



Winter 2020

www.canadiantectonicsgroup.ca

THE MAIN THRUST

***NEWSLETTER OF THE CANADIAN TECTONICS GROUP DIVISION OF THE
GEOLOGICAL ASSOCIATION OF CANADA***



Cormack, Nfld 2019 CTG Workshop

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1. 2019 Canadian Tectonics Group Annual Workshop

For the first time in the 39-year history of the Canadian Tectonics Group (CTG), the annual fall meeting was hosted in Newfoundland, from October 4 to 6, 2019. This excellent workshop and field trip was organized by John Waldron (University of Alberta), with help from Dawn Kellett (GSC Atlantic), and James Conliffe (Newfoundland and Labrador Geological Survey) of the GAC Newfoundland Section. The spectacular geology of Western Newfoundland was prominent in the development of plate tectonic theory as applied to orogens and remains an important part of Canadian tectonic heritage. The Cormack region (north of Deer Lake) in western Newfoundland was the base for the field trip and workshop. The participants who assembled in Cormack included members and students of the Canadian tectonics community from across Canada, Newfoundland government geologists, industry professionals, and a strong student contingent from Memorial University. In addition, several Parks Canada workers joined us on day 1 of the field trip to learn more about the geology of Gros Morne National Park.



John describes the regional geological framework as participants take a break partway up Table Mountain. Photo by D. Archibald.

Due to the logistical challenges associated with travel to western Newfoundland, an additional day was added to the fall meeting, making it a three day event. Participants trickled into Cormack late into Thursday evening. On Friday morning, and after a first stop right at our accommodations, we piled into vans and began with several

field trip stops along Highways 430 and 431 including locations in the Long Range Inlier (Mesoproterozoic basement of the Laurentian margin), spectacularly folded rocks of the Cambrian Port au Port Group, and quartz-rich turbiditic sandstone of the Curling Group. Just before lunch, we stopped at the Visitor Centre near the entrance to Gros Morne National Park. John was involved in creating the informative geological display housed in the Visitor Centre that highlights the remarkable geology of Western Newfoundland.



The Moho. Gabbro representing the crust (top) underlain by mantle peridotite (bottom). Photo by D. Archibald.

We then continued along Highway 431 to the base of the Tablelands hiking trail. Table Mountain displays a deep section through oceanic lithosphere and is famous for its ultramafic rocks indicating exposed lithospheric upper mantle. The mantle section is mainly peridotite and the oxidation of Fe-bearing minerals is responsible for the rust colour that is characteristic of the weathered surfaces. The peridotite is mainly tectonite harzburgite with olivine (mostly replaced by serpentine) and orthopyroxene. The harzburgite displays a tectonic fabric and represents the lithospheric upper mantle of an oceanic plate that formed as the solid residue of partial melting beneath a spreading center. Participants traversed the mantle-crust boundary by embarking on a challenging 3.5 km hike up onto the Tablelands with several (breathing and geological) stops along the way culminating with outstanding outcrops of the Moho. To the west, gabbro dominates the landscape and to the east; the landscape is dominated by the orange-weathering peridotite. We then hiked back to the cars and returned to Cormack for a traditional Newfoundland dinner consisting of fish and brewis.

On Saturday morning, we drove to Corner Brook through the Humber River Valley. The first stop was Captain Cook's Lookout that provided panoramic views of the city of Corner Brook, the carbonate-dominated rocks to the east, the Humber Arm to the north, and the Bay of Island ophiolite to the west. The structure on top of the hill is notable because the beds dip and young to the west but the cleavage planes pass downward through the beds. This is an unusual situation and shows that these rocks were deformed twice, once during westward thrusting (D1) in the Taconian Orogeny and again during deformation that produced the cleavage (D2), which probably transported higher rocks back toward the east. We then travelled south to Black Point on the Port au Port Peninsula to visit spectacularly folded section of the Middle Arm Point Formation (part of the Humber Arm Super Group). We spent the rest of the day visiting examples of the mainly Ordovician stratigraphy on the Port au Port Peninsula. These rocks were deposited when the passive margin of Laurentia came into collision with an arc-trench system beginning in the Late Cambrian. We then travelled back to Cormack for another traditional Newfoundland dish: jigs dinner. On Saturday night after dinner, the CTG business meeting was held followed by a small poster session.



John interpreting the spectacular folds at Black Point on the Port au Port Peninsula for the group. Photo by D. Archibald.

Day 3 got underway on Sunday morning with seven oral presentations representing a global scope, with talks on rocks from Western Newfoundland to Nepal. The meeting wrapped up around lunchtime so that everyone could catch their flights or drive back to St. John's.

The field guide and the program-with-abstracts volume can be downloaded from the CTG website at <http://www.canadiantectonicsgroup.ca/workshops.html>. We would like to thank the organizers, especially John Waldron, and all the contributors.

Donnelly Archibald (St. FX)

2. Students: apply for a grant of up to \$600 to attend GACMAC/Geoconvention in Calgary, May 11-13.

CTG will once again provide support to enable two students to attend the GACMAC Meeting. Priority will be given to a student or students who are presenting talks or posters on a tectonics and structural geology-related topic, and who wish to attend a field trip or short course (see Section 3 below). Students should contact the CTG Chair (dawn.kellett@canada.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 field trip, and how you expect to benefit from them;
- A transcript or transcripts of your academic record.

Deadline: March 28, 2020

3. We are looking forward to a rich and diverse tectonics and structural geology program at the upcoming 2020 GACMAC/Geoconvention, Calgary, AB:

CTG SPONSORED SESSIONS

Evolution of cratons and cratonic margins: the role of microscale techniques to unravel Precambrian tectonic processes. Daniele Regis, Eric Thiessen and Jillian Kendrick

This session will highlight research that investigates the geochemical, petrological, and geochronological evolution of Precambrian cratonic lithosphere irrespective of its geodynamic setting. This session welcomes advances in understanding petrogenesis, orogenesis, and/or crustal growth made using combined microscale observations and new analytical methods to inform macroscale tectonic processes. Microscale observations may include petrologic and in situ geochronologic analysis, grain-scale geochemical and isotopic compositions of accessory and major minerals that can be used to investigate the structural history and compositional evolution of cratons and their margins globally.

Evolution of northwest Laurentia: Taking stock after fifty years of progress. Robert MacNaughton, Karen Fallas, Beth Fischer, David Moynihan

The mainland Northwest Territories and adjacent Yukon record a lengthy history of sedimentary and tectonic processes on the present-day northwestern margin of Laurentia. From Proterozoic beginnings, this history spans the lengthy and controversial break-up history of Rodinia, eventual establishment of a passive margin, and the development of the northern Canadian Cordillera. As of 2020, it has been fifty years since regional-scale reconnaissance operations led by the Geological Survey of Canada painted the broad strokes this history. This

multidisciplinary session will focus on recent advances in understanding the region's evolution. The session has been spurred by the work of federal and territorial geological surveys and academic colleagues, leading to developments in bedrock geological mapping, stratigraphic correlation, dating using fossils and radiometric methods, and new interpretations of geophysical data. A key goal of the session is to encourage discussions that clarify the timing of tectonic, thermal, and fluid-flow events, and the interplays among tectonics, structure, stratigraphy, metallogeny, and petroleum systems. Student presentations will be especially welcome. If there is sufficient interest, the organizers intend to pursue publication of contributions as a special issue of a journal or a special publication.

Evolution of the Canadian Arctic Geodynamic models and the potential for resources. Keith Dewing and Elizabeth Turner

Exploration for hydrocarbons and minerals in the Canadian Arctic during the 1960s-1980s made some spectacular discoveries, including the largest conventional gas fields in Canada on Melville Island, and the Polaris and Nanisivik Zn-Pb deposits. Since that time, the understanding of the geological history of the region has changed enormously, and continues to evolve. This session will focus on advances in geodynamic models, tectonics, stratigraphy and igneous history, especially as they apply to understanding the resource potential. The goal of the session is to better understand the interplay between tectonics, thermal events, climate-ocean-atmosphere, and stratigraphy and how they affect ore and petroleum systems.

Geophysical Constraints on Geological Structures and Processes. Mostafa Naghizadeh

Geophysical images of 3-D spatial variations in physical properties, integrated with geological and geochemical information, can elucidate processes and structures from the near-surface to the deep lithosphere. This session is devoted to the application of geophysical methods to geological studies including, but not limited to, tectonic, mineral exploration, and geo-environmental targets, at scales ranging from continental to local. Examples from past and present large-scale projects such as Lithoprobe, POLARIS, Metal Earth and EON-ROSE are particularly welcomed.

Lithospheric deformation: from terrane accretion to continent collision. Eva Enkelmann, Hersh Gilbert, William Matthews, and Lydia DiCaprio

This session aims to attract contributions from geologists, geophysicists and modelers that investigate the processes associated with continental lithospheric growth.

Metamorphic processes and their tectonic implications: constraints from nature and modelling Fred Gaidies, Dave Pattison and Chris Yakymchuk

Contributions are invited that highlight advances in our understanding of metamorphic processes and their tectonic implications. Contributions based on theory, experiment and natural rocks are welcome. Possible topics include: field constraints, chemical analytical techniques/zoning, qualitative and quantitative textural analysis, phase equilibria modelling, kinetic modelling, petrochronology, P-T-t paths, tectonic inferences that derive from the foregoing. The session will be complemented by a one-day, pre-meeting short course "Phase equilibria modelling: approaches and pitfalls", and a four day, post-meeting field trip "Metamorphism and tectonics in the Omineca belt, southeastern British Columbia".

Philip S. Simony Session. Kevin Root and Margot McMechan

This session honours Philip S. Simony, Professor Emeritus at the University of Calgary, and recognizes his important contributions as a Cordilleran researcher and an educator. The major theme to be explored at this session is the somewhat controversial hypothesis that there is a major terrane boundary within the Canadian Rockies that separates North American from exotic Non-North American rocks. Published models include the Cordillera, SAYBIA, and Rubian ribbon continent hypotheses. We welcome data-based presentations that investigate the pros and cons of this topic. Presentations on other aspects of the geology of the Cordillera or other mountain belts, and presentations on general structural geology, are also welcome.

CTG SPONSORED FIELD TRIPS

Metamorphism and tectonics in the Omineca belt, southeastern British Columbia

Field trip leaders: D. Pattison (U. Calgary) & graduate students

4 days: Thursday May 14 to Sunday May 17, 2020

Foothills to Fairmont: A Rocky Mountains transect to the Trench

Field Trip Leaders: P. Pedersen, P. MacKay, K. Boggs, D. Eaton & the University of Calgary REDEVELOP Team

Co-sponsored by: GAC Geophysics Division and CGU Solid Earth Section

2 days: Friday May 8 to Saturday May 9, 2020

Southern Alberta Rocky Mountain Transect with Emphasis on the Crowsnest Alkaline Volcanic Suite

Field Trip Leaders: Robin Adair (U. New Brunswick) & Michelle DeWolfe (Mount Royal University)

2 days: Saturday May 9 to Sunday May 10, 2020

CTG SPONSORED SHORT COURSES

Rates and Dates: Dating methods and applications

Organizers: E. Enkelmann (U Calgary) and W. Matthews (U Calgary)

1 day: Thursday May 14, 2020

Quantifying sediment provenance and basin thermal histories

Organizers: E. Enkelmann (U Calgary) and W. Matthews (U Calgary)

1 day: Friday May 15, 2020

4. 40th CTG Fall Workshop in 2020

NOTE: We are thrilled to announce that our 40th CTG Workshop (2020) will be another CTG first – our first workshop to be held in the Superior province’s Abitibi region, from Oct 2-4, organized by Normand Goulet, Stéphane De Souza and Stéphane Perrouty. We hope to have further details to share in time for the GACMAC meeting. See you in October 2020!

5. Winners of Jack Henderson awards for best theses

We are very proud of the recipients of the Jack Henderson best PhD and MSc theses for theses completed during the 2018 calendar year:

PhD thesis prize:

Morgan Perrot, Université du Québec à Montréal for her thesis: “*Évolution tectonique des bassins sédimentaires tardi- à post- Taconiens des Appalaches du sud du Québec et du nord du Vermont*”, supervised by Alain Tremblay.

MSc thesis prize:

Mark Ahenda, Queen's University for his thesis: "*Protolith affiliation and tectonometamorphic evolution of the Gurla Mandhata core complex, NW Nepal Himalaya*", supervised by Laurent Godin.

Congratulations to both winners and their supervisors, and thanks to all our readers!

6. Winner of the David Elliott Best Paper award

The Dave Elliott award for best paper in Canadian structural geology and tectonics, with publication year 2018, was awarded to:

Renaud Soucy La Roche (Geological Survey of Canada-now at INRS), Laurent Godin (Queen's U), John Cottle (U California, Santa Barbara) and Dawn Kellett (Geological Survey of Canada) for their paper entitled "*Preservation of the Early Evolution of the Himalayan Middle Crust in Foreland Klippen: Insights from the Karnali Klippe, West Nepal*" published in *Tectonics*, 2018, 37, 1161-1193. Congratulations to Renaud and co-authors!

We would also like to acknowledge and congratulate two honourable mentions:

Guilmette, Smit, van Hinsbergen, Gurer, Corfu, Charette, Maffione, Rabeau and Svard for their 2018 paper "*Forced subduction initiation recorded in the sole and crust of the Semail Ophiolite of Oman*", published in *Nature Geoscience*, 11, 688-695.

Melosh, Rowe, Gerbi, Smit and Macey, for their 2018 paper "*Seismic cycle feedbacks in a mid-crustal shear zone*", published in *Journal of Structural Geology*, 112, 95-111.

Many thanks to those who read papers and submitted nominations. Without your time and effort this award would not be possible.

Forthcoming Dave Elliott Best Paper Award

We have now closed the call for submissions for the 2019 Dave Elliott Best Paper Award. Your councillors have prepared a shortlist of papers written *by authors based in Canada or dealing with Canadian topics and with a publication date in the 2019 calendar year*. Priority will be given to peer-reviewed publications. Submissions from the membership were also welcomed and submissions by authors are being considered. We will appoint a small committee of individuals not involved with any of the shortlisted papers to review the shortlisted papers and select a winner, to be announced at the Geoconvention in Calgary.

7. CTG Business Meetings

Business meetings of the CTG were held at the GAC-MAC meeting in Quebec City, QC, and at the CTG workshop in Cormack, NL in 2019. Minutes are included below.

The next CTG business meeting will be held at the GACMAC/Geoconvention meeting in Calgary, AB in May 2020.

CTG business meeting Quebec City, QC; May 2019

Date: May 13, 2019
Location: Quebec City Convention Centre, rm 301A
Present: 17 members
Meeting Chaired by: Dawn Kellett, chair
Minutes taken by: Edith Martel, vice-chair

The meeting was called to order by Dawn Kellett at 5:30P. **Approval of Minutes of last meeting at CTG, St-Martyrs-Canadiens**

Minutes were circulated by email. **Motion to accept minutes of previous meeting**

MOVED by _____John Waldron_____

SECONDED by _____Shoufa Lin_____

VOTE (Motion CARRIED)

2. Matters arising, not covered below

None

3. Treasurer's report (Submitted by A.V. Okulitch)

CANADIAN TECTONICS GROUP

Treasurer's Report: Fiscal Year, June 2018 – March 2019

Opening balance:	-	\$ 5 371.82
Paper statement fees:	-	\$ 43.50
Deposit fees:	-	\$ 0.00
Best paper prize for 2017:	-	\$ 0.00*
Best MSc thesis prize for 2017:	-	\$ 273.48**
Student travel grant for 2018:	-	\$ 600.00
Best PhD thesis prize for 2017:	-	\$ 500.00
Interest:	+	\$ 11.27
Membership fees for 2019:	+	\$ 0.00
Closing balance:	+	\$ 3966.11

Notes:

* Best paper prize to Jordan McDivvet remains uncashed.

** Prize was converted to US\$ through bank misunderstanding. No reimbursement from the student was requested. Reimbursement by the treasurer was waived by the president.

4. Awards

a. GAC Student support:

This year we had several students apply for funding to attend GAC. Pleased to deliver support to: Chantal Norris-Julseth of University of Toronto, who will be presenting "Structural evolution of the NE Lau Back-arc Basin: the effect of subduction-transform-edge-propagators on hydrothermal

systems”

Isabelle Therriault of UBC-Okanagan, who will be presenting “Structural characterization and geochronology of the Wager shear zone, northwestern Hudson Bay, Nunavut”

Tong Hong of the University of Waterloo, presenting “Evolution of the southern Beishan Orogenic Collage, NW China: implications for the closure of the Paleo-Asian Ocean”.

b. Dave Elliott award for best paper: *reminder that we rely on councillors to review the literature from the previous year, and anyone can nominate a paper they think was noteworthy (including self-nominations).*

This year’s Dave Elliott award for best paper goes to:

Renaud Soucy La Roche (Geological Survey of Canada), Laurent Godin (Queen's U), John Cottle (U California, Santa Barbara) and Dawn Kellett (Geological Survey of Canada) for their paper “[Preservation of the Early Evolution of the Himalayan Middle Crust in Foreland Klippen: Insights from the Karnali Klippe, West Nepal](#)”. The paper was published in *Tectonics*, 37, 1161-1193 (2018). *Citation: This paper is well written, clearly presented and represents a comprehensive contribution that carries with it far-reaching implications regarding the early tectonic evolution of the Himalayan orogen. The results presented are derived from a combination of many techniques that provide robust data used to elucidate the cryptic early evolution of the Eocene-Oligocene collision of the Indian and Asian continents. Within the hinterland of the Himalayan orogen this earlier tectonism remains elusive because it was pervasively overprinted by high T Miocene tectonometamorphism. However, the authors were able to tease out the earlier Eocene -Oligocene tectonism by analyzing in a klippen stranded within the foreland that escaped the Miocene overprint.*

2019 Honourable mentions:

Guilmette, Smit, van Hinsbergen, Gurer, Corfu, Charette, Maffione, Rabeau and Svard for their 2018 paper “[Forced subduction initiation recorded in the sole and crust of the Semail Ophiolite of Oman](#)”, published in *Nature Geoscience*, 11, 688-695.

Melosh, Rowe, Gerbi, Smit and Macey, for their 2018 paper “[Seismic cycle feedbacks in a mid-crustal shear zone](#)”, published in *Journal of Structural Geology*, 112, 95-111.

c. Jack Henderson prizes for best theses:

The best PhD thesis award goes to: Dr. Morgann Perrot of Universite du Quebec a Montreal, supervised by Alain Tremblay, entitled “Late-to-post Taconian tectonic evolution of sedimentary basins of southern Quebec and northern Vermont Appalachians.”

The best MSc thesis award goes to: Mark Ahenda of Queen’s University, supervised by Laurent Godin, and entitled “Protolith affiliation and tectonometamorphic evolution of the Gurla Mandhata core complex, NW Nepal Himalaya”.

5. CTG fall meeting 2019 announcement

2019 CTG Workshop, Cornerbrook, NFLD

Will be organized by John Waldron and Dawn Kellett. Looking for support/involvement from Nfld CTG community, and exploring funding sources for student attendance. Will be first fall meeting in Nfld in the history of CTG and SG&T.

Proposal for a fall field meeting of the CTG in Western Newfoundland

The CTG has never been to Newfoundland. Western Newfoundland was prominent in the development of plate tectonic theory as applied to orogenic geology and remains a much visited region of Canadian tectonic heritage.

A verbal proposal for the 2019 fall meeting received strong support at the annual meeting of the CTG in June 2019. John Waldron has agreed to be an organizational lead.

Venues

The meeting, as usual, would consist of one full day or two half days of field trips, plus one full day or two half days of talks. Suitable venues exist in the Deer Lake - Corner Brook region, where fall meetings of a conference on western Newfoundland Oil and Gas have attracted similar audiences to the CTG (20 - 60 participants). That meeting has been held at Marble Mountain Ski area, Humber Village Resort, and at the Glynmill Inn Hotel in Corner Brook. Any of these would be a suitable venue.

Alternative venues exist in the Stephenville – Port au Port area, and have been used by GACMAC field trips, but these are a long drive from Deer Lake airport: delayed flights could lead to long drives to ferry delegates to/from the airport. Stephenville airport has minimal scheduled service at present.

Potential field trip destinations:

1. Port au Port Peninsula - Authochthon and Humber Arm Allochthon (mainly sedimentary rocks), basin inversion, folds, thrust faults, petroleum. Furthest point 2 hr drive from Corner Brook
2. North and south shores of Humber Arm - deformed sedimentary and volcanic rocks of the Humber Arm Allochthon. Furthest point 1 hr drive from Corner Brook.
3. Ophiolite: Upper Mantle harzburgite tectonite overlain by crustal gabbros; pillow lavas of Skinner Cove assemblage. Both are 2 hr hikes on marked trails or barren ground.

Trip 3 has less structural content but for most Canadians is their only chance to see an intact ophiolite. The proposal that found most favour at the annual meeting was to extend the meeting by one day in order to include destination 3 as a possibility for delegates wishing to stay longer to see more geology. The regular one-day trip on Saturday or Sunday would then be destination 1 or destination 2 (which cover some of the same material).

Benefits:

CTG has never been to Newfoundland before.

Waldron has field guides for trips to destinations 1 and 2 derived from previous trips he has led with GACMAC and with WNL Oil and Gas meetings.

Fall is low season at the Marble Mountain ski area: we may get a deal.

Minivans can be rented from Deer Lake Airport. Marble Mountain is close (< 30 min)

GAC Newfoundland section runs a fall field trip and may wish to combine operations.

Destination 3 might gain input from Gros Morne National Park if held early enough in the fall.

Challenges:

Travel will be a challenge especially for delegates from western Canada.

Eastward travel to Newfoundland typically takes a whole day from most places in central and western Canada, though on most days several flights are available into Deer Lake with Westjet, Air Canada. Less frequent flights are available from Porter airlines or Provincial Airlines (PAL).

Outward travel to most parts of Canada can typically be accomplished during an evening, thanks to the time differences. However, travel out after 4 pm is typically possible on only a single evening flight, which is often heavily booked in advance. Delegates leaving in the evening will have to book early

and/or stay until the next morning. We would need to investigate holding a block booking with an air carrier, and/or some kind of charter booking.

Destination 2 is tide-dependent, especially at one locality which must be visited within 30 min of low tide. This will require careful planning and may dictate dates to some extent.

Weather challenges are present in all destinations in Canada. In general the fall weather in western Newfoundland is reasonable, but there is always the possibility that a trip may be affected by remnants of a tropical storm, as these do reach Atlantic Canada occasionally.

Delegates driving at night or dusk will need to be warned of the risk of collisions with moose.

Vote for dates of meeting 10 voted for October option, 6 or 7? voted for September dates

Dates will be finalized as October 3,4,5,6th

6. CTG executive open positions

Dazhi and I mentioned at the fall workshop that we were nearing the completion of our terms and were open to passing on our chair and vice chair positions and to contact us if you were interested in taking on one of these positions. I didn't hear back from anyone about the chair position, and I'm willing to serve another 3 year term. We are delighted that Edith Martel of the Northwest Territories Geological Survey has agreed to run for Vice chair. I hereby propose that we acclaim Edith into this position.

All in favour? yes

Opposed? none

7. Other business

Geoconvention 2020 in Calgary – brainstorm now some strong CTG sessions/workshops/field trips.

Call for proposal to come out next month.

Dhazi to become a counsellor

GAC needs to know who to make the check to – put in contact with Andrew Okulitch

Motion to close meeting:

Motion: John Waldron

Seconded: Donnelly Archibald

Meeting adjourned: TIME: ____ 6:38 _____

PM.

CTG business meeting Cormack, Newfoundland; October 2019

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

Date & Time: October 4, 2019 at 9:00 pm

Location: Rocky Brook Cabins, Cormack

Number of eligible members present: 11

Meeting chaired by: Dawn Kellett (chair)

Minutes taken by: Edith Martel (vice-chair)

1. Approval of Minutes of last meeting at CTG, St-Martyrs-Canadiens (see accompanied document)

Minutes were circulated by email.

MOVED by Donnelly Archibald

SECONDED by John Waldron

VOTE carried

2. Matters arising, not covered below

No business arising

3. Treasurer's report (Submitted by A.V. Okulitch)

CANADIAN TECTONICS GROUP
Treasurer's Report: Fiscal Year, June 2019 – May 2020

Opening balance:	-	\$ 2 760.08
Paper statement fees:	-	\$ 13.50
Transaction fees:	-	\$ 3.50
Best paper prize for 2018:	-	\$ 200.00
Best MSc thesis prize for 2018:	-	\$ 200.00
Student travel grant for 2020:	-	\$ 0.00
Best PhD thesis prize for 2018:	-	\$ 500.00
Interest:	+	\$ 2.49
Membership fees for 2019:	+	\$ 0.00
Net profit from CTG meeting, 2018:	+	\$ 595.35
Website management fee (2 years):	-	\$ 165.60
Closing balance:	+	\$ 1 675.32

Statement date: 18 September 2019

4. Awards

a. GAC Student support:

Call for applications ahead of GAC MAC abstract deadline in early 2020 – two \$600 awards, remind your students to apply! For student who is presenting at GAC to attend field trip/short course. Discuss with James Conliffe about whether can be easier to apply along with abstract submission. Can James Conliffe comment on whether GAC could collect donations specifically to CTG.

b. Dave Elliott award for best paper:

reminder that we rely on councilors to review the literature from the previous year, and anyone can nominate a paper they think was noteworthy (including self-nominations).

c. Jack Henderson prizes for best theses:

Reminder to submit your students' theses in early 2019. Call goes out in late January for nominations for 2019 completed theses. Edith is organizing.

5. CTG fall meeting 2020 – 40th anniversary of CTG fall workshops

Tentative proposal for Queen's U, Kingston – Laurent Godin to organize and Fried Schwerdtner to lead field trip.

From Fried: I would be delighted to serve as a co-leader or principal leader of a one-day field trip to the Composite Arc Belt (CAB), NW of Kingston, and help Laurent Godin in organizing the workshop. Hopefully, Toby Rivers would be willing and able to compose a field-guide with me, and act as a co-leader of the one-day excursion. This should not be too difficult in principle, as Toby and I studied the litho-structure of the Belmont and Bancroft domains in 2011-12, and we are currently re-examining the meso-structure the CAB boundary zone (Haliburton-Minden segment). Perhaps it would be most suitable to run a CAB transect along Ontario Highway 62, from Madoc to Maymouth (23 km north of Bancroft).

I am volunteering to serve as principal leader/co-organizer of the Sunday field trip, and propose taking the CTG members to southern parts of the Composite Arc Belt, western portion of the former 'Central Metasedimentary Belt'. Pierre Robin has offered to serve as a co-leader and Toby Rivers will hopefully follow suit. Originally, I had suggested to take the CTG crowd to the Belmont and Bancroft domains, but, because of its greater proximity to Kingston, it may be better to do a highway transect through the southern Mazinaw Terrane (mainly along Hwy. 41). I have worked on, and am familiar with, the entire terrane (see attachment), Pierre Robin has supervised an M.Sc. thesis in the south-central part, and Toby Rivers did his Ph.D. project in the northeastern part (of the Mazinaw terrane).

I would like to organize t-shirts for this occasion. Shall we have a logo contest? Who would be willing to lead that? Shauna has volunteered

POSSIBLE LOCATIONS AND LOC FOR 2021 MEETING.

Thunder bay in the future Mary-Louise

6. CTG executive open positions

We have been fortunate to have the long term service of Andrew Okulitch in the position of treasurer. He has mentioned several times that he would be happy to move on from this position. Is anyone interested in joining our executive for a 3 year term?

GAC HQ can do financial transactions so that treasurer's positions can be less cumbersome. Treasure's function is to approve cheques to be issued by GAC. Easier to transfer fees.

Mary-Louise makes a motion to transfer accounts to GAC ownership. Sydney second. Motion approved.

7. Other business

Geoconvention 2020 in Calgary - If you are involved, please make sure they communicate the list of sessions to the divisions so we can advertise appropriately.

Is GAC currently set up to accept CTG membership dues in the renewal process? What about charging a different registration price (+\$15) to non-members for CTG workshops, so as to recover membership-equivalent support from those who do not regularly renew their GAC membership? Would not apply to students because their CTG membership is free anyway.

CTG member gets a discount on CTG workshop, non-member pay an "extra" 15\$, for example

What procedure should we use for CTG mailing list? Opt-in or opt-out?
GAC has an opt-in opt-out already, suggestions to have an once a year email to ask if you want to unsubscribe, combine list from Frank Fuetter and current list, most prefer the option to opt out/
unsubscribe

Motion to close meeting:

Motion: Mary-Louise Hill

Seconded: everybody

Meeting adjourned: 9:33pm

8. Current CTG Executive and Councillors

Chair: *Dawn Kellett*, GSC, Dartmouth

Vice Chair: *Edith Martel*, Northwest Territories Geological Survey

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

John Waldron, University of Alberta, Edmonton

Joseph C. White, University of New Brunswick, Fredericton

Laurent Godin, Queen's University, Kingston

Dan Gibson, Simon Fraser University, Burnaby

Deanne van Rooyen, Cape Breton University, Sydney

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