

Canadian Geoscience Education Network Annual General Meeting
Sunday May 12, 2019
6:30 - 8:30 p.m.

Quebec City Convention Centre
Room 301 A

Present:

Lesley Hymers, Beth McLarty Halfkenny, Natalie Bursztyn (via web), Charly Bank, Eileen Van der Flier-Keller, Amanda McCallum, and Fran Haidl.

Meeting officially started at 6:42pm

Report of the Co-Presidents (Beth McLarty Halfkenny and Lesley Hymers)
See Appendix 1 for full Co-Presidents Report

Lesley thanks all for their efforts and contributions as this is her last year in the co-presidency and this is her last AGM meeting.

EdGEO workshop program

Workshops in Newfoundland, Nova Scotia, New Brunswick, Ontario, Alberta & British Columbia. \$15K in grants, 130 teachers reached. Beth explains the 1 week teacher course that took place in July, with 11 teachers brought to the Queen's Biology Field Station (summer camp setting). Participants went out every day to look at geological processes and spent the days discussing how to explore and learn about geologic processes and the geologic history of the area. By the end teachers were asked to generate a cartoon of the geology of the area and to come up with an activity they could take back to their classes. BC workshop run in conjunction with RFG.

Geoscience Aware Challenge

Collaborative effort among CGEN, Government of Manitoba, Mining Matters and Women Who Rock resulting in a Guide Leader Training workshop to prepare for the implementation of the Challenge with their Groups (40 Sparks-Pathfinder Leaders). The Geoscience Day Workshop that supported the first cohort of Guides (toward the completion of the Challenge) involved 200 participants from Sparks to Pathfinders. The workshop goal was to make sure the leaders knew how to deliver the activities. Activities come from places like EdGEO, Earth Learning Ideas and Mining Matters. Future plans involve expansion into new jurisdictions, and adding the document to the CGEN website.

[http://www.girlguides.ca/WEB/Documents/MB/Challenges/GeoscienceChallenge\(2018\)reduced.pdf](http://www.girlguides.ca/WEB/Documents/MB/Challenges/GeoscienceChallenge(2018)reduced.pdf)

Geoscientists in Canadian National Parks

Objective was to have a program in Canada comparable to GeoCorps in the US. Pukaskwa on the north Shore of Lake Superior was the first park to get involved. On track for delivery in 2019

(August 12-26). Now writing a formal partnership agreement. Need to have insurance for when the geologist is on site so that they are covered by Parks Canada as the GNCP will be an official Parks Canada Volunteer while they are conducting the Parks Canada work. Pukaskwa has OTENTiks set up for accommodations and geologic displays to be managed by the volunteer. Pilot program will take place this summer. Once the first is delivered successfully, will expand to other parks in Canada. Artists in residence volunteer programs in place in some of the parks already with a similarly set up volunteer position. Was intended for the preference to be given to an upper level geology student, however it is clear that to ensure success and safety, the position should be filled by a retired or experienced geoscientist.

RFG 2018

Ongoing question - do we want to continue with RFG in the future? RFG 2018 included: Education and Knowledge Technical Session (>100 delegates presenting in 14 Sessions and five Panel Discussion) as well as a Short Course/Workshop-Communicating Earth Science, and an Earth Science Educator Professional Learning Workshop. All included good positive feedback. Collaboratively working on an Educational Outreach and Public Engagement Guidebook as a "how to" with timelines for others to use as a resource. An action item is to talk to Dene Tarkyth (GAC president) as they are reorganizing duties for local organizing committees.

Call to compile both the activities delivered at the Earth Science Educators Professional Learning Workshop and all the geologists who contributed's "Earth Science Educator Story". Chris King's legacy project "My Earth Science Educator Story" is an ongoing effort to showcase the diversity of who geoscience teachers are.

Websites Transition

Big transition for cost savings, updating graphics, and a format that allows us to operate without requiring a content manager (can be operated by CGEN webmaster). It will be hosted by Wix, currently working with Contractors (Graphic Designer and a Wix Developer) to rebuild all our old webpages (including the careers page). The process will take a few months to complete while CGEN (and Mining Matters) develop their Wix pages. At completion of this process the domain name will be transferred to the new site. CFES will continue to pay for the domain name and the web hosting fees.

Neale Medal

Congratulations to Beth McLarty Halfkenny, the 2019 winner!

Report of the Secretary (Natalie Bursztyn)

No report. Transition from Christy Vodden (Treasurer) to Natalie Bursztyn (Secretary-Treasurer) now completed.

Report of the Treasurer (Christy Vodden, by email)

See Appendix 2 for full Financial Report

As of April 30, 2019, the CGEN bank balance was \$21,858.13 (this includes \$474.67 held for the geoheritage project).

Incoming funding included two \$1,000 grants from the Canada Prize Foundation (for 2018 and 2019); \$5,000 from the Canadian Geological Foundation (CGF) to reimburse CGEN for expenses it covered for the final year of a three-year grant, managed by Eileen Van der Flier-Keller, to improve and promote the CGEN website; and a refund of \$315.20 from the \$500 grant CGEN provided for the teachers workshop in Vancouver linked to the AGM. One item for the Executive to follow up is the status of the 2019 grant (traditionally \$3,500) from our parent body, the Canadian Federation of Earth Sciences (CFES).

Outgoing funds covered costs incurred for the 2018 annual general meeting and the teachers' workshop in Vancouver; the geoheritage project (using funds held in the CGEN account for them); and bridge funding for the final year of the three-year CGF grant.

As this will be Christy's last report to CGEN after almost two decades in the Secretary-Treasurer position, she would like to express her admiration for the many people who give so freely of their time, expertise, and enthusiasm to CGEN. Christy says: It has been an honour and a privilege to have been part of CGEN along with you. Thank you.

Report of the CGEN Webmaster (Miriam Vos-Guenter, by e-mail)

See Appendix 3 for full Webmaster Report

Updates: several resources are now archived and accessible via the website, including CGEN minutes. English site has 2000-2500 unique visitors per week, French 25-50. Google is the most frequent referral site.

Maintenance: All to change with the new Wix site, however CGEN's Archive website and EarthLinks continue to be reviewed twice a year for broken links and changes in content. Resources or publications are added as requested.

Memberships & Recommendations: Registrations through the CGEN website are not being processed. Need to figure out a mechanism to keep the member list active, up to date, and secure. What can we do to engage our membership? We know people do outreach but we don't know about it. Discussed different audiences reached with different platforms (e.g. Instagram-photos, Twitter-news, Facebook-groups) and that we need to define our target audience (educators? Children? Professionals?)

Current and Future Projects

Two current projects: 1) Guidebook and 2) Website

Future projects: Canada 2020 and GeoParks.

See notes from Co-Presidents and Webmaster reports in appendices.

See Appendix 4 for Geopark report.

EdGEO Mission, Audience, Promotion

Had a bit of a challenge since Christmas, current EdGEO person resigned, Lesley has offered to take over. Need to re-engage about CGF grant and get up to speed with personnel transition. Need to make sure we have a mechanism for whoever wants to represent EdGEO to be able to travel and run the booth. Need to look at how we advertise EdGEO workshops - more like that we are available to help with workshops. Our “clients” are technically teachers, so we should be targeting school boards and teachers about funding mechanism to provide PD workshops in Earth Science. Not much uptake in Quebec. Need to define some specific jobs that people can do for EdGEO (promotion, chair, grants...). How do we engage donors? If so we need some document explaining what we do and our mission. Do we also need a reporting document?

Communications

See Appendix 5 for full Communications Committee Report

Thread woven throughout above minutes. Natalie will inquire about GSA’s “Connected Community” for communication and maintaining an active membership list, might be a good tool for CGEN as well. GSA uses HigherLogic to power their community platform (www.higherlogic.com)

GeoCanada 2020

Want to make sure that this is on CGEN’s radar. Will be in Calgary. Opportunities to include Earth Sciences for Society at GeoCanada 2020, Calgary in June.

GSA 2020

Need to make sure this meeting is on the calendar - disadvantage for RFG was there was no scope of work. GSA 2020 (Montreal, in October) does have that. This means 2 national meetings in 1 year in Canada. How do we prioritize/take advantage?

Other

Amanda asks if there is a mandate, roles, responsibilities document for CGEN? Need to have some governance document in place. Is there a constitution/bylaws? Covered under governance and mission of CFES? It was suggested that CGEN undertake a strategic exercise to define governance and mandate beyond the current terms of reference.

Eileen shared that Simon Fraser University’s new interdisciplinary science course for students intending to become teachers will be offered for the first time in Fall 2019. SCI 192 The Science Around Us is a studio style, hands-on course designed to fulfill the Lab Science Requirement for emerging K-8 teachers.

See Appendix 6 for additional reports from Carleton University and U of T.

8:30 pm Meeting adjourns

Natalie Bursztyn, Secretary-Treasurer, June 6, 2019



**Canadian Geoscience Education Network Annual General Meeting
May 12, 2019
Co-Presidents' Report**

Geoscience Aware Challenge

The "[Geoscience Aware Challenge](#)" booklet was developed for the Girl Guides of Canada, Manitoba Council, in partnership with the Government of Manitoba, the Canadian Geoscience Education Network, and Mining Matters. The purpose of the Challenge is to inspire Guides whose activities are often linked to the outdoors and science, to explore geoscience through STEM and build awareness of Manitoba's mineral resources and their value to the province and daily life. The Challenge explores Geoscience Literacy Principles, through more than 30 hands on learning activities. Guides earn their Challenge badge by completing a prescribed number of activities, associated with each of the Geoscience Literacy Principles.

The Geoscience Aware Challenge was officially launched at the Girl Guides of Canada Manitoba Council 2018 **Provincial Annual Convention**, on April 2018. At the Convention, 40 Leaders, from across the Province, participated in an activity training workshop to help prepare them to implement the Challenge with their Groups. In October 2018, 200 Guides participated in "**Geoscience Day**", a workshop delivered with the objective of supporting the first cohort of Guides toward the completion of the Challenge. At the event, several of the Challenge activities were showcased, providing participants with an opportunity to complete them and meet some of their badge requirements.



The badge design was created by Brian Primmer of Minke Designs. It features graphical elements representing each of the Earth Science Literacy Principles that are explored in the Challenge. The badge design received final approval from Guides, in October, 2018. The first batch of badges will be stitched in the Spring.

Interest has been expressed to expand the Challenge into other jurisdictions. Preliminary discussions have already been undertaken to develop a version for the Northwest Territories (and potentially, Nunavut). This will involve adapting some content so that it relates to new regions. Recommendations have been made to consider developing a pan Canadian version of the Challenge and to approach Scouts Canada to gauge their interest in adopting the Challenge into their Program.

Geoscientists in Canadian National Parks Pilot Project

The “Geoscientists in Canadian National Parks” (GNCP) initiative has been in development since 2017. The concept was forwarded onto the Canadian Federation of Earth Scientists, for consideration as an initiative for implementation. CGEN championed the initiative, developing the concept of a Geoscientist in Residence Volunteer opportunity and engaged Parks Canada. Parks in Ontario and Newfoundland showed initial interest in the proposal and a Pilot Project was developed for implementation at Pukaskwa National Park, in Ontario.

The Park is interested in reinvigorating the geoscience elements present in the park that figured prominently in its original plans. With this in mind, the Pukaskwa Park Pilot Project was developed to include a two-week residency where the “Volunteer” will provide four visitor engagement activities, including brief presentations/talks with visitors in the Visitor Centre or on site, a guided hike, or another opportunity, supported by a Park Interpreter. The Volunteer will also provide two information sessions on the geology/geosciences in Pukaskwa National Park to the Parks Interpretation staff and Resource Conservation staff, including a general information session, and an on-site guided hike in the front-country of the park.

In addition to what is outlined above, there are three additional areas of interest for projects, including adding to the interpretive knowledge of the Southern Headland Trail, including signage, adding to the interpretive knowledge of the recently described “Mars style rocks”, located in Pulpwood Harbour, and the Pic River Dunes.

Funds were sought to support the accommodation, transportation and food expenses incurred by the Volunteer. The Association of Professional Geoscientists of Ontario Education Foundation has committed to the funding of the Pilot Project.

In 2018, Park staff transitioned and the final planning of the Pilot could not advance. CGEN was successfully able to reconnect with the Park, this season. The Pukaskwa Park Pilot Project received final approval, in March of 2019 and is set to be delivered in **August 12-26, 2019**. The date has been set and an oTENTik site has been reserved.

The remaining tasks include finalizing a formal Partnership Agreement and Communications Plan which are additions to the Project. The development of the agreement and plan are being lead by Parks Canada and will be available for review and approval in the near future.

CGEN members and other stakeholders hope that Geoscientists in Canadian National Parks Program can be developed and implemented in other Parks and Provinces, subsequent to its initial delivery.

Resources For Future Generations 2018 Conference

CGEN members made significant contributions to the planning and delivery of the Education, Outreach and Early Career components of the Resources for Future Generations 2018 Conference. “Education and Knowledge” was added as the sixth theme of the Conference. The elements of this theme were planned and delivered by members of the Education, Outreach and Early Careers Committee, comprising 18 representatives from 6 different countries, including CGEN members from across Canada. As part of Conference planning, the Committee assembled a comprehensive Education, Outreach and Early Career

Technical Program and developed additional elements, including a Short Course, a Workshop and an EarthCache® and aimed toward Conference Delegates, Educators, Students and the Public. The Technical Program involved more than 100 delegates presenting in 14 Sessions and five Panel Discussions.

The “Communicating Earth Science: Interactive Professional Development for Everyone” short course examined effective approaches to science communication. Over 30 delegates from around the world participated in the interactive session that explored communicating to a range of audiences through a variety of messages and formats.

The “Earth Science Educator Professional Learning Workshop” short course focused on Sustainability and the Conference themes of Earth, Minerals, Water and Energy. Facilitators from Canada and the United Kingdom lead participants through an opening session that included hands-on learning activities focused on the UN Sustainability Development Goals and how geoscience and geoscientists are helping to achieve them. The second session focused on renewable energy and the minerals used to manufacture solar cells and other “green” energy infrastructure. Andrea Chong (BGC Engineering) led a hands-on investigation of Water, exploring aquifer systems, the porosity of materials, and the movement and mitigation of contaminants. This preceded a demonstration of Hollow Lens technology as applied to remediation at the Giant Mine, in Yellowknife. The day concluded with a discussion about the challenges of teaching Earth Science and the new British Columbia Curriculum.

An EarthCache® is a special geological location people can visit to learn about a unique feature of the Earth. The RFG 2018 EarthCache® was created as a means to engage the public in local geology and in the wider Conference. The EarthCache® Program incorporated a series of twelve Vancouver area EarthCaches and six EarthCaches located along the scenic Sea to Sky Highway, including one created specifically, for the event. The Program is a legacy project of the Conference.

The Canadian Geoscience Education Network and EdGEO hosted a booth in the Exhibition where Members and representatives from across Canada were able to engage with delegates and other informal educators, from around the world.

The Legacy projects are underway. The development of the Educational Outreach and Public Engagement Guidebook is in progress and will be completed in Spring, 2019. The wider Geoscience Community and RFG 2018 Education and Outreach program delegates and participants will be engaged to contribute to other legacy projects including submitting their “My Earth science educator story” to the International Geoscience Education Organization and the activities they delivered at the RFG 2018 Earth Science Educators Professional Learning Workshop.

Canadian Geoscience Education Network Websites Transition

This project is part of a wider CFES project that will see the restructuring of the earthsciencescanada.com hub. A path forward has been developed that will see the migration of the earthsciencescanada.com to a Wix platform, and a discontinuing of our partnership with Sland Studios. The transition project will involve the CFES Communications Director creating a new Wix account for earthsciencescanada.com, along with the non-CGEN pages hosted under that domain (e.g. the hub/landing page, IYPE). The Wix login credentials are then shared with the CGEN webmaster who adds the earthsciencescanada.com/CGEN pages (including the careers website).

The initial web site transition project involved updating the content of the Earth Science Careers site but has expanded to also include the CGEN and Earthlinks sites. The Archives Site is hosted on a Weebly platform. The WHERE Challenge website will also transition.

Given the number of websites and the redevelopment, CGEN will be working with a Contractors (Graphic Designer and a Wix Developer) to build our webpages, including the Earth Science Careers website. The process will take a few months to complete while CGEN (and Mining Matters) develop their Wix pages. When this process is complete the domain name will be transferred to the new site. CFES will continue to pay for the domain name and the web hosting fees.

Appendix 2

**Canadian Geoscience Education Network
2018-2019 FINANCIAL REPORT**

Balance at last report (as of April 30, 2018) \$18,317.93 (1)

Incoming funds

| | |
|---|--------------------------|
| Canada Prize, rec'd June 27, 2018 grant for 2018 | \$1,000.00 |
| Canada Prize, rec'd March 7, 2019, grant for 2019 | \$1,000.00 |
| Refund from CGEN grant for 2018 teachers workshop, RFG* | \$315.20 |
| CGF, reimbursement for year 3 of 3, Grant 14-11 | <u>\$5,000.00</u> |
| Sub-total incoming | +\$7,315.20 (2) |
| <u>Total (lines 1 and 2)</u> | <u>+\$ 25,633.13 (3)</u> |

Outgoing payments

CGEN core activities/administration

| | |
|---|----------------|
| Grant for 2018 teachers' workshop, RFG, Vancouver (Beth)* | \$500.00 |
| Shipping costs for CGEN banner to RFG (Lesley) | <u>\$60.69</u> |
| Sub-total | -\$560.69 |

Geoheritage project

| | |
|--|-----------------|
| Lafreniere, OGGP website, annual charges for website | <u>\$149.88</u> |
| Sub-total | -\$149.88 |

CGEN website, CGF grant, year 3 of 3***

| | |
|---|-----------------|
| Honorarium, Marg Rutka (social media) | \$200.00 |
| Miriam Vos-Guenter, Geoscape Rescue Project | \$2,487.50 |
| Miriam Vos-Guenter, Geoscape Rescue Project | <u>\$376.93</u> |
| Sub-total | -\$3,064.43 |

Sub-total outgoing -\$3775.00(4)

BALANCE as of April 30, 2019 (line 3 minus line 4) **\$21,858.13**

(Includes \$474.67 held for geoheritage project)

* CGEN will award up to \$500 to support the teachers' workshop at the annual geoscience conference (for 2018: Resources for Future Generations in Vancouver). Beth McLarty-Halfkenny refunded to CGEN monies not spent for the workshop.

** CGEN executive voted, on November 21, 2017, to provide a grant of \$750 to the Ottawa-Gatineau Geoheritage Project (OGGP), managed by Alan Donaldson, to cover expenses for the next five years. This was added to the 2016-2017 carryover of \$22.04 in the geoheritage account held by CGEN.

***_Cheque for \$800 honorarium issued to Shona van Zijl de jong in March not cashed until after reporting period. This will have to be reported in 2019-2020 financial report, under "CGEN website, CGF grant, year 3 of 3" as "Honorarium, Shona van Zijl de jong (social media) \$800.00"

Christy Vodden

Treasurer

May 7, 2019, revised May 30, 2019

Treasurer's Report, CGEN AGM, May 12, 2019

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Christy Vodden
Treasurer
May 7, 2019

2019 CGEN AGM - Report of the CGEN Webmaster

(Miriam Vos-Guenter)

1. Updates:

- *Four Billion Years and Counting* (FBY)
 - a) multiple links to the book site have been added to the navigation areas of the CGEN website and the archive site;
 - b) the FBY PowerPoint files have been converted to PDF format for easy previewing of FBY images (visitors must still visit the FBY website to access the images)
 - c) a sample lesson using FBY images and related resources (Thank you Beth!) has been added to the archive site
- CGEN Minutes – Nine additional meetings (1996-2000) have been scanned and added to the archive.

2. Usage: (for Archive site only)

- English version – 2000-2500 unique visitors per week. Twice as many page views per week.
- French version – 25-50 unique visitors per week. Up to 6 times as many page views per week.
- 2018-2019 stats: English stats are up 5-10% from previous years; French version has fewer visitors but more page views per visit.
- Most visited page last month - *ottawa-gatineau-flooding*
- google.ca/.com are still the most frequent referral sites by a factor of 10-20

3. Maintenance:

- The CGEN main website, CGEN's Archive website and EarthLinks continue to be reviewed twice a year for broken links and changes in content.
- Resources or publications are added as requested (i.e. "Exploring Geoscience Across the Globe" written by Chris King)
- EarthLinks - Approximately 20 sites no longer exist or have no equivalent replacement. This indicates that many sites have been restructured and/or older resources have been eliminated since I can usually find replacement urls.
- Memberships – Registrations through the CGEN website are not being processed. Visitors are asked to check out the newsletter and social media sites. The actual pages were locked on the backend by the developer and cannot be removed from the website.

4. Recommendations:

- Membership Page - archive the membership list and delete all of the entries from the live site.

May 3, 2019



May 12, 2019

RE: CGEN 2018-2019 Activity Report for the Discovery Aspiring Global Geopark

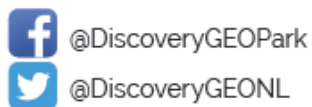
The Discovery Aspiring Geopark Incorporated, located on the Bonavista Peninsula of Newfoundland Labrador has applied for UNESCO Global Geoparks (UGGp) designation. As a candidate for UGGp designation, Discovery is one of fourteen areas around the world short listed for a Field Inspection Mission during the summer of 2019.

Launch of Branding and Marketing Materials

The Discovery Aspiring Geopark uses a variety of marketing materials to promote its activities. The following is a list of marketing materials:

- Brochure and stationary package;
- Trade show pop-up banner and tear drop flag;
- Post cards and stickers
- Photographs, including HD drone imagery
- Interpretative signage
- App and social media account

Launch of Social Media



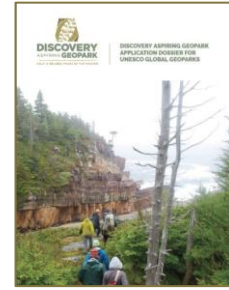
Branded Interpretative Panels

The Discovery Aspiring Geopark launched its own brand of **Geosite Interpretative Panels**. The five Geosite Interpretative Panels include:

1. Town of Trinity – Gun Hill Trail – Trinity;
2. Port Union – Murphy’s Cove to Lodge’s Pond Trail – *Haootia*;
3. Elliston – Root Cellars;
4. Bonavista – Lisbon Earthquake;
5. King’s Cove – Lighthouse Trail – Brook Point.

Application Dossier for UNESCO Global Geoparks

In November, 2018 the Discovery Aspiring Geopark application was officially submitted by the Canadian Commission for UNESCO. The application dossier follows a prescribed format and topics as outlined by UNESCO Global Geoparks. The application includes a 50-page dossier and 7 annexes.



Education Programming

Curriculum-linked Earth Science workshops were delivered to four schools within the Aspiring Geopark boundary in April 2019. Schools include:

1. St. Mark's School, Grades 4-6, King's Cove
2. St. Matthews's Elementary, Grade 4, Bonavista
3. Catalina Elementary, Grade 4, Catalina
4. Bishop White, Grades 4-5, Port Rexton

Students completed hands-on, learning activities. Activities include the three rock types, physical testing of minerals and a mineral and product matching activity.

A *Fossil Mascot Design* Contest was also launched during the workshop series. The contest invites students from Grades 4 to 6 to design a fossil character mascot and suggest a name for the Discovery Aspiring Geopark. Mascot designs must be based upon the logo icon, and Ediacaran fossil known as *Fractofuscus Andersoni*.

Canadian Geoscience Education Network

Communications Committee Report

8 July 2018

Report in Brief: CGEN Communications Strategy 2016-2020

- Activities of CGEN Digital Strategy Coordinator (2014-2018) working on providing CGEN with some good feedback re: communication initiatives and user metrics and coordinating efforts of volunteers to ensure communication outreach
- Call for Volunteers

Activities of CGEN Digital Strategy Coordinator (2014-2018)

- getting communication initiatives up and running
- collecting user metrics and providing some metric analysis
- cross promoting material for best possible results
- providing suggestions on digital marketing for CGEN
- coordinating efforts of volunteers to ensure communication outreach
- learning how to process general incoming social media (see addendum)
- Working on providing CGEN with some good feedback re: communication initiatives and user metrics (see details below)
- Every week - CGEN social media is getting more followers and uptake by the geoscience community (i.e PDAC and the Ontario Geological Survey are now re-posting CGEN FB posts).

Activities of CGEN Geoscience Content Creators

- Marg Rutka is still on board as a volunteer as a CGEN social media content creator

What's Working, What's Not Working

What's Working

- Content and community building to support CGEN
- Branding – strategically
- Social media for collecting metrics (see addendum)
- Volunteers taking on the position of content creation

What's Not Working

- Making assumptions about longer term interest
- Getting solid commitment from volunteers

- Commitment from volunteers to assume the responsibilities of the role: Digital Strategy Coordinators

Action Required

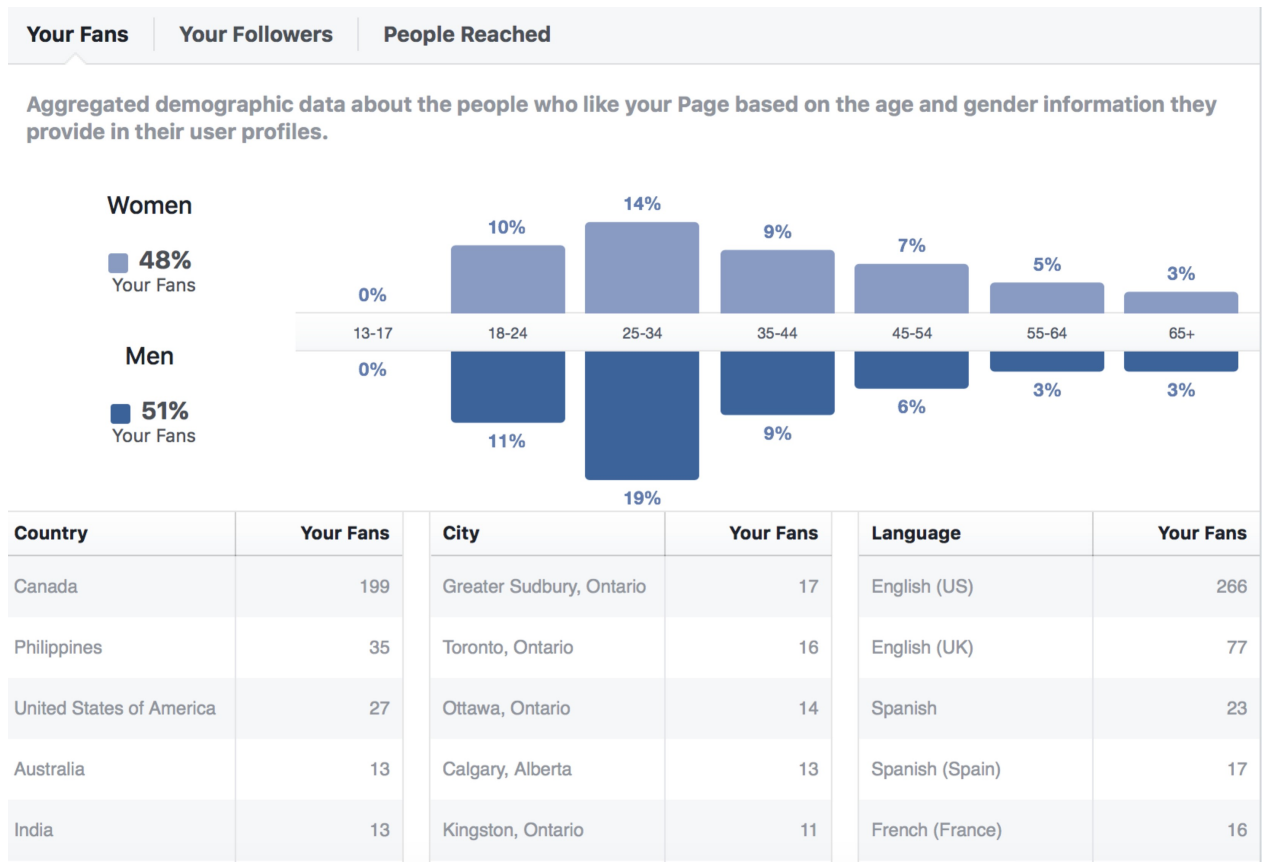
- Put out call for volunteers, focus longer term commitments - roles and responsibilities

ADDENDUM

19 Jan 2015 to 8 July 2018: Communication venue, who runs it, and number of members

| Communication Venue and Link | Who runs it (Administrator and owner) | 2016 Number of members | 2017 | 2018 | Additional notes (CGEN Communication Working Group) |
|--|--|-------------------------------|----------------------------|---------------------|---|
| CGEN Webpage http://earthsciencecanada.com/cgen/ | Miriam and? (Partner organization? CFES?) | | See Miriam's report | | |
| CGEN Newsletter / Blog http://www.cgenarchive.org/cgen-newsletter | Christy / Miriam | 143 subscribers | | 150 | Members subscribe to newsletter The newsletter/blog allows for comments, but none have ever been made. The email notice on new posts, however, is very effective, so the information is being read on the desktop rather than on the website. Posts that request an action/response to a email address (e.g., RSVP to AGM) do elicit a response. |
| CGEN membership list | Miriam See below | | | Miriam See below | Members on list |
| Twitter https://twitter.com/CGENNews | Miriam ? CGEN Digital Strategy Coordinator: | | | | Geoscience Content Creators |
| Linked in Group https://www.linkedin.com/groups/8247050 | Shona CGEN Digital Strategy | 147 | 158 | 174 | Many are not on the CGEN membership list Geoscience Content Creators: Shona |

| | | | | | |
|--|---|-----|-----|------------|--|
| | Coordinator: | | | | |
| CGEN Facebook Page https://www.facebook.com/CGEN2CanadianGeoscienceEducationNetwork | Shona, Lesley, Christy and Marg CGEN Digital Strategy Coordinator: Shona | 114 | 280 | 449 | FB Page provides CGEN good metrics on user engagement Many are not on the CGEN membership list Geoscience Content Creators: Shona, Marg, |
| Instagram | CGEN Digital Strategy Coordinator: | TBD | | | Seeking user engagement (age demographics - 20-35 yrs) Geoscience Content Creators: |



Report for Carleton University, Department of Earth Sciences

2018/19 marked a busy year for our Earth Science Outreach Program.

This past July, we offered a one-week teacher field trip, allowing 11 educators to experience learning and teaching using inquiry and place-based learning methods, with Earth Science as the topic. The Queen's University Biology Research Station was used as our home base for the week, which provided not only cabins but wonderful food and a great space for evening consolidation, networking and discussion. Each day, we visited local outcrops, rivers and lakes to look at both modern sedimentary systems and processes, and ancient rocks. These sites allowed us to explore investigation – determining questions, data collection methods, what to do with the data, and making sense of it. We hoped to be able to put the sites together at the end of the week into a general story of the geological history of the area. We had lots of positive, constructive and inspirational feedback and will use this to refine the experience with more exploration of study sites and methods this summer, so that we will offer the course again in summer of 2020. Funding for this pilot project was generously provided by a grant from the CGF, as well as revenue from our new summer camp program (see below).

150 kids aged 8 to 12 years participated in our Earth Science and Sports camp during 3 weeks in August, marking our 3rd year of this very successful program. This continued source of revenue is held in a special fund outside of our general revenue stream to be used to fund teacher professional development programs such as the Teacher Field Course mentioned above.

We continue to work with schools offering the Ontario Grade 12 Earth and Space Science course, supporting teachers through workshops and providing teaching resources. We also visit Grade 4 classes to help with Earth Materials units, as well as growing requests to assist in Grade 9 Geography to support physical geography units, and to generally provide more experiential learning opportunities, and continue to support home school groups. We are concerned about the proposed increase to Ontario class sizes, and have heard from a number of teachers indicating their principals have already cut the Grade 12 ES course due to low class sizes. This will be problematic and something we will have to get creative to address in the future, as there is very little ES in the curriculum to begin with.

We hosted a Kids Mineral Exploration table at the annual Ottawa Lapsmith and Mineral Club's Gem and Mineral Show in September for the third year, providing an opportunity for our grads and undergrads to volunteer, and hosted Earthquake activities at the Canadian Science and Technology Museum's Cool Science event as part of Winterlude.

We ran an Enrichment Mini-Course again this year the first week of May – this program offers a variety of week-long courses for grade 8 to 12 kids at three Ottawa Universities; Carleton, University of Ottawa and La Cité Collegiale. Courses are run by graduate students who design and deliver the program. Our program allowed the students to investigate various ES topics including volcanoes and earthquakes, and included a day trip to the Canadian Museum of Nature and a visit to Hog's Back Falls to see rocks in their natural habitat.

Short report from the UofT (by Karyn Gorra)

The U of T Department of Earth Sciences continues to work on building connections with High School Teachers to arrange class visits into our department and sending teams of Grad and Undergrad students to schools to offer hands-on activities customized with collaboration between the teacher and U of T student volunteers. These activities link into the science curriculum - Mineral ID, Fossils, Groundwater Contamination, Geologic Hazards – with approximately 15 classes participating. Classes visiting the department have done a combination of any of the above activities paired with lab tours, short research talks by graduate students and/or petrology lessons using microscopes. Additional educational outreach includes participation in the 1-week Science Unlimited Summer Camp at U of T hosting 50 students for an afternoon of Earth Sciences activities. This year we offered space to a STEM camp – hEr Volution Space Camp – with a full day of geology lectures, lessons and activities. The Toronto Young Mineralogists Club came for a microscope lab. Public outreach events on campus where the outreach team remains active are Science Rendezvous, Kids Passport to U of T and Fall Campus Day. We have increased our social media with regular posts on Twitter and Instagram about our outreach activities and we follow other interesting earth science stuff. Plus, there is increased work with Advancement and Alumni Relations to fund scholarships, field education and career development opportunities. Our student groups were active this year with the TGDG and Next Gen Geo.