



Structural Geology
& Tectonics Division



Winter 2014

<http://gac.esd.mun.ca/sgtd>

THE MAIN THRUST

**NEWSLETTER OF THE CANADIAN TECTONICS GROUP & THE
STRUCTURAL GEOLOGY AND TECTONICS DIVISION OF THE
GEOLOGICAL ASSOCIATION OF CANADA**



Group photograph at the Victoria 2013 CTG Workshop (Photo: A. Hickin)

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1. 2013 CTG/SGTD Workshop

The 33rd meeting of the Canadian Tectonics Group was held in conjunction with the British Columbia Geological Survey Open House in Victoria. Stephen Johnston, University of Victoria, ably organized the meeting. The three-day joint meeting was divided into the Open House (Nov. 14th), the CTG meeting (Nov. 15) and a geological field excursion. The field excursion examined the boundary between the Wrangellia and the Pacific Rim terranes. On behalf of the CTG community, thank you Stephen for making this happen.

2. Students: apply for a grant of up to \$1000 to attend GAC-MAC in Fredericton, New Brunswick

CTG/SGTD will once again provide support to enable students to attend the GAC-MAC annual meeting. Priority will be given to a student or students who are presenting talks or posters, and who wish to attend either of the sponsored field trips (see below). Students should contact the SGTD Chair (godinl@queensu.ca), attaching a copy of a submitted abstract, together with a short cover letter including:

- A budget of the costs associated with attendance, including travel, and other sources of funding available;
- A statement indicating why you wish to attend the meeting and how you expect to benefit from it;
- A transcript or transcripts of your academic record.

Deadline: March 14th 2014.

3. Tectonics and structural geology at the Fredericton GAC general meeting

The 2014 GAC-MAC joint annual meeting will be held in Fredericton from May 21 to 23, preceded and followed by field trips. The following field trips are sponsored by the CTG/SGTD:

- A2. The Popelogan Arc-Tettagouche Back-arc Basin, the Brunswick Subduction Complex, and the Salinic Orogeny in Northern New Brunswick, *led by Cees van Staal, Reg Wilson*
- B2. Minas Fault Zone, Nova Scotia: Geometry and Processes of Localization in a Mature Zone of Transpression, *led by Joseph Clancy White, Noah Phillips*
- B4. Sedimentological, Structural and Paleontological Highlights of the Carboniferous Maritimes Basin in Southern New Brunswick, *led by David Keighley, Adrian Park, John Waldron*
- B6. The on-going Saint John Enigma: Avalonia vs Ganderia in Southern New Brunswick, *led by Sandra Barr, Susan Johnson, Chris White*

For further details, see the GAC MAC website at:

<http://www.unb.ca/conferences/gacmac2014/>

4. CTG/SGTD 34th Fall Workshop

Plans for the next fall workshop of the CTG are at a preliminary stage. In the normal rotation, the 2014 meeting would occur in central/eastern Canada. Laurent Godin agreed to contact potential organizers (Dazhi and Bruno will be receiving an email shortly!) with the intent of having a definite proposal by the 2014 GAC meeting.

5. Winners of Jack Henderson awards for best theses

The following awards were made for theses defended in 2011 or 2012.

PhD thesis prize:

David Moynihan of the University of Calgary for his thesis “Metamorphism and Deformation of the Central Kootenay Arc, Southeastern British Columbia”
Supervised by D. Pattison

The MSc thesis prize:

Holly Steenkamp of Dalhousie University for her thesis “A metamorphic history of supracrustal rocks on Harøya and Finnøya, Nordøyane, western gneiss region, Norway”

Supervised by R.A. Jamieson.

Congratulations to both winners and their supervisors!

6. Call for Submissions for the Jack Henderson Best MSc Thesis Award and Best PhD Thesis Award.

We are calling for submissions for the **Best MSc Thesis Award** and the **Best PhD Thesis Award**. Theses submitted to a Canadian university and successfully defended in the 2013 calendar year are eligible. **Submissions must be received by February 17th, 2014**. A submission can be made by the thesis supervisor, by the student, or by any member of the division. It should include a “statement of nomination” letter from the supervisor or a thesis examiner, stating that the thesis was successfully defended in 2013, outlining the key contributions that it makes to structural geology and/or tectonics, and identifying a chapter or chapters in the thesis that are of particular excellence. We also ask that the duration for completion of the thesis be included, and if necessary, a statement of any extenuating circumstances that may have delayed completion. In the case that the student submits a copy of the thesis, the onus is on the student to make sure that the supervisor (or a member of the examination committee in the case that the supervisor is not available) submits the nomination letter. Theses for which we receive no nomination letters will not be considered for an award.

We prefer to receive theses as pdf documents by email (if 25 MB or less), a secure download site, or by mail on a CD or DVD. Please send the theses to:

Dan Gibson (SGTD Vice-Chair) Department of Earth Sciences, Simon Fraser University, 8888 University Drive, Burnaby, B.C. Canada V5A 1S6

E-mail: hdgibson@sfu.ca

Deadline: submissions must be received at the above address by Feb 17th, 2014

7. Winner of the David Elliott Best Paper award

The Dave Elliott award for best paper in Canadian structural geology and tectonics, with publication year 2012, was awarded to:

Toby Rivers of Memorial University for his paper “Upper-crustal orogenic lid and mid-crustal core complexes: signature of a collapsed orogenic plateau in the hinterland of the Grenville Province”, which appeared in *Canadian Journal of Earth Sciences* 49, 1-42 (2012).

Congratulations and well done Toby!

Abstract: This paper provides a re-interpretation of the crustal architecture of the Ottawa hinterland of the Grenville Province in light of published empirical and numerical models of orogenic collapse. It is now seen as a series of high-grade, mid-crustal core complexes from tens to hundreds of kilometres across that are juxtaposed against segments of the lower grade upper and uppermost crust including the orogenic lid. Juxtaposition of such contrasting crustal levels, which exhibit decoupled tectonic styles corresponding to the orogenic infrastructure and suprastructure, respectively, is interpreted as a signature of the foundering of an orogenic plateau into a mid-crustal channel. Ottawa metamorphism progressed from granulite-facies in the mid crust at ~1090–1050 Ma, through amphibolite-facies in the upper crust at ~1050–1020 Ma, to heating to ≤ 500 °C in the uppermost crust at ~1020–980 Ma. This temporal progression is interpreted to reflect conductive heat transfer during collapse, as hot mid-crustal core complexes were exhumed against successively higher crustal levels. Exhumation was facilitated by substantial thinning and lengthening of the mid crust by simple- and pure-shear mechanisms. This was accompanied by wholesale boudinage of the brittle uppermost crust. Moreover, it may have resulted in excision of part of the ductile upper crust, which appears under-represented. Collapse was accompanied by diverse magmatic and hydrothermal products, their range of structural states implying that high-strain Ottawa deformation in the mid crust took place beneath an orogenic lid that was not penetratively deformed. Preliminary analysis indicates the Grenvillian inliers exhibit a comparable range of crustal levels to the Grenville Province, suggesting the orogenic plateau may have extended ~5000 km along strike from Labrador to Texas.

8. Forthcoming Dave Elliott Best Paper Award

We are also interested in submissions for the **Best Paper Award**. Your councilors will prepare a shortlist of papers written by authors based in Canada or dealing with Canadian topics and with publication date in the 2013 calendar year. Priority will be given to peer-reviewed publications. Submissions from the membership are also welcome, and should if possible include a PDF file of the paper. Submissions by the authors will be considered. We will then appoint a small committee (of individuals not involved with any of the shortlisted papers, or course) to review the shortlisted papers and select a winner. These submissions should go, before February 17 2014, to: Laurent Godin (SGTD Chair): godinl@queensu.ca

9. SGTD Business Meetings

Business meetings of the SGTD were held at the GACMAC meeting in Winnipeg Manitoba, and at the CTG workshop in Victoria British Columbia. Minutes are included below.

The next business meeting will be held at the GAC annual meeting 2014 in Fredericton, New Brunswick

SGTD business meeting Winnipeg; May 2013

(Minutes remain unofficial until approved at a following business meeting.)

SGTD meeting at GAC-MAC, Winnipeg 2013

Chaired by John Waldron

1. Approval of minutes of last meeting at CTG, Ottawa (Secretary)

2. Matters arising, not covered below

No business arising

3. Financial report (Treasurer A.V. Okulitch)

<i>Balance, 31 Dec 2011:</i>	<i>\$ 8235.24</i>
<i>Bank charges:</i>	<i>- 11.00</i>
<i>Business meeting:</i>	<i>0.00</i>
<i>Interest</i>	<i>+ 8.38</i>
<i>Membership dues 2011:</i>	<i>+1190.00</i>
<i>PhD thesis award:</i>	<i>- 500.00</i>
<i>Student travel to CTG:</i>	<i>-1000.00</i>
<i>MSc thesis award:</i>	<i>- 200.00</i>
<i>MSc thesis award (2011):</i>	<i>-400.00</i>
<i>Best paper prize:</i>	<i>- 200.00</i>
<i>Balance, 31 Dec 2012:</i>	<i>\$ 7122.62</i>

Membership dues from head office for 2011 have been deposited in April 2012.

The cheque to Tasca Noela Santimano for her MSc thesis award for \$400.00 written 17 Dec 11 was cashed in April 2012. .

Membership dues for 2012 (approx. \$ 1000.00) were deposited in April 2013.

4. Awards (Waldron)

Jack Henderson prizes for best theses

The MSc thesis prize goes to: Holly Steenkamp, Dalhousie University, for the thesis: A metamorphic history of supracrustal rocks on Harøya and Finnøya, Nordøyane, western gneiss region, Norway, supervised by R.A. Jamieson

The PhD thesis prize goes to: David Moynihan, University of Calgary, for the thesis: Metamorphism and Deformation of the Central Kootenay Arc, Southeastern British Columbia, supervised by D. Pattison

Dave Elliott Award for best paper

Toby Rivers, of Memorial University of Newfoundland: "Upper-crustal orogenic lid and mid-crustal core complexes: signature of a collapsed orogenic plateau in the hinterland of the Grenville Province." Canadian Journal of Earth Sciences 49, 1-42.

5. Election of new chair and councillors (Nominating Committee)

New: The following nominations have been received for executive and council positions.

Chair: *Laurent Godin* Queen's University, Kingston

Vice-Chair: *Dan Gibson*, Simon Fraser University, Vancouver

Councillors: *Kathryn Bethune*, University of Regina

John Waldron, University of Alberta, Edmonton

Additional nominations are welcome

Continuing:

Secretary: *Jürgen Kraus*, Mortal Oil Ltd. Calgary

Treasurer: *Andy Okulitch*, Geological Survey of Canada (Vancouver)

Councillors:

Normand Goulet, Université Québec à Montreal

Mary Louise Hill, Lakehead University, Thunder Bay

Lyal Harris, Institut national de la recherche scientifique, Québec

Lori Kennedy, University of British Columbia

Joseph C. White, University of New Brunswick, Fredericton

6. CTG fall meeting 2013: Need a proposal and venue: western Canada

7. Bylaws update (Waldron)

8. Other business

SGTD business meeting Victoria BC 15 Nov 2013

(Minutes remain unofficial until approved at a following business meeting.)

Chaired by Dan Gibson, minutes taken by Stephen Johnston

20 eligible members present

1. Approval of minutes from last meeting (GAC 2013 – Winnipeg)

Motion to accept minutes of previous meeting

MOVED by Katherine Boggs, SECONDED by Andy Okulitch

Carried

2. Matters arising from minutes

No business arising

3. Discuss merging names of CTG and SGTD

It was suggested that the CTG and the SGTD merge and become a single entity entitled the CTG. Discussion ensued. There were numerous requests to have the CTG (Canadian Tectonics Group) and SGTD (Structural Geology & Tectonics Division) abbreviations defined. Questions were asked regarding the history that led to their being two Structure and Tectonics groups in Canada. At that point Dan Gibson prorogued discussion.

A straw pole indicated strong support for the merger.

4. Awards – set levels for various CTG awards

Andy Okulitch led the discussion, beginning with a review of the awards given out by the CTG. Current awards are:

- Jack Henderson Best M.Sc. - \$200
- Jack Henderson Best Ph.D. - \$200
- D. Elliott Best paper - \$400

In addition the sponsors student participation on CTG-related field trips and sessions at the GAC annual general meeting, providing \$500 to a small number of students.

Currently the CTG takes in about \$1500/a, and has savings of ~\$8000.

Okulitch suggested that, given the annual income and current account surplus, the CTG increase the amounts awarded.

The consensus decision was to make the awards all \$500 (the Hendersons and the Elliott) and that student sponsorship for participation in the annual fall meeting of the CTG be considered.

5. Location of next CTG meeting

A number of potential locations were discussed:

- Dept. of Earth Science, Western University (Dazhi Jiang)
- Earth Sciences, Laurentian University (Bruno Lafrance)
- The other suggestion, put forward (sort of) by Katherine Boggs, was to meet jointly with the 'Structural Geology and Tectonics Forum' in the US. It is believed that the next meeting of the SGTF is to be hosted by Yvette Kuiper in Golden CO.

6. Any other business

Dan Gibson reminded the group that the 2014 Annual General Meeting of the GSA is in Vancouver, and provided this call for proposals:

The Geological Society of America is holding its 2014 annual meeting in Vancouver, Oct. 19-22. On behalf of the GSA Structural Geology and Tectonics Division (SG&T), I'm sending this email to encourage you to consider organizing a theme session, special session and/or field trip for the meeting on aspects of structural geology and/or tectonics, broadly construed. Deadlines for proposals are coming up soon - Dec. 2 of this year for field trips, and Session proposals are due Jan. 14 2014. More information is available at <http://www.geosociety.org/meetings/2014/>

The team of people in our division that are seeking conveners of sessions and field trips include local lead Dan Gibson (hdgibson@sfu.ca) (Joint Technical Program leader for SG &T) and Chuck Bailey (cmbail@wm.edu) (Joint Technical Program for SG &T); others working on this meeting's sessions are division officers Sarah Roeske (smroeske@ucdavis.edu), Andrew Meigs (meigsa@geo.oregonstate.edu), Jean Crespi (jean.crespi@uconn.edu), and Donna Whitney (dwhitney@umn.edu). Any of us would be happy to discuss ideas for sessions and the division will sponsor your session or field trip if it falls under our range of topics that we consider within our division. The sponsorship aspect provides a quick link for people in our fields to search for interesting sessions.

We hope to receive proposals for sessions that cover a range of topics that are new, hot, exciting in your fields of expertise that you would like to present and discuss in front of a diverse international audience. If you want to do something creative, outside of the standard 12 min talk, check out ideas for Pardee and Special sessions and digital poster sessions (check this year's technical session

list: <http://community.geosociety.org/2013AnnualMeeting/Sessions>). GSA national meetings in the Pacific NW are usually well-attended, typically 6,000-8,000 geoscientists, and field trips are popular. Many students attend, both undergraduate and graduate, and it is a good place to interview prospective graduate students and search for employees.

There being no further business, Dan Gibson adjourned the meeting at 17:57:33 and headed directly to Swan's Pub.

10. IMPORTANT Proposal for new constitution and bylaws for the division

For some time now we have been looking at the ageing constitution and bylaws of our division, the Structural Geology and Tectonics Division of the GAC.

The bylaws as they stand are quite antiquated: they require, in theory, that notices of meetings and elections be sent out by Canada Post, something that would be prohibitively expensive and impractical today; they refer to the leader of the group as

"chairman," though most recent occupants of this position have styled themselves "chair."

Many have expressed dissatisfaction with the name of the division ("SGTD sounds like some disease") that contrasts with the relatively catchy name of our sister group, the Canadian Sedimentology Research Group (CSRG).

Many people are confused about the roles of the SGTD and the CTG (Canadian Tectonics Group). The latter was founded as an independent meeting, an annual get-together with no constitution, rules, or bank account. The CTG meeting's contribution to Canadian Tectonics has been a major one, and over the years the activities and objectives of the SGTD and the CTG meeting have converged to the point where the two organizations are difficult to distinguish. The SGTD communicates with its members using the "CTG-list," admirably maintained by Frank Fueten, and the SGTD has become responsible for finding an organizer for the CTG meeting each year, while its parent organization (the GAC) provides insurance coverage for the CTG field trip for free.

We therefore propose to change the name of the SGTD to "Canadian Tectonics Group," recognizing in name what is already the case in practice.

Last fall we circulated a proposed set of changes to the GAC Council, who responded positively, suggesting a couple of refinements, which have been incorporated in the version attached here. (Everything in the bylaws of a division has to be consistent with the parent organization, so this was an important first step.)

What will happen next? We will submit the proposed changes to the membership for a ballot. For consistency with the practice of the parent organization, the GAC, we will do this by sending an email to the CTG-list, outlining the changes, and inviting discussion. After 20 days, email voting will be opened for an assigned period. An email address will be provided. (The list makes a good vehicle for discussion but don't send your vote to the whole list; a special email address will be announced for receiving votes.)

The proposed changes can be found at the end of this newsletter. Their main impacts are listed below. We look forward to putting this proposal to you, the members, as we think it is important for the continued role of the division and the CTG meeting as an effective voice for the structural geology and tectonics community in Canada.

John Waldron, Laurent Godin

Significant changes

- Change the name of the division from Structural Geology and Tectonics Division to Canadian Tectonics Group, in order to reduce perceived fragmentation of the community that results from the appearance of two organizations with closely similar roles.
- Protect the continuity and openness of the current CTG fall field meeting (which is in practice being largely organized by the division anyway) by including a requirement that the division hold this scientific meeting each year, open to members and non-members.
- Specify that the past chair remains on council, to help with continuity

Updates to the bylaws to bring them into line with current practice:

- Remove the requirement to send notices by regular mail. Instead we defer to whatever is the GAC's preferred means of communication at the time.
- Remove the requirement that the secretary keep lists of all members' postal addresses. Instead we defer to the GAC's record keeping, since dues are paid through the GAC.
- Separate the roles of secretary and treasurer to conform to existing practice.
- Remove the prohibition on consecutive terms for officers, which is in some cases impractical and undesirable for reasons of continuity.
- Loosen some of the very specific, and sometimes ambiguously written, requirements for allocation of positions across region, government, university, industry etc., while still including wording that encourages representation across all these communities.
- Streamline the very cumbersome process for the nomination and election of officers, which was routinely ignored, anyway.
- Fix a problem and simplify article VI, whereby if a bylaw change is proposed less than 20 days prior to the annual meeting, it is impossible to carry out the required voting procedure specified under paragraph 1 in the time allowed by paragraph 2!
- Make the terms 'Executive' and 'Officers' consistent with their use in GAC Council.
- Gender-neutral language.
- Correct typographic errors and spelling mistakes.

11. Current SGTD Executive and Councillors

Chair: *Laurent Godin*, Queen's University, Kingston

Vice Chair: *Dan Gibson*, Simon Fraser University, Vancouver

Secretary: *Jürgen Kraus*, Mortal Oil Ltd. Calgary

Treasurer: *Andy Okulitch*, Geological Survey of Canada (Vancouver)

Councillors:

Kathryn Bethune, University of Regina, Regina

Normand Goulet, Université Québec à Montreal

Lyal Harris, Institut national de la recherche scientifique, Québec

Mary Louise Hill, Lakehead University, Thunder Bay

Lori Kennedy, University of British Columbia

Bruno Lafrance, Laurentian University, Sudbury

John Waldron, University of Alberta, Edmonton

Joseph C. White, University of New Brunswick, Fredericton

**Canadian Tectonics Group
Constitution And By-Laws**

Deleted: Structural Geology and Tectonics Division

Article I

1. Name: Canadian Tectonics Group
2. Status: The Group shall be a Division of the Geological Association of Canada (GAC), formerly known as the Structural Geology and Tectonics Division.
3. Objectives: To promote studies in structural geology and tectonics.

Deleted: Structural Geology and Tectonics Division of the Geological Association of Canada.

Article II

1. Membership: Members of the Division shall be members in good standing of the Geological Association of Canada.
2. Application for Membership: Members of the GAC may become members of the Division, by application to the GAC and payment of the annual fee.
3. Eligibility to Vote: Only voting members of the GAC who are also members of the Division are eligible to vote on Division business.

Deleted: in good standing

Article III

1. Fees: Annual Division membership fees shall be set from time to time. Student members shall be exempt from annual dues.
2. There shall be no Division initiation fees.

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Deleted: Term of office of executive members shall be staggered so as to ensure continuity.

Article IV

1. Executive: The Executive Council of the Division shall be at least a Chair, Vice-Chair, a Secretary, a Treasurer, and one or more Councillors, who shall include the Past Chair. Insofar as is practical, the Executive Council shall include representatives of the various regions of Canada and the various disciplines and occupations represented by the membership.
2. Officers: The Officers shall comprise the Chair, Vice-Chair, Secretary and Treasurer.
3. Terms of Office: All members of the Executive Council shall serve for a term of three-year term commencing at the adjournment of the appropriate annual meeting. No Chair may serve two consecutive terms.
4. Nominating Committee: Nominations for election will be made by a nominating committee that includes at least two members of the Division who are not current officers, and (ex officio) the Chair. The two members will be chosen by the Executive Committee.
5. Nomination of Officers: At least sixty (60) days before the Annual Meeting the nominating committee shall communicate to members a list of all elective offices that will become vacant at the time of the Annual Meeting. The Nominations Committee shall prepare a list of nominees that includes at least one nomination for each vacant position. Any three members may also provide nominations by communicating the names to the Chair. The Nominations Committee shall present the names of all nominated members to the Annual Meeting. An election shall be held, at the Annual Meeting, for any positions that have received more than one nomination.
6. Meetings: The Annual Meeting of the Division shall be held whenever possible at the GAC Annual Meeting. Special general meetings may be called at any time by the Executive or by a written petition signed by a quorum of the members.
7. Quorum: A quorum shall be whichever is less of ten members or ten percent of the members of the Division.
8. The Division shall propose at least one discussion meeting per year, open to members and non-members interested in the study of structural geology and tectonics.

Deleted: three members of the Division who are not current members of the Executive Committee, and (ex officio) the Chairman of the Division. The three (3) members will be chosen by the Executive Committee, and members will be chosen by the Executive Committee according to the following regional distribution: one member from Ontario and Manitoba combined, and one member for provinces west of Manitoba and Territories combined. No one shall serve on this Committee for two consecutive years

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The Executive shall comprise the Chairman, Vice-Chairman, Secretary-Treasurer, and one or more Councillor.
Vice-Chairman

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Article V

1. The Chair, or the Chair's designate in the absence of the Vice-Chair, shall preside at meetings of the Division.
2. The Vice-Chair shall have and assume the powers and duties of the Chair in the event of the absence or disability of the Chair.

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3. The Secretary shall keep the records of the proceedings of the Division and the Executive Council. The Secretary shall issue notices of all meetings.
4. The Treasurer shall collect and disburse all funds and shall have the custody of all funds of the Division. He or she shall deposit such funds in the name of the Division in a bank or trust company designated by the Executive. The Treasurer shall report at the Annual Meeting of the Division on all financial transactions since the last previous report, and on the balance of money in his/her hands.

- Deleted: Secretary-Treasurer
- Deleted: -Treasurer
- Deleted: shall also act as the Secretary to
- Deleted: and keep the records of its proceedings
- Deleted: -Treasurer
- Deleted: The Secretary-Treasurer shall keep a complete list of the members of the division and their places of residence.
- Deleted: Secretary-
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- Deleted: Secretary-
- Deleted: in writing
- Deleted: General
- Deleted: and the Executive
- Deleted: his/her
- Deleted: receipts and disbursements of funds and other
- Deleted: By-Laws
- Deleted: mailed
- Deleted: ballots
- Deleted: and/or the nature of the proposed rescission of the by-laws
- Deleted: mailed
- Deleted: with the ballots
- Deleted: letters
- Deleted: addressed
- Deleted: -Treasurer
- Deleted: Executive
- Deleted: mailed
- Deleted: the general mailing preceding the next Annual Meeting

Article VI

1. By-Laws of the Division may be adopted, amended or rescinded only by voting members. Votes on such constitutional changes shall be carried out by ballots communicated using the method used by the GAC for communication with members, and proposed changes shall be approved only if a majority of the votes received by the specified date are in agreement. Copies of the proposed by-laws and amendments shall be communicated by the Executive Council to the voting members of the Division not less than twenty (20) days nor more than forty (40) days before the specified voting date.
2. Proposals of Amendments: Any quorum of members may, by communication to the Secretary, recommend to the Executive Council the adoption, amendment or rescission of a rule, and the Officers of the Division shall carry out a ballot vote on the proposed amendment no later than six (6) months after receiving such recommendation.

Article VII

The Constitution and By-Laws of the Division shall be consistent with the constitution, By-Laws, Rules and Regulations of the Geological Association of Canada.