Dillon Consulting Limited
Azmi Hammoud	Communications	Golder Associates Ltd.
Andy Turnbull	CSCE Rep./Ontario Region Treasurer	Ministry of Transportation, Ontario
Gaven McDonald	Event Co-ordinator/Public Relations	AECOM
Josh Strub	Secretary	University of Western Ontario
John Simon	City of London Rep.	City of London
Dan Babcock	CGS Rep./Golder Rep.	Golder Associates Ltd.
Darryl Klassen	Dillon Rep.	Dillon Consulting Limited

Mike Bartlett	UWO Faculty Rep.	Fanshawe College
Jeff Blaylock	Graduate Student Rep.	University of Western Ontario
Chris Kocur	Graduate Student Rep.	University of Western Ontario
Vicky Sura	Graduate Student Rep.	University of Western Ontario
Matt Johnson	4 <sup>th</sup> Year Student Rep.	University of Western Ontario
Dane Trapara	3rd Year Student Rep.	University of Western Ontario
Matt McGrath	2 <sup>nd</sup> Year Student Rep.	University of Western Ontario

## Activities

### Membership

The London Chapter has about 300 members (PEO, CSCE, CGS and Student members). Our Chapter has been financially self-sustained by the money generated from the dinner meetings.

### Meetings

The July 2010 to June 2011 season consisted of seven dinner meetings held at the Fox and Fiddle Restaurant (formerly the Elephant and Castle Restaurant) in downtown London:

#### **September 2010:** International Development Internship

DAVID MARMOR, JESSICA BARKER, KATE PEJMAN, UNIVERSITY OF WESTERN ONTARIO

#### **October 2010:** London 2030 Transportation Plan (Smart Moves)

MAGED ELMADHOON AND DAVE LECKIE, CITY OF LONDON

#### **November 2010:** WindEEE Dome and a New Generation of Wind

DR. HORIA HANGAN, UNIVERSITY OF WESTERN ONTARIO

#### **January 2011:** Climate Change and Water Management

DR. SLOBODAN SIMONOVIC., UNIVERSITY OF WESTERN ONTARIO

#### **February 2011:** Cost Based risk Assessment

CHANTAL MCQUEEN, DILLON CONSULTING LIMITED

#### **March 2011:** Canadian Wood Initiatives

STEVEN STREET., CANADIAN WOOD COUNCIL

#### **April 2011:** Bridge Reconstruction

MIKE BARTLETT, UNIVERSITY OF WESTERN ONTARIO

### Financial Status

The current bank account is \$4,520.40

The London Chapter also supported a number of University of Western Ontario student activities and the executive are currently planning events for the 2011-2012 season and considering plans for increased membership and revenue.

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**Southern Ontario Section – Toronto Group – Tae Kim, Section Director**  
**Report of Activities - July 1, 2010 to June 30, 2011**

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### Introduction

This annual report is a summary of the activities of the Toronto Group of the Southern Ontario Section of the Canadian Geotechnical Society, for the period of July 1, 2010 to June 30, 2011.

### Executive Committee

The 2010-2011 Executive Committee of the CGS-SOS Toronto Group meets monthly to discuss group matters and to organize technical events.

The committee consists of the following members:

Director:	Tae C. Kim	Ministry of Transportation Ontario (MTO)
Chair:	Jinyuan Liu	Ryerson University
Past Chair:	Charles G. Crans	Geo-Foundations Contractors Inc.
Secretary:	Christopher Ng	Golder Associates
Treasurer:	Minkyung Kwak	Ministry of Transportation Ontario (MTO)
Awards:	Salman Bhutta	Exp. ( Old Trow )
Communication:	Mark Farrant	Thurber Engineering
Membership:	Peter McDonald	Deep Foundations Contractors
Student Liaison:	Murray Grabinsky	University of Toronto
Event Coordinator:	Fanyu Zhu	SPL Consultants
Event Coordinator:	Dmitry Olshansky	Toronto Transit Commission (TTC)

### Membership

The Toronto Group currently has about 180 active members. The SOS continues to organize and fund the annual Graduate Student Competition and invites students to attend our monthly dinner presentations at no charge.

### Activities

List of Activities held from July 1, 2010 – June 2011:

- Date: September 29, 2010 – Second Annual CGS-SOS Golf Tournament at Royal Woodbine GC  
*97 participants (92 golfers and 5 lunch-only participants)*
- Date: October 22, 2010 - Fall Cross Canada Lecture by **Prof. Sarah Springman –ETH Zurich**  
Topic: **The Rudlingen Landslide Experiment**  
*81 participants (Incl. 1 speaker)*
- Date: November 10, 2010 – Dinner Presentation by **Dr. Storer Boone - Golder Associates Ltd. and Mr. Tae C. Kim – MTO**  
Topic: **Bridges, Salt and Sinkholes: Applications of Geophysics for the Detroit River International Crossing**  
*98 participants (Incl. 2 speakers)*
- Date: December 15, 2010 - Christmas Dinner Social **Dr. Leo Rothenburg – University of Waterloo**  
Topic: **Foundation and Legends of Taj Mahal**  
*83 participants (Incl. 1 speaker)*
- Date: January 19, 2011 – **Graduate Student Competition Night**  
Topic: About 50 members and students participated from Ryerson University, University of Toronto, University of Waterloo and University of Western Ontario. The winner was M. Meckkey El Sharnouby (Topic: “Full-scale experimental program of helical piles under axial monotonic and

cyclic loading”) from University of Western Ontario. He received a \$500 Cash Award, and will attend the 2011 CGS National Conference in Toronto with all expenses paid.

Date: March 2, 2011 – Dinner presentation by **Mr. David Kusturin – Waterfront Toronto**  
Topic: **Waterfront Toronto Project**  
92 participants (Incl. 1 speaker)

Date: March 23, 2011 – Dinner presentation by **Dr. Harry Poulos – Coffey Geotechnics**  
Topic: **The Effect of Tunnel Construction on Existing Urban Infrastructure**  
96 participants (Incl. 1 speaker)

Date: April 20, 2011 – Spring Cross Canada Lecture by **Prof. Mark Diederichs – Queen's University**  
Topic: **Geotechnical Performance of a Deep Geological Repository for Nuclear Waste**  
96 participants (Incl. 1 speaker)

Date: May 11, 2011 – Annual Dinner Lecture by **Mr. Scot Litke, Editor ‘Foundation Drilling Magazine’**  
Topic: **Communication is a Two, Three, or Four Way Street**  
270 participants (Incl. 1 speaker)

### **Financial status**

The Toronto Group is in a strong financial position with approx. \$28,000.00 held in account in addition to the \$15,000 seed money loaned to the organizing committee for the 64th CGC/14<sup>th</sup> Pan Am Conference to be held in Toronto in 2011. This strength enabled the purchase of a camcorder and continued underwriting of student participation in CGS-SOS Events and initiating new CGS-SOS Toronto Group Undergraduate Awards.

### **CGS-SOS Toronto Group Website**

The redesigned CGS-SOS Toronto Group website has been in operation since September 2008. The website contains the most up-to-date information on SOS Toronto Group’s past and upcoming activities, list of executive members, membership update forms, and a list of past CGS-SOS executive members.

### **Additional Information**

CGS-SOS Toronto Group initiated CGS-SOS Toronto Group Undergraduate Scholarship program, which intends to offer up to five Undergraduate Student Awards to undergraduate students from the five universities in GTA. The award amount will be \$500 for each award. The 2011 CGS-SOS Toronto Group Undergraduate Scholarship winners are Ramesh Khatiwada from Ryerson, Aileen Cash from Waterloo, Safaa Alrhieh from McMaster and Dave Graham from UWO. These Awards were announced during the CGS-SOS Annual Dinner on May 11, 2011.

### **Closure**

This report was prepared with the help of Jinyuan Liu, CGS-SOS Toronto Group Chair, Minkyung Kwak, Treasurer, and Marcia Mora, incoming Treasurer.

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## ***Kingston Section - Martin Burger, Section Director*** ***Report of Activities - July 1, 2010 to June 30, 2011***

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### **Introduction**

This report is a summary of the activities of the Kingston Section of the Canadian Geotechnical Society, for the period from 01 July 2010 – 30 June 2011. The group has active members from across South-Eastern Ontario, particularly from Kingston and surrounding areas. The section’s executive committee has been intermittently active during this period organizing a number of noon-hour speakers and a graduate student paper competition (together with the Ottawa Geotechnical Group). The section helps to promote a regular speaker series hosted by our sponsor, the Queen’s-RMC Centre for Geo-Engineering. A detailed report from the Kingston Section is provided below.

## **Executive Committee**

The 2010-2011 Executive Committee of the Kingston Section consists of the following members:

Chair: Greg Siemens, RMC  
Past Chair: Ian Moore, Queen's University  
Vice-Chair: n/a  
Section Director: Martin Burger, Cruickshank Construction Limited  
Treasurer: Jenn Meleschuk, MTO  
Members: Steven Rose, Malroz Engineering  
Melissa Chappel  
Kathy Kalenchuk  
Matt Perras (Student Rep.)

## **Activities**

Specific CGS activities for the period are listed under meetings. In addition to the listed meetings, 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. The new Section Director and the Chair attended the 2010 GeoCalgary Conference.

## **Membership (and Corporate Sponsorship)**

The Kingston Section captures a membership of approximately 20+ CGS members from Kingston, but attracts attendance (and solicits membership to the society) from the larger community of engineers, geoscientists (including students, practitioners, and researchers) from the area surrounding Kingston in eastern Ontario. This year we have three corporate sponsors who have very generously supported the local organization. The donations from our sponsors help to defray the costs of hosting speakers, Cross Canada Lecture Tours, and the costs of our meeting rooms. Our corporate sponsors include:

Cruickshank Construction Ltd.  
MALROZ Engineering Inc.  
The Queen's-RMC Geo-Engineering Centre

## **Meetings**

The 2010-2011 meetings held to date were as follows:

- Oct. 4, 2010 Luncheon Talk – Dr Paul Marinos, 2010 Jahns Distinguished Lecturer  
Geology of Athens Greece
- Oct. 21, 2010 Luncheon CCLT- Talk – Dr Sarah Springman, ETH Zurich  
The Rudlingen Landslide Experiment
- Mar. 1, 2011 35th Annual Graduate Student Forum (co-hosted with Ottawa Group)  
Three student presentations from Carleton, U.Ottawa and Queen's
- Apr. 5, 2011 Luncheon CCLT Talk - Mark Diederichs

## **Financial status**

The Kingston Section continues to operate on a break-even basis with a current balance of (approx.) \$500.00

## **Additional Information**

The remaining events for the 2010-2011 season include:

June Election of new Executive Members

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**Ottawa Section (OGG) - Baolin Wang, Section Director**  
**Report of Activities - July 1, 2010 to June 30, 2011**

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**Introduction**

This is an annual report of the Ottawa Geotechnical Group (OGG) of the Canadian Geotechnical Society, for the period from 01 July 2010 to 30 June 2011. It provides a summary of the activities of the OGG during this period. A dedicated executive committee has been successful in organizing several well-attended presentations throughout the season. Details are as follows.

**Executive Committee**

The 2010-2011 Executive Committee of the Ottawa Geotechnical Group consists of the following members:

Chair: Clive Kamichaitis, Golder Associates Ltd.  
 Vice-Chair: Vacant  
 Secretary: Bruce Campbell, Environmental Solutions Remediation Services  
 Treasurer: Michel Timmons, Groupe Qualitas  
 Past-Chair: Nell van Walsum, WESA  
 Members: Michael Bleakney, Public Works and Government Services Canada  
 Paul Simms, Carleton University  
 Siva Sivathayalan, Carleton University  
 Sean Sterling, Geofirma Engineering  
 Student Member: Emily Vingerhoeds, Carleton University  
 Advisor: Peter Gerabek  
 CGS Section Director: Baolin Wang, Natural Resources Canada

**Activities**

Date	Speaker	Affiliation	Title of Talk	Type of Event	Attend.
22-Sep-2010	Beth Halfkenny	Carleton University	Field tour – Hog's Back geology	OGG kick-off event	18
20-Oct-2010	Sarah Springman	Institute for Geotechnical Engineering, Zurich, Switzerland	The Rüdlingen Landslide Experiment	CCLT	43
17-Nov-2010	Serge Leroueil	Université Laval	The Case of Goongoongup Railway Bridge, Perth, Australia	Luncheon presentation	49
09-Dec-2010	Sean Sterling	Intera Engineering Ltd.	Geoscientific Site Characterization of the Proposed Deep Geologic Repository	Luncheon presentation	35
06-Jan-2011	William Haneberg	Consulting Geologist, Cincinnati	Making the Most of Airborne LiDAR for Engineering Geologic Applications	Luncheon presentation	30
09-Feb-2011	Mike Pockoski	Geopier Foundation Company	One Mile House Project in Saint John	Luncheon presentation	34
01-Mar-2011	1. Tariq M. Bajwa 2. Kazi Rahman 3. Mathan Vipulanandam	1. University of Ottawa 2. Queen's University 3. Carleton University	1. Thermo-hydro-mechanical (THMC) properties of landfill biocover 2. Numerical analysis of the response of adjacent pipelines during static pipe bursting 3. Initial stress state and stress history effects on liquefaction susceptibility of sands	Students competition	25
19-Apr-2011	Mark Diederichs	Queen's University	Deep Tunneling in Hard Brittle Rock	CCLT	60
18-May-2011	Leslie MacPhie	SNC-Lavalin	Oak Island Treasure	Annual Banquet	63

### **Membership (and Corporate Sponsorship)**

The Ottawa Geotechnical Group currently has 148 paid members, 28 sponsor members and 32 student members. Regular members pay an annual membership fee of \$20, and receive special member rates to attend our monthly events. Student members do not pay an annual fee, and are offered subsidised rates to attend the events. As in past years, our corporate sponsors have very generously supported the local organization. The donations from our sponsors help to defray the costs of engaging speakers and the costs of our meeting rooms. Our corporate sponsors for 2010-2011 include:

DYWIDAG-Systems International Canada	Itech Environmental Remediation
Explotech Engineering	Maccaferri
George Downing Estate Drilling	Marathon Drilling
George W. Drummond	Maxxam Analytics
GeoSolv Design/Build	OGS
Geosynthetic Systems	Paracel Laboratories
GKM Consultants	Quantum Murray LP
	USL-1 Underground Service

The following sponsors generously supported our annual banquet event of May 18, 2011:

AME Materials Engineering	Groupe Qualitas
DYWIDAG-Systems International Canada	Marathon Drilling
Environmental Solutions Remediation Services	Maxxam Analytics
Exp (Gatineau and Ottawa Offices)	McIntosh Perry Consulting Engineers
Geofirma Engineering	Paracel Laboratories
GeoSolv Design/Build	Paterson Group
Geosynthetic Systems	Quadrivium Conseil
Golder Associates	Remisz Consulting Engineers
	WESA

### **Honors and Awards**

OGG has been organizing annual student competitions in the region since 1976, this being the 35<sup>th</sup> year of the competition. The competitions have traditionally had participation by students from four universities including Carleton University and the University of Ottawa from Ottawa and Queen's University and the Royal Military College from Kingston. The events have been hosted by one of the universities with locations alternating each year between Kingston and Ottawa. In 2009, the OGG created a plaque with names of the student winners of each yearly competition. The plaque/award is named after Mike Bozozuk, and is called:

Michael Bozozuk Student Forum Award  
Awarded Annually by the Ottawa Geotechnical Group  
For Excellence in Graduate Student Research in Applied Earth Sciences

The plaque is passed on to the latest winning student for display at his/her university for the year. This year's student winner is Kazi Rahman from Queens University.

### **Meetings**

The 2010-2011 executive committee meetings held are as follows:

Aug. 11, 2010	Nov. 10, 2010	Feb. 8, 2011
Sept. 8, 2010	Dec. 15, 2010	May 4, 2011
Oct. 13, 2010	Jan. 12, 2011	June 8, 2011

### **Financial Status**

The Ottawa Section is in a healthy state financially. The source of revenue is from paid memberships and corporate sponsorships. Currently the group has an overall balance of about \$35,000 which consists of

funds held in bank accounts and short term GICs and a loan to the Canadian Foundation for Geotechnique. The group has a general goal of trying to run a balanced budget year to year on the lunchtime speakers and annual banquet while using the additional funds for special projects and the opening event of the year (September).

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## **Section Ouest du Québec - Robert P. Chapuis, Section Director** **Rapport d'activité – Du 1er juillet 2010 au 30 juin 2011**

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### **Introduction**

Ce rapport intérimaire résume les activités de la Section Ouest du Québec de la Société canadienne de géotechnique, pour la période s'échelonnant du 1<sup>er</sup> juillet 2010 au 30 juin 2011. La section comprend des membres de partout dans l'Ouest du Québec, tout particulièrement des régions de Montréal, de Sherbrooke et de Drummondville. Plusieurs activités couronnées de succès ont été organisées par le Comité exécutif : sept présentations, un concours pour les étudiants, un atelier de quatre jours et un cours intensif d'une durée d'une journée. On peut lire un rapport détaillé des activités de la section ci-dessous.

### **Comité exécutif**

Le Comité exécutif 2010-2011 de la Section de l'Ouest du Québec est composé des membres suivants :

Président :	Sébastien Dubeau (Ville de Montréal)
Vice-président :	Christine Vigneault (Qualitas)
Trésorier :	Louis Maure (Inspec-Sol)
Secrétaire :	Lincar Pedroni (École Polytechnique)
Programme :	Mélissa Ruel (Qualitas)
Communications :	Simon D. Arseneault (Inspec-Sol)

### **Activités**

- Le 22 septembre 2010, Sébastien Bisson a donné une conférence intitulée « Details on design and construction of a highway embankment over an old waste site », sur la conception et la construction d'un remblai d'autoroute par-dessus un ancien dépotoir.
- Le 4 octobre 2010, Jean-François Semblat, Ph.D., du Laboratoire Central des Ponts et Chaussées de Paris, a donné une conférence intitulée « Amplification of seismic waves in soils: linear and non-linear responses and interactions with structures », sur les réactions linéaires et non linéaires de l'amplification des ondes sismiques dans les sols, ainsi que de leurs interactions avec les structures.
- Le 18 octobre 2010, la section a accueilli la conférencière de la Tournée de conférences pancanadiennes. Dans sa conférence intitulée « The Rüdlingen landslide experiment », Sarah Springman, Ph.D, de l'ETHZ de Zurich, a traité de l'expérience menée à Rüdlingen sur les glissements de terrain.
- Le 25 janvier 2011, Marc Smith, d'Hydro-Québec, a donné une conférence intitulée « Detection of infiltrations in earth dams and their foundations », sur le repérage des infiltrations dans les barrages en terre et leurs fondations.
- Du 14 au 17 février 2011, Geo-Slope International a présenté deux cours intensifs sur Geostudio 2007. Deux (2) groupes de 30 personnes ont assisté à cette activité, qui a eu lieu à Montréal.
- Le 24 février 2011, six étudiants diplômés ont participé à l'édition annuelle du Concours Branko Ladanyi. Les participants ont présenté des conférences d'une durée de 20 minutes sur leurs recherches dans le domaine de la géotechnique dans quatre universités. Un comité de cinq ingénieurs chevronnés appartenant à des entreprises privées a sélectionné Faustin Saleh Mbemba, de l'École Polytechnique de Montréal, à titre de gagnant en 2011. Faustin présentera son article lors de la conférence de la SCG de Toronto, en septembre prochain.
- Le 4 avril 2011, la section a accueilli un groupe d'étudiants de l'École Polytechnique (en génie géologique) qui présentaient les résultats et l'observation de leur projet « Nouvelle-Zélande 2010 », sur les défis géotechniques des régions séismiques et des projets en géothermie.
- Le 27 avril 2011, la section a accueilli le conférencier de la Tournée de conférences pancanadiennes.



Dans sa conférence intitulée « Geotechnical performance of a deep geological repository for nuclear waste », Mark Diederichs a traité du rendement géotechnique d'une aire de stockage permanent de déchets nucléaires enfouis.

- Le 14 juin 2011, lors du banquet annuel, R.W. Boulanger a présenté la conférence intitulée « Geotechnical aspects of the recent Tohoku earthquake, Japan », sur les particularités géotechniques du récent tremblement de terre de la région du TÔhoku, au Japon.
- Le 15 juin 2011, R.W. Boulanger et I.M. Idriss, de la University of California à Davis, ont présenté un atelier sur la liquéfaction. Tenue à Montréal, cette activité a réuni 57 personnes.
- Chaque activité a réuni entre 30 et 65 membres; plus de 65 membres ont assisté au banquet annuel.
- Un Comité d'organisation du groupe de Montréal, présidé par Mario Ruel, s'affaire à préparer la conférence annuelle de 2013.

### Membres et commandites de sociétés

La Section de l'Ouest du Québec compte **160** membres cotisants, qui sont des particuliers et des entreprises. Au cours des cinq dernières années, le nombre d'adhésions a augmenté à un rythme constant. On demande aux membres de verser une petite contribution financière, afin d'assumer les frais des conférenciers invités et les dépenses connexes. Plusieurs de ces membres sont également membres de la Société canadienne de géotechnique nationale.

Tout comme par le passé, *Hydro-Québec* a généreusement appuyé l'organisation locale, en fournissant une salle de conférences où la plupart des activités ont eu lieu.

### États financiers

#### Dépenses

- Conférences (dîners, conférenciers, etc.)	3 895,76 \$
- Activités de fonctionnement de la section	1 730,40 \$
- Prix Branko Ladanyi de 2010 (conférence dépenses du gagnant)	1 827,32 \$
- Cours intensif (coûts de l'exercice 2009-2011, reportés)	6 312,18 \$
- Cours intensif	44 066,19 \$
- Banquet annuel	9 275,82 \$
- Projet sur la Chine	1 000,00 \$
TOTAL des dépenses :	68 107,67 \$

#### Revenus

- Cotisations des membres	3 405,00 \$
- Cours intensif	63 284,00 \$
- Banquet annuel	1 356,34 \$
TOTAL des revenus :	68 045,34 \$
Montant total en banque :	21 919,57 \$

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## **Western Quebec Section - Robert P. Chapuis, Section Director**

### **Report of Activities - July 1, 2010 to June 30, 2011**

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### Introduction

This report summarizes the activities of the Western Quebec Section of the Canadian Geotechnical Society, for the period from 01 July 2010 – June 30, 2011. The group has members from across Western Quebec, especially from the Montreal, Sherbrooke and Drummondville areas. Several successful activities were organized by the executive committee: 7 presentations, one student competition, a four-day workshop and a one-day intensive course. A detailed report from the Section is provided below.

## Executive Committee

The 2010-2011 Executive Committee of the Western Quebec Section consists of the following members:

Chair:	Sébastien Dubeau (City of Montreal)
Vice-Chair:	Christine Vigneault (Qualitas)
Treasurer:	Louis Maure (Inspec-Sol)
Secretary:	Lincar Pedroni (Polytechnique)
Programme:	Melissa Ruel (Qualitas)
Communications:	Simon D. Arseneault (Inspec-Sol inc.)

## Activities

- On September 22, 2010, Sebastien Bisson gave a lecture on "Details on design and construction of a highway embankment over an old waste site".
- On October 4, 2010, Dr. Jean-François Semblat of LCPC, Paris, presented a lecture on "Amplification of seismic waves in soils: linear and non-linear responses and interactions with structures".
- On October 18, 2010, the Section welcomed the Cross Canada Lecture Tour given by Dr. Sarah Springman of ETHZ, Zurich, on "The Rüdlingen landslide experiment."
- On January 25, 2011, Marc Smith of Hydro-Quebec gave a lecture on "Detection of infiltrations in earth dams and their foundations".
- On February 14-17, 2011, Geo-Slope International presented two short courses on Geostudio 2007. Two (2) groups of 30 persons attended this activity held in Montreal.
- On February 24<sup>th</sup>, 2011, six graduate students participated in the annual Branko Ladanyi student competition. They presented 20-min conferences on their geotechnical research at four universities. A committee of five senior engineers from private companies has selected Faustin Saleh Mbemba from Polytechnique Montreal as the 2011 winner. Faustin will present his paper at the CGS Toronto Conference next September.
- On April 04, 2011, the Section welcomed a group of Polytechnique students (geological engineering) who presented the results and observation of their project "New-Zealand 2010", about geotechnical challenges in seismic areas, and geothermal projects.
- On April 27, 2011, the Section welcomed the Cross Canada Lecture presented by Mark Diederichs presented "Geotechnical performance of a deep geological repository for nuclear waste".
- On June 14, 2011, R.W. Boulanger at the annual banquet will present "Geotechnical aspects of the recent Tohoku earthquake, Japan".
- On June 15, 2011, R.W. Boulanger and I.M. Idriss, University of California at Davis, presented a Workshop on Liquefaction. 57 persons attended this activity held in Montreal.
- Each activity gathered 30 to 65 members; the annual banquet was attended by over 65 members.
- An organization committee of the Montreal Group, chaired by Mario Ruel, is active in preparing the 2013 annual conference.

## Membership and Corporate Sponsorship

The Western Quebec Section is composed of 160 paid members, combination of individual members and companies. The membership has steadily increased for the past five years. A small financial support is asked of members in order to cover the costs of guest speakers and related expenses. Among these members, several are also members of the national Canadian Geotechnical Society.

As in past years, Hydro-Quebec generously supports the local organization by providing a conference room for most activities.

## Financial status

Expenses:

- Conferences (lunch, speakers, etc.)	3 895.76 \$
- Section operations	1 730.40 \$
- 2010 Branko Ladanyi prize (winner expenses, Calgary conference)	1 827.32 \$
- Intensive course (year 2009-2011 reported costs)	6 312.18 \$
- Intensive course	44 066.19 \$
- Annual banquet	9 275.82 \$
- China Project	1 000.00 \$

	TOTAL Expenses:	68 107.67 \$
Revenues:		
- Membership income		3 405.00 \$
- Intensive course		63 284.00 \$
- Annual banquet		1 356.34 \$
-		
	TOTAL Revenues:	68 045.34 \$
	Total amount in bank:	21 919.57 \$

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**Section Est du Québec - Didier Perret, Directeur régional**  
**Rapport d'activités - 1er juillet 2010 au 30 juin 2011**

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### Introduction

Ce rapport présente un bilan sommaire des différentes activités organisées ou parrainées par la section régionale de l'Est du Québec durant la période allant du 1<sup>er</sup> juillet 2010 au 30 juin 2011. La section de l'Est du Québec regroupe une petite communauté d'une trentaine de membres cotisants de la Société canadienne de géotechnique, principalement du secteur privé et du milieu universitaire. La communauté d'intérêt est cependant significativement plus large, comme l'atteste notre liste de diffusion (plus d'une centaine d'adresses).

### Comité exécutif

Le comité est formé, pour l'année 2010-2011, des personnes suivantes :

Directeur: Didier Perret (Ressources naturelles Canada)

Président : Denis Lessard (Ministère des Transports du Québec)

Vice-président : Jean Côté (Université Laval)

Trésoriers : Alexis Fortin et Pascal Locat (Ministère des Transports du Québec)

Membre de liaison étudiante : Arianne Locat (université Laval)

Membres : Julie Dostie (LVM-Technisol), Kamel Hamouche (Inspec-Sol), Olivier Juneau (LEQ), Simon Malenfant (LVM-Technisol), Julie Therrien (Ministère des Transports du Québec)

Conseillers : Denis Demers, Janelle Potvin (Ministère des Transports du Québec)

### Activités

Nos activités se subdivisent en deux catégories, les conférences qui sont proposées régulièrement, et les ateliers de formation, organisés à l'occasion, généralement en réponse aux demandes spécifiques de la communauté géotechnique régionale. En général, 15 à 25 personnes assistent aux conférences.

Lorsque le sujet est d'un intérêt particulier pour la profession, nous pouvons cependant avoir une cinquantaine de personnes.

Conférencier	Affiliation	Titre de la présentation	Date
Sarah Springman	Eidgenössische Technische Hochschule – ETH Zürich, Suisse	The Rüdlingen Landslide Experiment (Tournée pancanadienne de géotechnique)	19-10-2010
Mourad Karray	Département de génie civil, Université de Sherbrooke, Québec	La mesure de la vitesse de propagation des ondes de cisaillement en géotechnique	28-02-2011
Mark Diederichs	Dept. of Geological Sciences and Geological Engineering, Queen's University, Ontario	Laser Scanning (Lidar) for Rockmass Characterization on Slopes and in Tunnels (Tournée pancanadienne de géotechnique)	27-04-2011

Jacques Locat	Groupe SNC-Lavalin, Qualitas, Québec	Comportement des pieux dans les argiles	28-06-2011
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### **Membres et adhésion à la Société**

Les conférences-midi que nous organisons sont proposées gratuitement et il n'est pas nécessaire d'être membre de la Société pour y assister. Aucune cotisation annuelle locale n'est par ailleurs demandée. Cela permet de promouvoir la formation continue en géotechnique, et contribue à favoriser l'adhésion à la SCG.

### **Réunion du comité**

Le comité exécutif se réunit en moyenne une ou deux fois par trimestre, ou encore à l'occasion lorsque l'agenda le justifie.

### **Statut financier**

Le budget en fin d'année est d'environ 2500\$. Nos revenus proviennent essentiellement des bénéfices réalisés lors du congrès annuel de la Société à Québec en 2004.

### **Autres informations**

M. Jean Côté, professeur de géotechnique au département de génie civil de l'université Laval, a accepté d'assurer la vice-présidence de notre section régionale. Nous lui souhaitons bienvenu.

Après de longues années de dévouement, M. Paul Flon, qui a agit comme trésorier de la section régionale, nous quitte pour de nouveaux horizons. La section régionale le remercie très chaleureusement et lui souhaite une excellente retraite.

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## ***Eastern Quebec Section - Didier Perret, Regional Director Report of Year-End Activities – July 1, 2010 to June 30, 2011***

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### **Introduction**

This report presents a summary of the activities of the Eastern Quebec Section of the Canadian Geotechnical Society for the period from July 1, 2010 to June 30, 2011. The Eastern Quebec Section gathers a small community of about 30 members of the Canadian Geotechnical Society, mainly from the private sector and universities. However, the community interested in geotechnical and geological engineering is significantly larger, as evidenced by our mailing list which has more than one hundred entries.

### **Executive Committee**

For the year 2010-2011, the committee consists of the following members:

*Regional Director:* Didier Perret (Natural Ressources Canada)

*Chair:* Denis Lessard (Ministère des Transports du Québec)

*Vice-Chair:* Jean Côté (Laval University)

*Treasurers:* Alexis Fortin, Pascal Locat (Ministère des Transports du Québec)

*Student Committee:* Arianne Locat (Laval University)

*Members:* Julie Dostie (LVM-Technisol), Kamel Hamouche (Inspec-Sol), Olivier Juneau (LEQ), Simon Malenfant (LVM-Technisol), Julie Therrien (Ministère des Transports du Québec)

*Advisors:* Denis Demers, Janelle Potvin (Ministère des Transports du Québec)

### **Activities**

Two types of activities are organized by the section. Lunch-time and occasionally evening lectures are proposed on a regular basis. Workshops are organized on an ad-hoc basis to respond to a specific need expressed by the regional geotechnical community. Usually, 15 to 25 persons attend lectures proposed by the regional section, sometimes more (around 50) when the lecture topic is of a special interest to the profession.

Speaker	Organization	Conference Title	Date
Sarah Springman	Eidgenössische Technische Hochschule – ETH Zürich, Suisse	The Rüdlingen Landslide Experiment (Cross-Canada Lecture Tour)	2010-10-09
Mourad Karray	Département de génie civil, Université de Sherbrooke, Québec	La mesure de la vitesse de propagation des ondes de cisaillement en géotechnique	2011-02-28
Mark Diederichs	Department of Geological Sciences and Geological Engineering, Queen's University, Ontario	Laser Scanning (Lidar) for Rockmass Characterization on Slopes and in Tunnels (Cross-Canada Lecture Tour)	2011-04-27
Yves Robert	Groupe SNC-Lavalin, Qualitas, Québec	Comportement des pieux dans les argiles	2011-06-28

### **Membership**

Attendance to lectures is free and open to all, and no annual fees are asked for local membership. One of our most demanding challenges is to incite young professionals to become members and to renew membership every year after.

### **Meetings**

The executive committee meets once or twice a quarter. When it is required, additional meetings are called on an ad-hoc basis.

### **Financial status**

The year-end budget is about \$2,500. Revenues mainly come from profits made at the 2004 CGS Annual Conference in Quebec City.

### **Additional Information**

*The regional section warmly welcomes Jean Côté, Professor of geotechnical engineering at Laval University. Jean has accepted to hold the position of vice-chair.*

After many years of enthusiastic volunteer work, Paul Flon, our former section treasurer, has left the executive committee for new horizons. We wish him all the best for his retirement.

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## ***New Brunswick - Adrian Thompson, Section Director Report of Activities - July 1, 2010 to June 30, 2011***

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### **Introduction**

This interim report is a summary of the activities of the New Brunswick Geotechnical Group of the Canadian Geotechnical Society, for the period from 1 July 2010 – 30 June 2011. The group has active members from across New Brunswick.

### **Executive Committee**

The 2010-2011 Executive Committee of New Brunswick Geotechnical Group consists of the following members:

Chair: Vacant

### **Update**

Due to demanding job responsibilities not much time has been available for this position. With a lack of help, it has been very difficult to find time to fundraise and plan events. Therefore, nothing has been completed.

I had a phone conversation with Victor Sowa in January when I had planned to step down. He convinced me otherwise, but I am still in the process of contacting others to get assistance with this society.

### **Meetings**

N/A

### **Financial status**

As of April 21, 2011, \$40.99

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## ***Nova Scotia Section - Anthony Urquhart, Section Director Report of Activities July 1, 2009 to June 30, 2010***

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### ***Introduction***

The Nova Scotia Chapter of the Canadian Geotechnical Society (CGS) consists of approximately 27 members.

### ***Executive Committee***

The 2010-2011 Executive Committee of the Nova Scotia Chapter consists of the following members:

Chair:	Anthony Urquhart (BGC Engineering Inc., Halifax)
Vice-Chair:	James Mitchell (Stantec, Dartmouth)
Treasurer:	Scott Munro (TerrAtlantic, Dartmouth)
Past-Chair:	Dmitry Garagash (Dalhousie University, Halifax)
Members-at-Large:	Glenn Graham (Conquest Engineering, Bedford)
Advisor:	Craig Lake (Dalhousie University, Halifax)

### ***Activities***

Activities began in November 2010 with the appointment of a new executive committee. A mandate was agreed upon to encourage growth in CGS membership by reaching out to inactive members and bringing in new members with the primary goal set as promoting geotechnique in the region.

Cross Canada Lecture Tour – April 26, 2011. Approximately 25 participants attended at Dalhousie University. Dinner was provided and included two other presentations prior to the CCLT.

1. Laser scanning (LiDAR) for rockmass characterization on slopes and in tunnels – CCLT Mark Diederichs
2. Uncovering the surficial geology of metro-Halifax using LiDAR bare-earth imagery – Dan Utting
3. Experiences with Tunnel Analysis and Design – Andrew Corkum

### ***Meetings***

The 2010-2011 meetings held to date were as follows:

November – Meeting of the New Executive Committee, establish a strategy for promoting geotechnique through presentations (in conjunction with the CCLT), and one short course per year.

January – Discussed the upcoming CCLT and promoting additional speakers to make into a larger event.

March – Discussed potential venue for the CCLT and an action plan for attracting attendance.

April – Discussed Final preparations for CCLT, April 26 at Dalhousie University

May – Discussed feedback from members on the recent CCLT and promoting participation for next year.

### ***Financial status***

\$22,900.59

### **Additional Information**

Agreed to sponsor a graduate student for the 2011 Pan-Am Conference in Toronto. Need to establish criteria for awarding.

Agreed to donate \$2,000 to the Canadian Foundation for Geotechnique.

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## **St. John's Newfoundland Chapter - Arash Zakeri, Section Director Report of Activities - July 1, 2009 to June 30, 2010**

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### **Introduction**

This report summarizes the activities of the St. John's Geotechnical Group of the Canadian Geotechnical Society, for the period from 01 July 2010 – 30 June 2011. The group has 10 active and 3 inactive members in Newfoundland, mainly from the St. John's area. In September 2010, Mr. Sterling Parson's tenure as the Chair of the Executive Committee (Section Director) finished and I was appointed as the new Section Director. There is limited interest within the local geotechnical and geological community about the CGS activities. However, I am hoping that this will change as the province has started two major civil projects – Hebron GBS and Lower Churchill Hydroelectric Dam. We have successfully organized three well-attended presentations in this season this year. Details are provided below.

### **Executive Committee**

The 2010-2011 Executive Committee of the St. John's Geotechnical Group consists of the following members:

Chair:	Arash Zakeri (September 2010 – Present)
Treasurer/Secretary:	Amy Copeland (Stantec, St. John's)
Past-Chair:	Sterling Parsons (Stantec, St. John's)
Student Liaison:	Ken Chi (C-CORE/Memorial University (MUN))

### **Activities**

September 24, 2011 – Talk by Dr. Ed Clukey, BP America, Titled, "Offshore Geotechnical Engineering, New Frontiers" – 25 people attended, mainly from C-CORE and MUN

November 2, 2011 – Talk by Masoumeh Saiyar, C-CORE Postdoctoral Fellow, graduated from Queens University, titled, "Stresses on Pipelines in Instable Slopes. – 15 people attended, mainly from C-CORE and MUN

March 18, 2011 - Talk by Dr. Andy Take, "The unsaturated behaviour of geosynthetic clay liners under an exposed geomembrane". The talk is about the results of field and laboratory work conducted the Queen's University.

### **Financial status**

Current bank account balance is \$632.80. We have recently received an additional \$250 from SNC Lavalin and \$250 from C-CORE, and are hoping to receive \$250 from Stantec. This would make the bank account balance \$1,382.80. The funds will be used to provide partial funding for students presenting paper at the 2011 Pan-Am GeoToronto and other activities.

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**Computing Committee - Peijun Guo, Chair**  
**Report of Activities – July 1, 2010 to June 30, 2011**

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### **Introduction**

The Computing Committee has identified several potential areas for the future activities, primarily focusing on the promotion of numerical modelling and its application in geotechnical engineering practice. These activities include (a) continuing involvement in the CGS annual conference to volunteer in paper review or organizing special sessions, and (b) offering short courses on numerical modelling with geotechnical engineering applications or other relevant topics. Short courses will be offered in different possible formats. In addition, the Executive Committee have changed since two past Committee members have left the country. New members will be invited to join the future activities of the committee.

### **Executive Committee**

The 2010-2011 Committee of the Computing Committee consists of the following members:

Chair: Peijun Guo (McMaster University)  
Past-Chair: Tai Wong (O'Connor Associates Environmental Inc., Calgary)  
Dave Chan (University of Alberta)  
Murray Fredlund (SoilVision, Saskatoon)  
Denis Leboeuf (Laval University)  
Paul Simms (Carleton University)  
Dieter Stolle (McMaster University)  
Richard Wan (University of Calgary)

It has been discussed that new members will be added to the Committee in the near future. Recommendations have been required from committee members and contacts have been made with potential candidates.

### **List of Activities**

Committee members are involved in reviewing abstracts and papers for the 14th Pan-American Conference (PanAm 2011) on Soil Mechanics and Geotechnical Engineering (PCSMGE) and the 64th Canadian Geotechnical Conference (CGC) that will be held in Toronto from October 2 to 6, 2011. Dr. Peijun Guo is one of the Country Chairs helping the abstract and paper review.

Prior to the PanAm 2011 conference, a one-day short course will be organized by the Computing Committee and the Hydrogeology Division on numerical modelling and its application in geotechnical practice focusing on how to obtain meaningful results. The instructors of the short course include Murray Fredlund, Dieter Stolle, Tai Wong and Christopher Nevill. The topics of the short course are summarized as follows:

- modelling and simplifications
- fundamentals of finite element method : application of virtual work; boundary conditions; errors and convergence and solution quality; element selection – constraints, limitations, locking, spurious modes.
- Transient and dynamic analysis: water flow in soil; creep and consolidation; two-phase wave propagation – mixed methods; treatment of boundaries; initial conditions.
- Nonlinear analysis: Nonlinear constitutive models, solution strategies (including initial stiffness and tangential procedures, numerical stability considerations, relaxation techniques).
- Common mistakes and how to avoid them in numerical modelling
- Cases studies from engineering practice.

If this short course is successful, the Computing Committee would like to organize other short courses on selected topics in the future to promote numerical modelling in geotechnical engineering practice. In addition to communications via email to discuss the activities of the Committee, a Computing Committee meeting is scheduled during the PanAM 2011 to discuss in details the future activities.



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**Education Committee - Greg Siemens, Chair**  
**Report of Activities July 1, 2010 to June 30, 2011**

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**Introduction**

The Education Committee has been continuing core activities since the 2010 conference in Calgary. A final report for the previous year was provided by Dharma Wijewickreme (Chair) for the board meeting at the 2010 annual conference updating current tasks at that time. This report provides a summary of ongoing initiatives and activities completed from July 01, 2010 to June 30, 2011.

**Executive Committee**

The current committee members are:

Chair: Greg Siemens  
Past-Chair: Dharma Wijewickreme  
Members: James Blatz  
Kent Bannister - Conference Co-Chair (cYGEC)  
Corey Froese  
Jocelyn Grozic  
Kathy Kalenchuk  
Jinyuan Liu  
Ian Moore  
Jit Sharma  
Nicholas Vlachopolous Chair (Student Competitions)  
Paul Simms – Chair (CFG Fellowship Selection)  
Graeme Skinner

**List of Activities**

**1. CGS Student Competition –**

2011 Competition: Another successful Student Competition has been completed. The Call for Submissions for the 2011 CGS Student Competitions was sent out in early February with a due date of 21 May 2011. The judging has been completed and the winners announced. Once again the Graduate Student Presentation Award winner will be invited to present at the Conference in Fall.

Following discussions at the Education Committee meeting in Calgary a new student competition is being initiated. It was noted that the number of submissions in recent undergraduate competitions has remained stagnant and a new competition could help to engage students to Geotechnics at the undergraduate level. Holding a new undergraduate construction competition was discussed and explored however it was decided to hold off for this year. For the purpose of expanding student interest in geotechnical engineering revisiting the student competitions will be further discussed at the upcoming conference.

2010 Competition: A total of 16 submissions were received including 11 Graduate Presentations, 4 Undergraduate Group Reports and 3 Undergraduate Individual Reports.

The 2010 CGS Student Competition winners are:

Graduate Student Presentation Award

1st Prize Saman Zarnani, “Application of EPS Geofoam for Seismic Buffers in Rigid Retaining Walls” Department of Civil Engineering, Royal Military College of Canada, Kingston; Advisor, Dr. Richard Bathurst.

2nd Prize Michael Van Helden, “Enabling Probabilistic Modelling in Mainstream Practice Through Improved Simulation Techniques” Department of Civil Engineering, University of Manitoba, Winnipeg; Advisor, Dr. James Blatz.

#### Undergraduate Student Report (Individual)

- 1st Prize Isaac Dennett, "Evaluation of Soil Nails for Riverbank Stabilization" Department of Civil Engineering, University of Manitoba, Winnipeg; Advisor, Dr. James Blatz.
- 2nd Prize Eric Wolinsky, "Application of Digital Signal Processing to the Measurement of Landslide Acceleration Using PIV Image Analysis" Civil Engineering, Queen's University, Kingston; Advisor, Dr. Andy Take.

#### Undergraduate Student Report (Group)

- 1st Prize Catherine Hynes, Kevin Mathison, Charlie Patrick, Matthew Weisbrod, "Design of Landslide Mitigation Alternatives for Control Section 56-02-40" Department of Civil & Geological Engineering, University of Saskatchewan, Saskatoon; Advisor, Dr. Jitendra Sharma.
- 2nd Prize Jennifer Brown, Candice Cooney, "Mapping Heat Transfer of Gas and Leachate Production at Closed Landfill Sites" Department of Geological Sciences and Geological Engineering, Queen's University, Kingston; Advisor, Mr. Steven Rose.

### **2. 3<sup>rd</sup> cYGEGC –**

The 3rd cYGEGC was held on Sept 17 to 19th at the Bayshore Inn in Waterton Park following the Calgary 2010 Conference. Attendance at the conference was lighter than originally hoped for with only 19 attendees. Highlights included a tour of the Frank Slide and keynote presentations from Michel Aubertin, Joe Carvalho, Suzanne Lacasse, Ken Skafffeld, and Andy Take. Delegates and keynotes were also able to enjoy some of the natural scenery of the area through a boat tour of Waterton Lake. As a result of strong sponsorship and some unanticipated support from the Calgary Conference Organizing Committee we are projecting a profit of about \$8000. More importantly, attendees enjoyed and profited from the advice given in the keynote presentations and the opportunity to meet colleagues from across Canada. Several delegates have volunteered to join the organizing committee for a 4th cYGEGC in 2013.

A final report for the conference is presently being prepared.

(as per information provided by Kent Bannister, Conference Co-Chair).

### **3. Canadian Foundation for Geotechnique National Graduate Scholarship**

The Canadian Foundation for Geotechnique National Graduate Scholarship, valued at \$5,000, was established by the Canadian Foundation for Geotechnique in 2007 on the occasion of the 60th Canadian Geotechnical Conference. CGS Education Committee is administering the scholarship.

2010 Scholarship: For the 2010 competition, the number of applicants was down from 9 to 5, though the quality of the applicants remained high. The winner, Nelson Ferreira from the University of Manitoba, was determined by overwhelming majority (only one dissenting vote) by the selection committee. Nelson was a very deserving candidate, with a strong academic record, substantial consulting experience, and a record of service to the geotechnical community. The members of the selection committee were Ian Fleming from the University of Saskatoon, Murray Grabinsky from the University of Toronto, Mamadou Fall from the University of Ottawa, Catherine Mulligan from Concordia, and Rodney McAfee a practitioner from Nova Scotia. The Chair of the committee was Paul Simms from Carleton University.

2011 Scholarship: A call for nominations was issued in March 2010 from the CFG. A reminder was sent in May 2011. The selection committee will again be chaired by Dr. Paul Simms at Carleton University in Ottawa. No submissions were received by the deadline. A revised deadline for nominations was extended to 15 July 2011, and nominations were received. The scholarship will again be awarded at the Canadian Geotechnical conference in the fall.

In light of the somewhat disappointing participation in the competition this year, and after discussion between the committee Chair, CFG, and the Education Committee, it was decided to more aggressively

promote the scholarship, and issue more frequent reminders to University departments and individual faculty members.

(as per information provided by Paul Simms, Chair, CFG Fellowship Selection Committee).

#### **4. Webinars**

The CGS has recognized that the use of web based seminars (Webinars), currently used by a number of learned societies, should be strongly considered as a platform for dissemination of technical information and sharing knowledge through special seminars, lectures, etc. The feasibility of webinars is currently in the process of being assessed by Greg Siemens (Chair, Education Committee) and Doug Stead.

#### **Financial Status**

The Education Committee has as separate line item in the CGS budget with the amount of \$3,501.23.

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### ***Heritage Committee - Jim Graham, Chair*** ***Report of Activities – July 1, 2010 to June 30, 2011***

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#### **Introduction**

The Heritage Committee manages archival and heritage material on behalf of the Canadian Geotechnical Society. Because the Society has no permanent office of its own, the Board of Directors in 2004 instructed the committee to manage a collection of 'virtual' archives on the CGS website at <http://www.cgs.ca/heritage-archive.php?lang=en>. The Committee arranges for scanning and uploading of material of general interest. It also provides lists of sources of archival materials, for example in national and provincial archives, and in university libraries.

Information like annual reports, and minutes of annual meeting of the committee are made available at <http://www.cgs.ca/committees.php?lang=en>.

#### **Executive Committee**

The 2010-2011 Heritage Committee consists of the following members:

Chair: Jim Graham (until 31 December 2011)  
Vice-Chair: Mustapha Zergoun (Chair-Elect)

Committee members and other interested CGS members:

David Cruden, David Devenny, Richard Jackson, Jim Graham (Chair), Jørn Landva, Lynden Penner, Ken Skafffeld, Mahdi Taiebat, Sai Vanapalli, Doug VanDine, Brian Williams, Rick Yoshida, Mustapha Zergoun.

#### **Affiliations with Other Organizations**

The Heritage and Archives Committee of the Engineering Institute of Canada.

#### **Membership Information**

None. (The Society's Committees do not register individual members.)

#### **Financial Status**

The Heritage Committee has no financial assets. It relies mainly on volunteer activities and donated support. Occasional calls may be made on the Society's general revenues.

#### **List of Recent Activities**

- The annual meeting of the Heritage Committee was held at the CGS Conference in Calgary in September 2010. Minutes of the meeting were prepared and circulated. They will be made available at <http://www.cgs.ca/committees.php?lang=en>

- Preparation of a collection of photos and accompanying description of the collapse of the Peace River Bridge in 1957 – D. Cruden. The file was sent to the CGS Administration in May 2011.
- Proceedings of early conferences – Thanks to excellent support from our colleagues at the University of Alberta, and the Geotechnical Society of Edmonton, all but one of the early proceedings of annual Canadian Geotechnical Conferences have now been recovered and scanned. The conferences date back to 1947. (We believe that the missing conference was the 6<sup>th</sup> ICSMGE in Montreal in 1965 and steps are now being taken to scan these proceedings.) Special thanks go to Sally Petaske and Ashlee Ann Courts who managed and scanned the conference volumes at the University of Alberta. The files have been sent to the CGS Administrator for uploading at the Member Section of the new website <http://www.cgs.ca/members.php?lang=en>
- Sai Vanapalli and Siva Sivathayalan coordinated an initiative in Ottawa on preparing a list of recommended reading for projects on Champlain Sea (Leda) clay. This is available at <http://www.cgs.ca/recommended-reading.php?lang=en>.
- Richard Jackson has been working on getting papers from Frank Patton safely archived and access information made available on the website. The papers deal with his work with D.U.Deere at the University of Illinois on slope stability and his incorporation of the concepts of groundwater flow system theory.
- Similarly, Paul Karrow has arranged for Legget/Karrow papers from the book *Handbook of Geology in Civil Engineering* to be archived and the University of Ontario Institute of Technology.
- Possibly in the next one or two years, Michel Aubertin will begin developing information on contributions from Quebec to geotechnology in Canada.
- Mustapha Zergoun is working with a retired geotechnical engineer from BC Hydro to develop information on Hydro projects. He is also initiating a set of questions to ask 'seasoned' geotechnical engineers about their early years in the profession. It is anticipated that replies will be posted online.
- David Cruden and Jørn Landva report on the origins of Thomas Roy - "The early life of Thomas Roy is described in Legget's 1988 paper. Roy's subsequent movements are still unclear but there are references to a Thomas Roy active as a surveyor in the Miramichi forests in the 1810s and in Ontario in the 1830s as a civil engineer from Scotland. It is possible that as the Maritimes timber trade declined Roy moved back to his family in Scotland. This investigation requires genealogical and archival skills..."
- On Geoff Meyerhof, Jørn Landva writes - "A total of 45 banker's boxes of documents from Dr. Meyerhof's personal and university office libraries has been donated to the Dalhousie University Library Archives by the Dept of Engineering and by Dr. Meyerhof's son (Tom Meyerhof). The documents were sorted and partially catalogued prior to donation or by the Library Archives. An effort by Paul Green and Jørn Landva to further define the contents of the individual boxes is now nearly complete. The documents include originals, reprints, drafts, technical notes, correspondence, and construction drawings and sketches. Information will be prepared for the CGS website which outlines access to the Meyerhof collection. Some of the more interesting or relevant documents could be scanned for CGS if they're of interest, subject to getting permission from Dalhousie University.
- At the time of writing, Ken Skaffeld is finalizing captions for a photographic collection from the failure and righting of the Transcona grain elevator in Winnipeg. This will be finalized and uploaded in June 2011.
- Additional obituary notices have been uploaded at <http://www.cgs.ca/lives-lived.php?lang=en> as they became available.
- Doug VanDine provided papers on the early years of engineering geology and the geotechnical profession in British Columbia and Canada.
- Mustapha Zergoun provided a personal list of "Top 10" heritage geotechnical papers from British Columbia".

### **Additional Information**

Ongoing work by members of the Committee includes the following projects. Each member of the committee and other interested members of the CGS aim at completing one project per year. Additional or alternative projects will also be welcomed.

- a) Doug Stead – initial contact has been made with Lynden Penner regarding the contributions of J.D. Mollard to terrain analysis using remote sensing.

- b) Mahdi Taiebat – initial contacts have been made to develop a record of early work on numerical analysis in geotechnical engineering in Canada – Milos Novak, Dan Eisenstein, Emil Frind (Welland Ship Canal, etc), Liam Finn, Peter Byrne, etc., perhaps with assistance from Hesham El Naggat (UWO) and David Chan (U of A).
- c) Sai Vanapalli –assisted David Cruden with acquiring the Thomas Roy booklet; finalize the reading list of publications on sensitive clays in the Ottawa region. Due to commitments at the University of Ottawa, Sai Vanapalli has resigned from the committee. We thank him for his efforts.
- d) Rick Yoshida will develop one project from the following: reading list and other papers on geotechnical engineering in Saskatchewan; work on riverbank slides and dam performance; impact of geophysics, hydrogeology and geophysics (Karl Sauer, Earl Christianson) on engineering practice; Jack Mollard - impact and papers (with Lynden Penner); PFRA papers and projects.
- e) Rejean Couture and David Cruden are considering revisions to the bilingual glossary of landslide terms.
- f) Jim Graham will complete his term as chair of the Heritage Committee in December 2011. Mustapha Zergoun has agreed to chair the committee in 2012 – 2014.

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***Technical Committee on Landslides - Corey Froese, Chair  
Report of Activities – July 1, 2010 to June 30, 2011***

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#### **Executive Committee**

The 2011 members of the Technical Committee on Landslides are:

Chair:	Corey Froese (Alberta Geological Survey/Energy Resource Conservation Board)
Past-Chair:	Réjean Couture (Geological Survey of Canada, NRCAN)
Members:	Erik Eberhardt (University of British Columbia) Serge Leroueil (Université Laval) Jean Hutchinson (Queen’s University)

#### **Affiliations with Other Organizations**

The Technical Committee on Landslides is affiliated with the Joint International Committee on Landslides and Engineered Slopes (JTC-1). Oldrich Hungr (UBC), Serge Leroueil (U.Laval), Stephen G. Evans (U.Waterloo), and Réjean Couture (NRCAN) are CGS representatives on the JTC-1

#### **Activities**

##### Joint 11<sup>th</sup> International Symposium on Landslides/2<sup>nd</sup> North American Conference on Landslides

In June 2008, prior to the 10<sup>th</sup> ISL in Xian China, the JTC-1 communicated to members that there was currently no submission to host the 11<sup>th</sup> ISL in 2012. Typically a decision amongst a number of proposals is made at the current ISL for the next ISL. Based on this, the Canadian Landslides Committee made the decision to prepare a letter of intent to host the Joint 11<sup>th</sup> ISL/2<sup>nd</sup> North American Symposium on Landslides in Banff in 2012. This letter was supported by the CGS and AEG (United States). The letter was presented at the JTC-1 meeting in Xian by Rejean Couture and Serge Leroueil and unanimously supported by the JTC-1 members, contingent on the submission of a more formal proposal at a later date. Since the “award”, the Landslides Committee has formed a small committee with significant experience in hosting similar type and size of events.

The current planning committee is comprised of the following members:

Chair:	Corey Froese (Alberta Geological Survey)
Technical Committee:	Erik Eberhardt (UBC) (Chair) Serge Leroueil (U Laval, Québec) Jean Hutchinson (Queen’s, Kingston)
Advisory Committee:	Peter Bobrowsky (Chair, GSC/NRCAN, Ottawa)

Field Trips: Rejean Couture (GSC/NRCAN, Ottawa)  
Local Rep: Simon Cullum-Kenyon (TransAlta, Calgary)  
AEG Rep: Keith Turner (Colorado School of Mines, Boulder)  
Secretary: Neil Kjelland (Alberta Transportation)  
Conference Manager: Wayne Gibson (Gibson Group)

Over the past year the focus of the ISL/NASL organizing committee has been:

- Developing and launching the conference website ([www.isl-nasl2012.ca](http://www.isl-nasl2012.ca))
- Populating the international advisory panel
- Developing the key themes for the technical program
- Issuing a call for abstracts
- Developing concepts for the field trips

Milestones to follow prior to fall of 2011:

- Evaluate abstracts and inform authors of acceptance
- Develop technical program, including selection of keynotes
- Complete final budget and open registration
- Actively solicit sponsors and exhibitors

#### 2011 Schuster Medal

Since 2007, the CGS and Association of Engineering Geologists (AEG) have co-sponsored and awarded the Schuster Medal. The First Schuster Medal was awarded to R. Schuster (USGS) himself, for his tremendous contribution to better understanding landslide hazards and risk through his long and successful career. The Schuster Medal is a joint award from the Association of Environmental & Engineering Geologists and the Canadian Geotechnical Society that recognizes excellence in geohazards research in North America. All nominees for the Schuster Medal must meet at least two of the following criteria:

1. Professional excellence in geohazards research with relevance to North America
2. Significant contribution to public education regarding geohazards
3. International recognition for a professional career in geohazards
4. Influential geohazards research or development of methods or techniques
5. Teacher of students who work on geohazards issues

Although it had originally been planned to award the 2011 Schuster Medal at the Geohazards 5 conference in Kelowna a winner was not chosen in time and therefore there will be no Schuster Medal awarded in 2011. The 2012 Schuster Medal will be awarded at the 11<sup>th</sup> ISL/2<sup>nd</sup> NASL in Banff in June 2012.

#### **Canadian National Landslide Guidelines**

Members of the CGS Landslides Committee are actively engaged in the development of National Landslide Guidelines for Canada. This project is being run through the Geological Survey of Canada with CGS Landslides Committee Past-Chair, Rejean Couture, being the project lead. CGS Landslides Committee Chair, Corey Froese, sits on the Advisory Committee for this initiative. The Canadian landslide community is actively engaged in this activity. The GSC has approached the CGS Landslides Committee regarding providing a letter of support and modest funding to support this initiative and discussions are being initiated within the Landslides Committee regarding this request.

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**Transportation Geotechnique Committee - Tim Keegan, Chair**  
**Report of Activities – July 1, 2010 to June 30, 2011**

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### **Introduction**

The Transportation Geotechnique Committee (TGC) was given status as a specialty committee under the Soil Mechanics and Foundations Division in September 2005. The proposal for the committee was submitted to the CGS by Keith Kosar and Roger Skirrow in 2003 but not formed until August 2005.

### **Executive Committee**

The 2010-2011 Committee Members of the Transportation Geotechnique Committee (TGC) consists of the following members:

Chair: Tim Keegan  
Vice-Chair: Mario Ruel  
Secretary: Rotating among members  
Past-Chair: Anne Poschman  
Members: Roger Skirrow, Heidi Evensen, Tim Keegan, Chris Bunce, Baolin Wang, Marolo Alfaro, Tony Ng, Guy Doré, Anne Poschmann, Neil Kjelland, Priscilla Desgagnes, Tae Kim, Kim Johnston, Jorge Antunes, Serge Bourque, Mario Ruel, Mark Pritchard, Carol McQuarrie, Mustaopha Zergoun, Tom Edwards, Pete Quinn, Rod Ramage, Wim van Gassen, Keith Kosar, Dave Cruden, Jean Hutchinson, Paul Lach, Don Lewycky, Simon Cullum-Kenyon, Victor Cui, Jacque Locat

### **Affiliations with Other Organizations**

The TGC is a committee which functions under the Canadian Geotechnical Society (CGS). Representatives on this committee include geotechnical practitioners, government representatives and University researchers across the transportation community.

The TGC is affiliated with the Railway Ground Hazard Research Program (RGHRP) Committee with a number of our members, including myself, serving on the RGHRP Technical Committee.

### **List of Activities**

CGS 2010 Conference, Calgary – There were two specialty sessions of the Transportation Geotechnique. Tim Keegan and Jacque Locat chaired the sessions. A subcommittee meeting was held after the specialty sessions. These were very popular sessions and there was a lot of interest, not only in the Committee but in the technical sessions. First action was to insure Transportation Geotechnique was included in the technical streams for the 2011 CGS conference in Toronto. Consensus of the group was that there are significant potential sources of technical papers from a variety of challenging transportation projects and geohazard operational risk management initiatives across Canada to fill 2 and possibly 3 specialty sessions at the 2011 conference.

Subsequently, Roger Skirrow was appointed Transportation Geotechnique stream coordinator for the 2011 Toronto CGS conference and at last report 31 abstracts had been submitted under the stream. Final request for sessions is pending the paper submittals.

The Railway Ground Hazard Program Technical Committee, chaired by Mario Ruel, continues to offer full support in the form of abstracts. They are interested in a separate Transportation Geotechnique specialties session dedicated to RGHRP content.

The future activities and initiatives of the committee will be discussed in October at the CGS Conference and I will report the main results of this meeting to the CGS Executive at that time. The three-year committee chair term will end in December 31, 2011 at which time Mario Ruel will take over the committee chair position and Roger Skirrow will take over as vice-chair.

### **Financial Status**

The committee has no operating budget of its own.

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**Professional Practice Committee – Kent Bannister, Chair**  
**Report of Activities – July 1, 2010 to June 30, 2011**

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**Introduction**

The Professional Practice Committee (PPC) is on track to complete its objectives for this year. Since our last report we have organized and held two specialty sessions at the annual CGS conference in Calgary. Organization of a single specialty session at the Pan-Am conference in Toronto is underway. We have also submitted an article for publication in an upcoming issue of Geotechnical News. Work to add content to the CGS website has also been started; information will be submitted by September of 2011.

**Executive Committee**

The 2010-2011 Executive of the Professional Practice Committee consists of the following members:

Chair: Kent Bannister  
 Past Chair: Yves Cormier  
 Members: Roger Skirrow, James Blatz, Rodney McAfee

**List of Activities**

The Professional Practice Committee set a number of goals for this year which included:

Objectives	Status
1. Summarize and assimilate the data from the online survey performed last year	Completed
2. Continuing the delivery of specialty sessions during the Canadian Geotechnical Conference (CGC);	Completed (two sessions in Calgary)
3. Publishing an article in the Geotechnical News in 2011;	Article Submitted
4. Updating PPC information on the new CGS website;	Underway, completed by September
5. Arranging Specialty Sessions for 2011 Pan-Am CGS Conference; and	Arranged
6. Provide recommendations on CGS's role with regards to professional registration of Geotechnical Engineers in Canada	On-going (working with Education committee)

As noted earlier, most of the objectives for the year have been completed. Other activities, such as updating the new website, will be completed shortly. The specialty session will consist of a presentation by Neil Abbot, a partner in the legal firm Gowlings, who will present on the theme 'how to prepare your reports to be (almost) litigation proof'.

The executive was again quite active during this past year with the following activities:

Date	Activity / Event
September 2010	PPC executive meeting
September 2010	Specialty Sessions at the CGC (Calgary) Session 1: Don't Rely On My Advice!: A Practical Guide to Disclaimers Session 2: Geotechnical Innovation in Australia Through Alliance Contracts
October 2010	PPC executive conference call
February 2011	PPC executive conference call



**Additional Information**

We would like to thank Paul Green for his efforts on this committee as he has recently stepped down as a member. Welcome to Rodney McAfee who has agreed to join the committee in Paul's place. Finally congratulations and thanks to Yves Cormier for his efforts in maintaining a productive committee during his time as chair.

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***Membership Task Force Report – Richard Bathurst, Chair  
Report of Activities – July 1, 2010 - June 30, 2011***

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Chair: Dr. R.J. Bathurst (RMC)

Members:

Dr. Dharma Wijewickreme (UBC)  
 Dr. James Blatz (U of Manitoba)  
 Dr. Craig Lake (Dalhousie)  
 Mr. Kent Banister (Manitoba Hydro)  
 Dr. Jim Oswell (Naviq)  
 Mr. Wayne Gibson (CGS Administrator)  
 Dr. Heinrich K. Heinz (Thurber)

Observer:

Dr. Victor Sowa (CGS Secretary General)

Background:

The CGS Membership Committee Task Force is an initiative that was launched by the immediate past-President of the CGS (Dr. Michel Aubertin) during his final term as President. The mandate of the Committee is to investigate why CGS membership numbers are flat and to make recommendations to increase CGS membership. The final committee reporting date is the CGS executive meeting to be held October 2011.

Actions:

1. The committee was formed in August 2010. The chair was briefed by Dr. Aubertin on membership issues as understood by the CGS President at that time.
2. The first task of the committee chair was to find members. The chair contacted and invited about a dozen CGS individuals comprising a mixture of experienced older CGS members, previous CGS executive members, CGS members from industry and academia, and younger CGS members. The persons that agreed to serve on the committee are listed above. A number of individuals agreed to provide input when asked but declined to serve officially due to conflicts or other commitments.
3. The committee chair and members met in Calgary during the 2010 CGS annual conference at which time the mandate of the committee was discussed and a number of issues identified.
4. The committee agreed that all communications would be by phone and email and there was no need to hold another meeting prior to the committee reporting date.
5. The committee members have been in contact and a number of discussion points have been collected by the chair.
6. The committee chair met with Dr. Ian Moore (CGJ editor) since the increased subscription fee for the journal was an issue identified by the members in Calgary.
7. The discussion points raised by the members have been collected by the chair and will shortly be circulated to the members for discussion. A consensus document will be drafted by the chair and delivered to the CGS Executive in time for the Oct. 2, 2011 CGS Executive Committee Meeting.

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***Geotechnical Research Board – James Blatz, Chair  
Report of Activities – July 1, 2010 to June 30, 2011***

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**Membership**

The executive members of the Geotechnical Research Board (GRB) are: Dieter Stolle (Past Chair), James Blatz (Chair), Myint Win Bo, Jean Côté, Ian Fleming, Catherine Mulligan, Arun Valsangkar, Dharma Wijewickreme and Tai Wong.

**List of activities**

**GRB session at the 2010 Annual Canadian Geotechnical Society Conference:**

The GRB session at the 2010 CGC included two presentations on the competition statistics from the Discovery Grants competition and the new Strategic Partnerships Initiative (SPI) programs at NSERC. Serge Villemure, Grants and Scholarships Programs Director from NSERC, presented the prior competition data and showed some general guidelines for applicants to the Discovery Grant competition. James Blatz, Associate Dean Research from the University of Manitoba, presented information on the new SPI programs and application procedures. The session ended with a Q&A period where participants were able to address both the speakers. The response was very positive and approximately 30 members were in attendance.

There was discussion on the Terms of Reference for the Colloquium Speaker with regard to eligibility was again brought forward with recommendations to forward to the board. All agreed that the changes would be beneficial to the competition. The concern about the colloquium generally being won by academic candidates was discussed and the idea of a similar award to recognize practitioners was brought forward. The GRB chair agreed to follow-up on the idea with the Canadian Foundation for Geotechnique.

The Chair, Dieter Stolle, notified the group that James Blatz would be taking over as chair following the upcoming Colloquium competition. A Vice-Chair will be selected from the membership at the 2011 conference.

**2012 Colloquium Selection**

Four strong candidates were nominated for the 2012 Colloquium. The selection committee, presided by the GRB Chair completed reviewing and ranking the different proposals following the rules adopted by the Society. The selection committee comprised the Technical Division Chairs, the Editor of the CGJ, and GRB members. The selection of the 2012 Colloquium speaker, to remain confidential, was finalized before mid-April, the winner being Andy Take of Queens University. An announcement will be made at the upcoming conference in Toronto.

In the coming two years, the GRB will continue to focus on supporting the CGS membership, both academic and practicing, in engaging in research activities. The GRB will also be taking a role in the active promotion and advocacy of the CGS members to advisory boards, policy groups and funding agencies to have CGS members play a more direct role in supporting those groups. This initiative will be discussed in more detail with the board at the spring meeting 2012.

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***Canadian Geotechnical Journal - Ian D. Moore, Editor  
Report of Activities - July 1, 2010 to June 30, 2011***

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During 2010, a total of 352 manuscripts were received (up from 350 in 2009), with 101 published (90 articles and 11 notes), down from 117 in 2009 as a result of efforts to increase standards (with a corresponding decrease in the acceptance rate from 33% to 28%). The impact factor (an imperfect measure of journal quality, though one widely used) has risen again for the fourth straight year to 0.71,

but it is still less than 1.0 where it needs to be if we are to remain competitive. I will maintain efforts to improve decision-making times, since this is important if we are to continue attracting contributions from leading scholars and practitioners, and one simple means of improving impact factor without resorting to overt manipulation.

NRC Research Press continues the process of change following its move to become a private, not-for-profit corporation. A significant development was the decision to have the Editorial Assistant (EA) employed by and reporting to NRC Research Press in Ottawa rather than to the Editor, and the questionable decision to have one Editorial Assistant for both the CGJ and the CJCE, rather than one each. One impact of this is that paper processing by the EA has slowed, but this will hopefully just be part of the transition. NRC Research Press chose to move all their journals from the Osprey online system to ScholarOne, all on the same day (April 1). While this meant they made some significant mistakes with the transfer, the new system is better than the old and I expect that it will be more efficient, and help the board improve processing times (provided EA support is adequate).

As usual, there has been some turnover of the Editorial Board and the current Associate Editors are David Airey, Bruno Bussière, David Chan, Josée Duchesne, Hesham El Naggar, Rajah Gnendran, Chris Haberfield, Oldrich Hungr, Buddhima Indraratna, Jayantha Kodikara, Craig Lake, Hani Mitri, David Muir Wood, Charles Ng, Kent Novakowski, Scott Olson, Jin Ooi, Ryan Phillips, Kerry Rowe, Wayne Savigny, Jitendra Sharma, Daichao Sheng, Greg Siemens, Doug Stead, Richard Wan, Dharma Wijewickreme, Jian-Hua Yin and Hai-Sui Yu (16 Canadians and 12 other members from Australia, Hong Kong, Singapore, the UK, and the USA). I would like to thank all of the Associate Editors for their excellent work and dedication. Thanks to Tarek Abdoun, David Cruden, Fabrice Emeriault, Hanping Hong, and Andrew Whittle who completed their terms last year. Dr Cruden provided exemplary service on the board for many years, and deserves special mention.

The peer review process is essential in maintaining the standard of our Journal. The Editorial Office truly appreciates the work performed by our reviewers.

In closing, I would like to acknowledge the superb work of Deborah Cooke who completed 9 years as Editorial Assistant with the Canadian Geotechnical Journal, supporting two editors (Arun Valsangkar before I became editor). Her effective and efficient performance was marked by calm in the face of the inevitable storms, an extraordinary (and valuable) understanding of the people associated with the journal (the board, authors and reviewers), and outstanding written and other communications. Her contribution has been huge, and she will be missed.

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***Canadian Geotechnical News - Phil Bruch***  
***Report of Activities July 1, 2010 - June 30, 2011***

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I have been the editor of CGS News in Geotechnical News for five years and I am entering the final year of my term (my second three-year term). Therefore, one of my primary tasks for the upcoming year will be to find a replacement for my position.

Geotechnical News is published four times a year (March, June, September and December). The mandatory items that are to appear in each specific issue are detailed in the CGS Administration Manual. The CGS News items are submitted to BiTech by the CGS News Editor approximately 2 months prior to the publication date for Geotechnical News. CGS News is also to be posted on the CGS website. Wayne Gibson has recently been posting the information.

I would like to thank Bryan Watts, Victor Sowa and the Canadian Foundation for Geotechnique for their contributions to the column. Also, I greatly appreciate the support that I have received from the CGS executive and board.

## **CGS MEMBERSHIP COMMITTEE TASK FORCE REPORT - 16 September 2011**

**Chair:** Dr. R.J. Bathurst (RMC)

### **Members:**

Dr. Dharma Wijewickreme (UBC)  
Dr. James Blatz (U of Manitoba)  
Dr. Craig Lake (Dalhousie)  
Mr. Kent Banister (Manitoba Hydro)  
Dr. Jim Oswell (Naviq)  
Mr. Wayne Gibson (CGS Administrator)  
Dr. Heinrich K. Heinz (Thurber)

### **Observer**

Dr. Victor Sowa (CGS Secretary General)

### **Background**

The CGS Membership Committee Task Force is an initiative that was launched by the immediate past-President of the CGS (Dr. Michel Aubertin) during his final term as President. The mandate of the Committee is to make recommendations to the CGS executive that, if implemented, could increase CGS membership. The committee was formed in August 2010 with a one-year term that expires at the time of the fall 2011 CGS executive meeting to be held in Toronto.

### **Methodology**

The committee members first met at the 2010 annual CGS conference in Calgary to discuss ideas and thereafter communicated by email and telephone. The chair communicated with CGS members in Quebec to capture ideas and issues identified by francophone members. The chair also asked selected non-committee members for their opinions on the contents of the initial draft of this report. The draft of this report was circulated to the members of the committee for comment prior to this final submission.

### **Outcomes**

This report is presented as a synthesis of ideas that were advanced by members of the committee to improve the visibility of the society to current and potential members and to identify benefits of membership. The committee felt that if initiatives to increase visibility and benefits of membership are successful, membership numbers will increase. The merits, feasibility and cost implications to the society of any individual idea were not debated. Hence, the ideas listed below represent a starting point for discussion.

#### **1. Branding strategies to increase visibility and prestige of being a member of the CGS**

CGS membership identification as Member of the Canadian Geotechnical Society (MCGS). This is equivalent to MASCE status in the American Society of Civil Engineers which requires a minimum time of membership in the society and letters of recommendation. Authors of papers submitted to the CGJ would be asked to identify themselves as MCGS and this acronym would be included in the author affiliation. This is currently done with the ASCE journals.

Fellow of the CGS. This would be equivalent to Fellow of the Canadian Society for Civil Engineering (FCSCE). Template protocols for nomination and election of fellows are available from the EIC and the CAE.

Recognition of continuous membership in the society. For example 10-, 20- and 30-year membership recognition through letter from the President of the society, mention in CGS news and CGS e-news, CGS pin.

Online gift shop for CGS and at CGS conferences. Items could include CGS pins, ties, pens, sweaters. These have been great sellers for other societies such as the IGS.

## 2. Student membership and activities

There are excellent examples of CGS student activity programs organized by groups/chapters/local sections of the society. Examples are the annual Graduate Student Paper Presentation competition held jointly by the Ottawa Geotechnical Group and Kingston chapter of the CGS each year. This is a competition between graduate students at Queens, RMC, Ottawa-Carleton University for best paper presentation based on voting by a panel of CGS member judges. The winners receive a small honorarium and financial support to attend the annual CGS conference. Depending on chapter finances this has sometimes included a registration fee waiver. CGS headquarters could promote and strengthen this program by offering each chapter one free student registration waiver each year provided that a formal best paper competition is used to identify the graduate student and the chapter agrees to assist with travel expenses.

Offer short courses at local chapter venues with a discount to potential young members equal to the cost of student membership or, in the case of recent graduate, new young member annual fee.

The three cYGEGC's are a proven formula to connect your persons to our society and should be continued.

Anecdotal evidence suggests that the vast majority of students pick their degree programs based on what they read on university websites. Include a link to the CGS on all civil engineering department websites and relevant geotechnical research groups. Include a link on all CGS corporate member websites to the CGS.

Encourage executive members of local CGS groups to give a short briefing to undergraduate and graduate students taking geotechnical courses at local universities. For example, each year the PEO is given time to identify their organization and mission to final-year civil engineering students at RMC. CGS headquarters could create and distribute a PowerPoint kit for this purpose.

## 3. Encouragement of employers to pay for CGS membership of their employees

Some CGS members have the benefit of their employer paying for their membership while the majority does not. A strategy to increase employer support would be to offer a number of free or heavily-discounted short course spaces to company employees based on the number of employees that are supported directly by their company.

A related program could be identifying/recognizing companies based on the number of employees that they support by paying their membership dues. This is analogous to Platinum, Gold, Silver sponsorship at the annual CGS conferences.

## 4. Encouragement of young persons to join the CGS by senior mentors

Professors and senior industry members are professional mentors of young persons. All of us can remember these individuals in our own lives. Strategies to encourage/remind these senior persons to identify the benefits of CGS membership and our fraternity of professionals to young persons need to be explored. One idea would be to remind our senior members of this obligation through articles in Geotechnical News and society e-news.

## 5. Encouragement of CGS course attendees to become members

The CGS offers valuable courses at each annual conference. However, not all attendees are CGS members. A small invisible fee could be tacked on to each course fee and these funds used to offer a discounted one-year membership to each course attendee to sign up for CGS membership.

The amount of the CGS member and non-member conference fee differential should be reviewed as a method to encourage more conference attendees to become CGS members.

## 6. Encouragement of local chapters/regions to promote membership

Local chapters and regions are best placed to make first contact with potential new members including young people coming out of school. At the same time these local groups are financially constrained regarding benefit deliverables to members. A strategy to increase membership to the society and reward local groups/chapters/sections is to offer a rebate to these groups for every additional membership above past highest historical numbers.

Another policy could be to eliminate separate local group/chapter/section membership fees entirely by rebating a portion of the annual CGS fees to these groups. Some CGS members do not like to pay fees to two separate CGS entities. This could be an alternative (financial) reward program to that identified above.

## 7. National short courses and webinars

The CCLT is a successful model to deliver lectures across the country hosted by CGS local groups. Offer a similar series coordinated by CGS headquarters but using one-day programs taken from any of the one-day short courses offered at the annual CGS conference.

Investigate having this course or similar courses early in the calendar year to maximize recruitment at the beginning of the year and not in the final quarter (i.e. at time of annual conference).

Webinars have been used by the society in the past and are becoming popular as an effective course delivery mechanism by other societies.

Encourage courses that offer CEUs.

## 8. Social Media

Put the CGS on Facebook and Twitter. Universities are doing it. Apparently this is how young people communicate.

## 9. Canadian Geotechnical Journal

More work needs to be done to advertise the reduced subscription fee for the CGJ that is a benefit of CGS membership. Even if a member does not opt to subscribe to the journal, it is good optics to remind CGS members and non-members that there are financial benefits to being a member and that the CGJ is the official technical journal of our society. This can be done by email-broadcasting to CGS members the contents of each new issue of the journal by way of e-alerts (as is done by other journals) and advertising in each e-alert that the CGJ is the official journal of our society. The member could (of course) opt in or out of this service. Initiatives of this type are doubly important at this time since CGS member journal subscription fees have gone up and even this small increase can tip members away from continuing their subscriptions and their annual society membership.



*Proposal*

Creation of a new Technical Committee on

**Mining Geotechnique**

Prepared by: Michel Aubertin, Bruno Bussière, Murray Grabinsky, Paul Simms,  
Dharma Wijewickreme, Ward Wilson.

Submitted to: Bryan Watts, President, and the CGS Board  
(Board Meeting, Toronto, October 2<sup>nd</sup>, 2011)

CC: Victor Sowa, Secretary General

Over the years, mining has played a major role in the economy of the country and of many of its regions. A large proportion of geotechnical engineers and geoscientists have been working in this area. Not all of them are presently members of CGS, and those who are don't necessarily engage in the Society's activities. And although there have been regular presentations dealing with **Mining Geotechnique** at the Canadian National Conference (CNC), during recent Cross Canada Lecture Tours (CCLT), and in the Canadian Geotechnical Journal, it is believed by the authors of this proposal that there is a need to better coordinate the various activities related to this area within CGS.

Technical committees have been created by the Canadian Geotechnical Society to address activities and issues of permanent importance or interest to its members, and which transcend Divisional lines and therefore require a different organizational structure. The field of Mining Geotechnique constitutes one such wide-spanning discipline. It is related to many domains that are traditionally linked with the 7 existing Technical Divisions, including Rock Mechanics (for ground control and backfilling issues for instance), Soil Mechanics and Foundation (dykes, dams, and other surface infrastructures), Hydrogeology (seepage, drainage, and water quality), Cold Regions (northern mining, freezing effects, permafrost), Geoenvironmental (acid mine drainage, geochemistry, reclamation), Geosynthetics (liners and covers), and Engineering Geology (material characterization and site selection). The initial objective of this new Technical Committee is to promote the development and visibility of this field, while favoring strong interactions with all of the CGS Divisions. The committee will bring together CGS members (existing and new ones) having an interest in the broad field of geotechnique applied to mining activities.

A meeting of the members of the Committee (and of others that will be invited in advance and on location) will be organized during the upcoming CGS-PanAm Conference in Toronto. This will serve, among others, to identify the first group of Executives for this new Committee, which will include a Chair, a Vice-Chair, and at least three members. The Chair will report to the Vice-President Technical, in accordance with CGS bylaws.

During (and shortly after) the meeting in Toronto, the Executives will prepare a set of specific objectives for the scope of activities of the Committee on Mining Geotechnique, together with an Action Plan. The mandate of the Committee would include items such as:

- To identify and address issues and problems concerning all aspects of Mining Geotechnique, as applied to the vocational fields covered by the Society.
- To raise the awareness of Mining Geotechnique in the Geotechnical and Mining Communities.
- To undertake activities appropriate and necessary to achieve the stated objectives and take appropriate actions.
- To promote coordinated research efforts and dissemination of findings.
- To help develop guidelines for 'best practices' for practitioners.
- To provide a forum for discussion of issues related to the broad area of Mining Geotechnique.

Among the initiatives of the new Committee, the Executives will consider the possibility of organizing, hosting or co-hosting technical events, after obtaining the required approval from the Board of Directors. One of the goals of such activities will be to increase the profiles of the targeted areas. This could include for instance, organizing sessions during our CGC, in collaboration with Technical Divisions (or with other Committees), and getting involved with other Conferences being held across the country (or elsewhere).

A first written report will be prepared for the Board meeting in 2012 (Winnipeg), with a preliminary version available earlier, in the spring, for the CGS Executive Committee Meeting.

It is understood that although the Committee will be considered as permanent, a review will be conducted every three years by the Board of Directors, to ensure that the objectives and mandate have been filled.



**The Canadian Geotechnical Society  
La Société canadienne de géotechnique**

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