

**Canadian Geoscience Education Network Annual Meeting**  
**2:00 p.m. – 6:00 p.m., May 29, 2012**  
**Duckworth Room, Delta Hotel**  
**St. John's, Newfoundland**

*Present:* Diane Baldwin, Charly Bank, Nancy Chow, Al Donaldson, Mark Fenton, Ed Frey, Fran Haidl, Beth Halfkenny, Brian Hitchon, Denise Hodder, Lesley Hymers, Luc Lafrenière, Sarah Laxton, Amanda McCallum, Randy Miller, Diane Noseworthy, Godfrey Nowlan, Joan Pearce, Debora Rios, Merna Summers, Eileen Van der Flier-Keller, Christy Vodden, Erica William, Jane Wynne

*Note:* The CGEN annual meeting was abbreviated owing to the packed schedule of education and outreach events at the St. John's conference. Highlights included a one-day EdGEO teachers' workshop; followed by a field trip of local geology for the teachers and others; a day-and-a-half special session on "Preservation of geological heritage and its contribution to education and economic development;" a public lecture on icebergs; and a post-meeting field trip to the Bonavista Peninsula. A big thank-you to Amanda McCallum, Diane Noseworthy and their team, who put in so many hours to produce such a wonderful and diverse program.

As a result, the CGEN meeting had a different format from past years, with a focus on priorities identified at the last meeting, issues arising during the year, and three breakout sessions. Most of the traditional agenda items of updates from the executive and leaders of core CGEN activities were submitted as reports and circulated to those who indicated they would attend the meeting. These are appended to the minutes:

- President's report (Appendix 1)
- Vice President's report (Appendix 2)
- Secretary-Treasurer's report (Appendix 3)
- International Year of Planet Earth legacy report (Appendix 4)
- Geoparks (Appendix 5)
- EdGEO (Appendix 6)
- Geoheritage (Appendix 7)
- Winnipeg 2013 (Appendix 8)

CGEN members were also asked to send in a report of their group's activity, and these are appended to the minutes as noted below. Participants at the meeting were asked to highlight one upcoming event or an issue where CGEN advice would be helpful. Member reports received and circulated prior to the meeting:

- Geological Survey of Canada: Pacific (Appendix 9)
- Mining Matters (Appendix 10)
- Northwest Territories Geoscience Office (Appendix 11)
- Ontario Mining Association (Appendix 12)
- Yukon Geological Survey (Appendix 13)

**AGENDA ITEMS/SUMMARY OF DISCUSSION**

**Review of 2011 CGEN priorities (Charly Bank)**

In his introductory comments, Charly raised the issue of CGEN representation across the country, noting that the majority of our 500 members are in Ontario and British Columbia. He flagged areas of low membership: Prince Edward Island, which has no members, and New Brunswick and Manitoba, which have nine and ten respectively. He noted that major events for the geoscience community/CGEN were

scheduled in Winnipeg in 2013 and in both Fredericton and Saint John in 2014, and that these would provide good opportunities for local recruitment in both provinces.

The discussion of the priorities set by CGEN at its 2011 meeting and the actions taken ensued.

***EdGEO: leadership transition and continued promotion of resources*** (Charly Bank)

Charly described EdGEO as CGEN's flagship program, which provides workshops and classroom resources to Canadian teachers to help them teach earth sciences to their students. Laura's term as EdGEO Chair ends as of June 30, and Charly thanked Laura for her excellent stewardship of EdGEO over the past four years. Beth Halfkenny of Carleton University has graciously agreed to be the incoming Chair. Of special note, Laura will act as a mentor for the first year to Beth. This innovative overlap of Chairs may well provide an excellent model for future transitions of EdGEO management.

***Careers website: preparation of videos and reprint of promotional card*** (Godfrey Nowlan)

The grant of \$20,000 received in March 2011 from the Geological Survey of Canada enabled the production of eight careers videos. These can be viewed on the Careers in Earth Science website:

<http://www.earthsciencescanada.com/careers/video.php>

Funds for the first year of a three-year grant from the Canadian Geological Foundation (for maintenance, redesign and promotion of the website) were used to place advertisements for the website in the fall 2011 and spring 2012 editions of *Canadian Career Counsellor* magazine; for a review and update of the website; and a revision and reprint of the promotional postcard, with 30,000 copies printed. (*Action all – anyone wishing a supply of these postcards, available in French and English, to use as handouts or mail outs, can contact Godfrey at: [Godfrey.Nowlan@NRCan-RNCan.gc.ca](mailto:Godfrey.Nowlan@NRCan-RNCan.gc.ca)*)

***Streamlining CGEN-affiliated websites*** (Godfrey Nowlan)

The goal is to renew and amalgamate the many CGEN-affiliated websites, to provide a “one-stop shopping” entry point to all the excellent earth science resources available. See discussion points and recommendations from breakout session (page 4) on this topic. This will be a priority for the coming year, if the grant application to the Canadian Geological Foundation is successful.

***WHERE Challenge: continued support and assistance in fundraising*** (Laura Clinton via email)

Laura reported that the fourth annual WHERE Challenge, which is managed by Mining Matters, had 163 entries representing the collective input of 776 students. More than \$7,000 was awarded in six national, 19 regional and three school prizes. She noted, “Mining Matters would like to extend recognition and thanks to the 28 judges from across Canada who volunteered this year to support the WHERE Challenge. Their involvement was greatly appreciated and absolutely vital to the success of this important initiative.”

She also reported that while they were unable to secure a corporate sponsor for the WHERE Challenge this year, they remain optimistic and will continue to approach prospects for support in 2012-2013.

***Regional chapters*** (Eileen Van der Flier-Keller)

Eileen reported that CGEN members continue to be very active around the country in many different ways, noting that when several CGEN members get together this is, in essence, a CGEN regional chapter. The challenge to CGEN is to encourage these groups to self identify as CGEN regional chapters, and act more formally as a conduit for CGEN information exchange both to their members and back to the national level.

She stressed that meetings of regional groups, should not be viewed as just meeting for the sake of meeting, rather they offer opportunities to value-add onto whatever individual members are engaged in –

through networking, sharing ideas, communicating about resources and initiatives, and supporting and energizing each other. In addition, regional chapters can play a key role in keeping up with some of the bigger issues such as provincial or territorial curriculum updates and changes.

In 2011-2012, many groups of CGEN members got together informally and three regional chapters held formal meetings: 17 CGEN Saskatchewan members met in Saskatoon, November 30, 2011; 13 Atlantic Geoscience Society members met December 20, 2011; and 15 CGEN Pacific members met following Roundup in Vancouver, January 27, 2012.

Joan Pearce reported that she forwards CGEN information emails to her network of teachers in New Brunswick. Christy Vodden noted that CGEN would provide up to \$250 to support regional chapter meetings. (*Action all – please encourage CGEN chapters in your region by disseminating CGEN information or calling a meeting for information exchange. For advice, contact Eileen at [fkeller@uvic.ca](mailto:fkeller@uvic.ca)*)

### **Upcoming joint annual meetings of Geological and Mineralogical associations (GAC/MAC)**

**Winnipeg 2013** (Jeff Young via email, with Nancy Chow, 2013 GAC/MAC organizing committee chair) Jeff, who is chair of the Winnipeg 2013 outreach/education committee, reported that three events are proposed, targeting educators and the general public:

1. A one-day teachers' workshop and one-day field trip in southern Manitoba, focussing on the Manitoba grade four and seven science curriculum
2. A special session focusing on First Nations Geoscience and bringing together First Nations elders, members of the geological community and other interested professionals.
3. A public lecture highlighting the importance of natural resources, environmental responsibility and the value of geoscience to society.

Other potential events being explored include a display of minerals and gems from the University of Manitoba's R.B. Ferguson Mineral Museum, twinning opportunities with the Manitoba Provincial Mining Week, which will be hosting their annual activities at "the Forks" during Winnipeg 2013 (May 22-24), and a gem and mineral show in conjunction with the Mineral Society of Manitoba. The First Circular for Winnipeg 2013 is at: <http://gacmacwinnipeg2013.wordpress.com/> (See full report for outreach/education program, Appendix 8).

Charly noted that CGEN and EdGEO have committed to help with the teachers' workshop. All expressed strong support for the First Nations special session, considering it to be a most timely and welcome innovation. Many CGEN members and groups have strong connections and past experience working with the Aboriginal community, and would be happy to share their expertise with the special session organizers.

### **Fredericton 2014** (Charly Bank, Randy Miller, Joan Pearce)

Dave Lentz, a longstanding CGEN member and a strong supporter of education/outreach activities, is chair of the 2014 GAC/MAC conference to be held in Fredericton, May 21-23, 2014, and he has indicated that this will be a strong component of the conference. As well, Randy and Joan are organizing an international geopark meeting in Saint John in September 2014, with plans to hold an associated EdGEO workshop focusing on the Stonehammer Geopark.

### **Report of the Secretary-Treasurer (Christy Vodden)**

CGEN has been successful in fundraising for its priority projects in recent years, and some very generous grants have been received from various funding bodies. Christy reported, however, that one difficulty for CGEN has arisen from the Canadian Geological Foundation's (CGF) requirement that grant recipients provide invoices for their total grant amount prior to reimbursement. Over the past few years, CGEN has provided bridge funding to the geoheritage group and to the careers website for their CGF grants, with the result that over \$11,000 of CGEN's funds have been tied up (although these are now in for reimbursement and the cheques are expected from CGF in the next month or so). As the careers website has two more years of CGF grants, Christy indicated that for each of those years bridging funds of \$6,620 will have to be held back in the CGEN bank account to cover invoices for these grants until reimbursement can be sought. This means that any expenditures of CGEN funds from its not overly large bank account will have to be made with a view to how many CGF grants CGEN will be providing bridging monies for in the coming year. (Appendix 3 includes financial statement for 2011-2012)

### **Breakout sessions**

#### ***Amalgamation of CGEN websites*** (led by Godfrey Nowlan)

The discussion focused on key parameters and goals for amalgamating CGEN websites to create a new outreach and education portal for earth science that would include resources currently found in diverse locations, including: International Year of Planet Earth projects <http://www.earthsciencescanada.com/>; EdGEO [http://www.edgeo.org/en\\_CA/](http://www.edgeo.org/en_CA/); CGEN [http://www.geoscience.ca/cgen/index\\_en.html](http://www.geoscience.ca/cgen/index_en.html) and CGEN core projects <http://www.geoscience.ca/cgen/principal.html/>; and a teacher-driven resources site in development by Miriam Vos-Guenther.

There was agreement that the "earthsciencescanada.com" site was an excellent starting point for the portal. Key parameters of user friendliness and a cohesive look will require some redesign. The CGEN website will need to be refreshed with a new logo and an updated look. A member's only section was suggested for the membership list, and, possibly, a section where members and the CGEN Executive can post news, opportunities and events – although it would be important for this to have an email alert capability so members would know when to check the site. The public pages of the CGEN website will require a revised description, emphasizing the role and reach of CGEN, and allow people to join from there.

The EdGEO site was also discussed, with the recommendation that it would not require any design revision, seeing as this has been done recently and the site is very user-friendly. The one area where some thought should be given is to EdGEO's two resource manuals, with the recommendation that they be converted into individual activities to make them more accessible to users.

This amalgamation would be a major project, requiring funding (a grant application has been submitted to the Canadian Geological Foundation), input from the current website managers, and feedback from both CGEN members and users of outreach and education materials housed on the new site.

#### ***Aboriginal traditional knowledge and outreach*** (led by Charly Bank)

The discussion focused on approaches to connecting with Aboriginal groups in a way that would encourage a productive two-way flow of information and knowledge. All agreed that the best ways to ensure buy-in and engagement would come from the Aboriginal communities themselves, so CGEN's role would be to help broker and foster these connections.

Some members and CGEN groups already have strong connections and partnerships with Aboriginal leaders and communities, and a survey of CGEN members would be a good first step to identify these

connections and activities that are underway. Activities that have worked well in the past include: walking the land and sharing stories, and tie-ins to activities organized by a community (e.g. adding a rock and fossil clinic to a pow wow or an information booth at a careers fair).

Based on experiences, to date, the discussion group recommended an action plan of:

- Identifying appropriate liaisons at the local level within the Aboriginal community
- Being prepared to make a long-term commitment to building trust and credibility at the local level.
- Following up on all promises, and not making promises that cannot be delivered.
- Being ready to listen and to be responsive.
- Developing programming and activities in conjunction with the Aboriginal community.

### ***Informal learning*** (led by Eileen Van der Flier-Keller)

Informal learning is part of the fabric of every life, in that it can be most simply defined as “learning beyond the classroom,” where no professional/educational credits are granted. Rather the goals of this individual- and curiosity-driven learning are usually focused on enrichment and fun.

The discussion group looked at the programs, resources and experiences provided by CGEN members/groups and concluded that most of them can be categorized as informal learning. Examples include interpretative materials and activities (geo-signage, geo-walks), gem and mineral clubs, museums, elder learning, the WHERE Challenge, etc. Activities such as teachers’ workshops and educational resources provided by EdGEO and many of our member groups were considered to be more in the formal learning camp, as professional requirements or accreditation were often linked to these activities.

The Internet and social media are providing new opportunities for informal learning, with particularly potent benefits for rural and remote communities. One excellent recent example noted was the virtual museum of the Burgess Shale (<http://www.burgess-shale.rom.on.ca/>), which allows people from anywhere in the world to visit a site that would otherwise be difficult for them to physically access.

A thoughtful discussion of informal learning can be found at: <http://www.infed.org/biblio/inf-lrn.htm>

### **CGEN members’ reports: highlights of activities and/or issues arising**

#### ***ACTUA*** (Luc Lafrenière)

Luc, a new member, noted that CGEN’s objectives and goals seemed very much in line with ACTUA, another national group that “provides life-changing experiences in science, technology, engineering and mathematics.” He suggested that CGEN connect with ACTUA. Of particular interest to CGEN, would be their national networks and strong connection with the Aboriginal community. <http://www.actua.ca/>. Beth suggested that ACTUA might be interested in having an EdGEO workshop for its student instructors or earth science activities for use at its summer camps. (*Action Beth and Luc – explore connections and possibilities with ACTUA*)

#### ***Alberta Geological Survey*** (Mark Fenton)

Mark reported that they are planning to put on an EdGEO workshop, with support (time and money) from their parent body, the Alberta Research Council.

#### ***Carleton University earth sciences outreach*** (Beth Halfkenny)

This group has had a very busy year, what with managing the 2011 EdGEO teachers’ workshop last May and Geoheritage Day in October, amongst other programs and activities. As resources (time and money) are stretched to the limit, Beth plans to work with her manager to determine what the priority activities of

the program should be and refocus the outreach program accordingly.

***Geological Association of Canada Cordilleran Section*** (Erica Williams)

Erica, a BC high school teacher, is a Councillor on the Executive of the GAC Cordilleran Section. She suggested that other professional earth science groups with an interest in education and outreach programming should follow this example of engaging teachers directly in the discussion at the executive level.

***Geological Survey of Canada (Pacific)/ Pacific CGEN chapter*** (Jane Wynne)

The second Great British Columbia ShakeOut earthquake preparedness drill held on October 20, 2011, was a solid success, with 10% of the BC population participating. In 2013 BC, Washington, Oregon and California will do the drill on October 18. (See <http://www.shakeoutbc.ca> for more information and Appendix 9 for full report of activities.)

***Geoscience Publishing*** (Brian Hitchon/Merna Summers)

This publishing company, located in Edmonton, is planning a series of books, “Geology for Earthlings” that will popularize geology using stories of dramatic geological events and their impact. Merna is writing the first volume using the Martinique volcano as its focus. Merna says her goal is to tell “a gripping tale to engage high school students and to deliver the science by treating it as a mystery.” Brian, the publisher, asked for CGEN’s help in promoting the series to schools, with Lesley Hymers suggesting he should use a company such as Lesley Classic’s Database Directories that specialize in providing teacher/school contact lists (<http://www.databasedirectory.com/contact.html>).

***International Year of Planet Earth Legacy Projects/Geoparks*** (Godfrey Nowlan)

The 2012 Earth Sciences for Society, part of the Canadian Society of Petroleum Geologists (CSPG) annual convention, May 13-15, 2012, was a success with over 2,000 Calgary students attending. This major event requires an enormous volunteer effort, and Godfrey noted that this group is barely represented in CGEN. He also reported that the book “Four Billion Years and Counting” would be published in early 2013 and that over 500 figures used to illustrate it would be uploaded to the website for free public use: <http://www.earthsciencescanada.com/4by/>. (See Appendices 4 and 5 for full reports)

***Kamloops Exploration Group outreach*** (Ed Frey)

This group has just hired a full-time outreach programmer to promote geology to the local community through public lectures, school activities, public events, Mining Week and child-oriented weekend prospector courses. They have just worked with Bob Turner to produce a GeoTour guide for Kamloops, downloadable at: <http://www.keg.bc.ca/>.

***New Brunswick Museum*** (Randy Miller)

The museum is developing a virtual exhibit that will present New Brunswick geology, and it will be online by the end of the year. <http://www.nbm-mnb.ca/>. As part of his connection with the Stonehammer Geopark, Randy noted that he is helping train kayak company staff so they can interpret the geology to be seen on their guided tours.

***Northwest Territories Geoscience Office*** (Diane Baldwin)

This group took part in the Canadian Institute of Mining and Metallurgy’s 2012 public/student event “Mining in Society” in Edmonton, May 3-5. Diane noted that it was an excellent event with over 3,000 students and 500 members of the public attending. Next year’s will be held in Toronto. She also reported that her group is helping put together a new six-week college-level “Geological Assistant Program” open to high school students in Yellowknife and other parts of NWT. (See Appendix 11 for full report)



***Ontario Mining Association*** (Lesley Hymers)

The OMA's Education and Outreach Program is going through a structural change, and Lesley is compiling an inventory of what outreach and education activities other groups are doing. The scope will be mainly Ontario, but will include some national activities. The inventory should be completed by December. (See Appendix 12 for full report)

***Saskatchewan Geological Society/Saskatchewan CGEN chapter*** (Fran Haidl)

Good news! Earth science is going to be incorporated into the new Grade 12 curriculum in Saskatchewan, and Fran reported that this group would be contributing ideas for the curriculum and reviewing the draft version. They are also looking into the possibility of having earth science being accepted as a university entrance credit.

***Stonehammer Geopark outreach/education*** (Joan Pearce)

The Stonehammer board has hired a public programmer on contract to focus on community outreach, with good results. Joan also reported that she is finetuning a curriculum guide for the geopark, with the goal of posting it online, and that they will host an EdGEO workshop in August 2013. Visit the "learn" section of the website for resources and news from Stonehammer <http://stonehammer.nbmmnb.ca/main.html>.

***University of Toronto outreach*** (Charly Bank)

Charly is looking into developing a two-day workshop for teachers, tentatively planned for late August. He has also heard from Toronto teachers that they would welcome a credit course for teaching earth science, and he is looking into parameters and logistics.

***University of Victoria outreach*** (Eileen Van der Flier-Keller)

Some very encouraging results came out of a survey of teachers in training who had done an educational lab at the university. It showed that even seven years later, the teachers were using the earth sciences knowledge and materials from the workshop. (See Appendix 2 for more news).

***Yukon Geological Survey/CGEN Yukon chapter*** (Sarah Laxton)

Sarah reported that they have had good success and feedback on their teachers' workshop, most recently offered in the fall of 2011. She noted that it has been easy getting local teachers to sign up for the workshops, but she would like to offer a travelling workshop to reach teachers working outside of Whitehorse. (See Appendix 13 for full report)

**Timing for next meeting**

CGEN's 2013 annual meeting will be held during the Winnipeg 2013 conference, with the time and place to be determined once the schedule of outreach and education program is set. (*Action Jeff Young and CGEN Executive to discuss*)

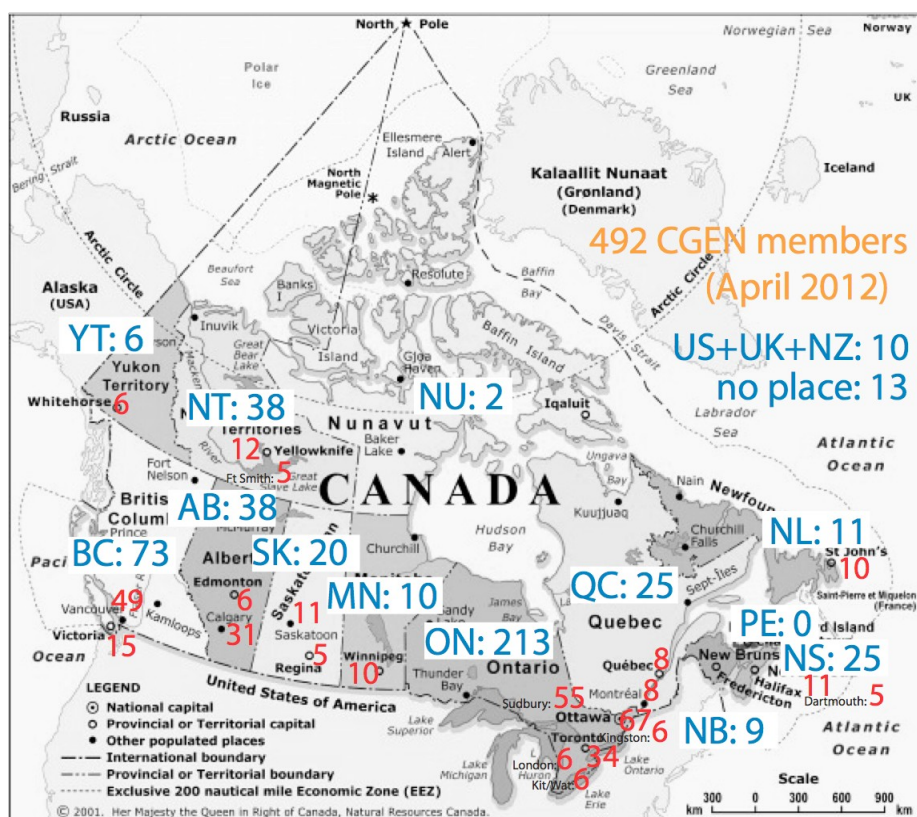
Christy Vodden  
Secretary-Treasurer  
August 15, 2012

## President's report (Charly Bank)

CGEN continues to grow. We now have nearly 500 members on our email distribution list. Many of us are very active in Earth science outreach, and can be proud of our achievements. The few of us who do outreach as a job typically have to fundraise themselves, and most of us continue to care for outreach despite budget cuts with great success as can be gleaned from separate reports. Here is a brief update on the priorities we identified at the 2011 AGM:

### 1. Regional chapters

The map below shows our current membership by provinces/territories and cities. It seems that our membership is reasonably well distributed among major political and mining centres and across the nation with Ottawa, Sudbury, the Vancouver area, Calgary and Toronto having over 30 members. Nunavut, PEI, and New Brunswick continue to have low membership, while some places (Sudbury?) seem ripe for a regional chapter. My understanding is that many recent members were recruited at EdGEO workshops, and we need to ensure that we continue to serve this part of the membership.



*Map of Canada with total members in each province (blue numbers) and cities with five or more members (red numbers) extracted from the current membership list.*

### 2. EdGEO

I am glad to report that EdGEO is coming under a joint directorship: Beth Halfkenny (Carleton University, Ottawa) is coming in as new director, and Laura Clinton (currently with PDAC Mining Matters, Toronto) has agreed to continue for another year. Given the effort needed to administer and ensure funding for our flagship program the joint directorship seems like a more viable option. Our workshops although (from April 2011 to March 2012) at seven slightly less than in previous years have had an amazing reach: Ottawa, ON (GAC-MAC 2011), Matawa, ON, Saint John, NB, Quebec City, QC,



Whitehorse, YK, Victoria, BC, Calgary, AB. At the time of the AGM the workshop prepared by Amanda McCallum at GAC-MAC 2012 will be past.

### 3. WHERE challenge

This IYPE legacy project is run by PDAC Mining Matters. A huge “thank you!” to Laura Clinton and her staff who did fundraising and organization for this, including rallying judges (I received a heartfelt card with yummy treats...). The 2012 competition saw more entries than in recent years, and all regional and national winners can be found on the Mining Matters website. I urge you to go there for some amazing work by 9-14 year olds.

### 4. CGEN website

Our website is dated in dire need of graphical and content update. Godfrey Nowlan submitted a proposal to the Canadian Geoscience Foundation to redesign and update our website and better integrate with other parts. We will not know if funding will be forthcoming until after the AGM. A prototype site with teacher resources (compiled by Miriam Vos-Guenter) would become an integral part of this revamped site.

### 5. Careers website

This website is available at the CFES website ([geoscience.ca](http://geoscience.ca)). It provides interesting viewpoints by young people employed in various sectors of Earth science.

As an outlook for next year I can report that Jeff Young (University of Manitoba) is preparing an EdGEO workshop for GAC-MAC 2013 in Winnipeg and expecting to include teachers from rural or isolated communities. Together with Linda Murphy (First Nations geologist working with the Manitoba Geological Survey) he is also planning a special session on “First Nations Geoscience”.

In closing, I would like to thank all CGEN members for their continued enthusiasm.

Sincerely,

Charly Bank  
Toronto, 21 May 2012

**Vice President's report (Eileen Van der Flier-Keller)****1. CGEN Regional groups: Update**

CGEN members continue to be active around the country in many different ways. When several CGEN members get together this is in essence a CGEN Regional Chapter. Meetings of regional groups offer opportunities to value-add to whatever individual members are engaged in, through networking, sharing ideas, communicating about resources and initiatives, and supporting and energizing each other. In addition, the Regional Chapters can be a venue for keeping up with some of the bigger issues such as provincial or territorial curriculum updates and changes.

Many groups of CGEN members get together informally and in 2011-12, three Regional groups had meetings as follows:

17 CGEN Saskatchewan members met in Saskatoon on Nov 30<sup>th</sup> 2011

13 Atlantic Geoscience Society members met December 20<sup>th</sup> 2011

15 CGEN Pacific members met following Roundup on January 27<sup>th</sup> 2012

**2. CGEN booth at the American Association for the Advancement of Science Annual Meeting “Family Science Days” event, February 18-19, 2012, Vancouver Convention Centre**

AAAS Family Science Days is a free community science showcase offering an array of hands-on demonstrations and other family and child-friendly activities during the AAAS Annual Meeting. The Vancouver event had a public attendance of 6,424.

The CGEN booth was bustling with children and families engaged in pebble matching/ rock identification, a geological time line and fossil activity, and a non-renewable resources matching activity. BC Year of Science funds paid for travel expenses of three UVic undergraduate students Rob Cook, Liana Stammers, and Rebecca Stanton who together with Connor Keller, a graduate student from UBC, devoted a precious weekend to Earth science outreach.

**Secretary-Treasurer's report (Christy Vodden)**

As of April 30, 2012, the CGEN bank balance was \$6,287.67 (\$5,637.67 for general CGEN activities and \$650 held for the geoheritage project – these are speaker's fees donated by members of the Ottawa-Gatineau Geoheritage Project to be used in support of their activities).

During the past year, CGEN covered expenditures for two Canadian Geological Foundation (CGF) grants, as reimbursement from CGF is possible only once all the grant monies have been expended and invoices submitted to the CGF for the total amount. CGEN has requested reimbursement for the two grants (one for the Careers in Earth Science website; the other for the Ottawa-Gatineau Geoheritage Project) for a total of \$11,270. These funds should be received shortly.

CGEN received two generous contributions in 2011-2012: \$3,500 from our parent body, the Canadian Federation of Earth Sciences, and \$1,000 from the Canada Prize Foundation.

Outgoing funds were for the Ottawa teachers workshop, catering for the annual meeting in Ottawa and regional CGEN meetings in Saskatoon and Vancouver, and for updating the membership e-list and website. The \$20,000 grant received late last year from the Geological Survey of Canada was spent on the production of eight careers videos, with the balance of \$117.77 transferred to the CGEN general account. CGEN also covered expenses linked to the two CGF grants noted above.

Membership continues to grow and we are now at 490. This represents a modest increase from our tally of 476 at this time last year, but the membership is now quite volatile. Over the past year, 39 new members were added, but 25 deleted at their request or because their e-mail address was no longer viable.

**Canadian Geoscience Education Network  
2011-2012 FINANCIAL REPORT**

Balance at last report (as of April 30, 2011)	\$30,735.47
---	-------------

Incoming funds:

CFES contribution in support of CGEN activities, Dec. 2011	\$3,500.00
Canada Prize in support of CGEN activities, February 2012	\$1,000.00
*Transfer, remainder of GSC grant to CGEN general account	\$117.77
Interest (May/11 – April/12)	\$0
Total incoming:	+\$4,617.77
Sub-total:	+\$35,353.24

Outgoing payments:

1. CGEN core activities/administration

Earth Sciences, Carleton Univ. for 2011 teachers' workshop	\$500.00
Bogdon, replacement cheque for 2010 workshop support	\$50.00
Vodden, office, catering & administration charges	\$478.43
Smith, website update, Oct. 2011	\$100.00
Haidl, Sask. regional meeting	\$186.26
Smith, website update, March 2012	\$100.00
Wynne, BC regional meeting	\$167.64
Service charge, TD	\$1.00
Sub-total:	-\$1,583.33

2. Careers videos (from GSC grant of \$20,000 received 2010-2011)

Career Crate, video production deposit	\$9,345.00
Career Crate, completion of videos	\$9,529.23
Sabeau, coordination, editing, implementation	\$1,008.00
* Remainder transferred to CGEN general accounts	\$117.77
Sub-total:	-\$20,000.00

3. Payments reimbursed by Canadian Geological Foundation

(a) Careers website: redesign & promotion: grant = \$6,750

Market Zone, advertisement, Cdn. Counsellor, fall 2011 issue	\$866.25
Fleiva, website design & updates	\$448.88
Sabeau, website maintenance	\$670.00
Market Zone, advertisement, Cdn. Counsellor, spring 2011 issue	\$932.25
Fleiva, redesign/printing 30,000 postcards	\$2,766.75
Sub-total:	-\$5,684.13

(b) Geoheritage: website & promotion: grant = \$4,520

Aylsworth, website registration and annual fee 2011-2012	\$174.81
Tunley, website design	\$813.60
Aylsworth, website annual fee 2012-2013	\$30.00
Elm Printing, publicity bookmark for new website	\$779.70
Sub-total:	-\$1,798.11

Total outgoing: **-\$28,947.80**

**BALANCE as of April 30, 2012** **= \$6,287.67**

(Note: balance includes \$650 held in CGEN account for geoheritage project)  
Reimbursement requested from Cdn. Geological Foundation (\$11,270)

---

Christy Vodden  
Secretary-Treasurer  
May 17, 2012

## IYPE Legacy Report

### Careers Web Site

The Careers site was fully updated in 2011 and eight new videos were added to the site. Check out the new videos at <http://careercrate.com/group/cgen/videos/24>.

Another site update is planned for 2012 thanks to the second year of a three-year grant from the Canadian Geological Foundation. The review will be completed by Jenn Sabean who was the original principal writer of the content.

An advertisement for the site appeared in the Spring edition of Canadian Career Counsellor magazine. The advertising card for the site has been slightly revised and 30,000 have been printed: any society that would like to have some to promote the Careers site should contact Godfrey Nowlan ([gnowlan@NRCan.gc.ca](mailto:gnowlan@NRCan.gc.ca))

### GeoVistas

This project is designed to produce brochures on specific views in National Parks that combine basic information on geological and geomorphological features seen in the view with information on how they have influenced the natural environment and culture. This project was stalled during 2011 because of my temporary (7 month) assignment to a management position with GSC.

The project is now back on track with final adjustments completed to the eight Jasper brochures and one Grasslands brochure. The text has been extracted and is currently being translated. Once they are translated, the text will be laid out in the French versions and we will proceed to printing of the brochures (5000 of each for Jasper and 2000 of each for Grasslands, with smaller amounts for the French versions).

The brochures will be available for download from [www.EarthSciencesCanada.com](http://www.EarthSciencesCanada.com) and will be added to an iphone app being prepared by the Friends of Jasper National Park. Funding for this phase of the project has been committed by the Canadian Geological Foundation.

### Four Billion Years and Counting: Canada's Geological Heritage

The book entitled Four Billion Years and Counting (FBY) is a major product related to the International Year of Planet Earth. The project, represented by more than a hundred volunteers led by the team of volunteer editors (with Rob Fensome at the helm) continues to progress. A draft of the text and graphics (reduced by 30-40% from the initial version in order to meet the 400 page limit for the book) was submitted in late 2011. Initial feedback from the Nimbus Press editor was positive, but so far there has been limited detailed feedback. We continue to prompt as much as we can.

While we await the co-publisher's detailed feedback, excellent progress has been made on several other important aspects of the book. Checking of graphics credits and permissions is progressing well though there are still a few issues to sort out; this is important, detail-oriented work and time-consuming. We will need formal agreements with some sources for which CFES will need to sign as co-publisher. One of the key volunteer editors on this part of the process is away for several weeks, but we will contact CFES in due course about the needed agreement ("conditions of use") documents.

High quality photographic imagery is one of the key aspects of the book and over the years a large library



of photos has been accumulated. In recent months, we have been working with this collection, trying to pare it down and distribute images to the appropriate sections in the book. Many of the images came without full contextual information, and this is one reason why matching images to the appropriate place in the narrative is a challenge. The process has also revealed a few gaps in the collection, which we are endeavoring to fill. With the help of numerous contributors we are working through this process and hope to make a final selection in the next 2-3 months, ready for the design stage. An additional challenge with respect to the photographs is chasing down hi-resolution versions (if available) of photos that were originally submitted at low resolution. Parks Canada is the source of many excellent images that will be of great benefit to FBY. We have been in discussions with Parks Canada with regard to use of the images without charge and, although we will have to go through an agreement process with them, it looks like we will be successful on that score.

With regard to the French edition, co-editor Aicha Achab has been re-checking the commitment of the “embedded” francophone co-authors and most are still aboard. However, we will have to get some text translated and we hope to determine how much and its potential cost soon. Thomas Clark has joined Aicha as an ad hoc French edition committee. Thomas has checked with the projected French publishers (Multimonde) who remain keen and will plan an initial print run of 1,200 books; included in the agreement with them would be a commitment from CFES to buy a certain number of books (I think 200).

Jennifer Bates, Graham Williams and Rob Fensome met informally with the English co-publisher, Nimbus, in early March. Nimbus continue to be committed to the project and re-confirmed that they need us to keep the book down to 400 pages, albeit large format. They indicated that their initial print run would probably be 5,000 copies. When we start to write up the formal contract with Nimbus we will need direct CFES involvement.

Existing funds to support the book and its on-line representation of images and diagrams includes \$60,000 from Nexen Inc. and \$95,000 from individual donors in support of the 19 chapters. The progress of the book has been supported up to this point by grants from the Canadian Geological Foundation and support from Natural Resources Canada.

Godfrey Nowlan  
11 April 2012

## Report on Geoparks

### General

A meeting of the Canadian National Committee for Geoparks was held on 18 January 2012. John Calder, who is working on geoheritage legislation in Nova Scotia was added to the committee at that meeting. The committee currently comprises the following individuals: Godfrey Nowlan (Chair), Andrée Blais Stevens (CFES, International), Jenna Boon (Joggins), John Calder (Nova Scotia Government), Michael Campbell (University of Manitoba), Jeff Hunston (Yukon Government), Elisabeth Kosters (ex officio, CFES), Bill Mercer (CFES), Randy Miller (New Brunswick Museum), Dominique Richard (Quebec Government) and Pierre Verpaerst (retired).

The next meeting is planned for late April 2012.

### Stonehammer Global Geopark Wins Major Tourism Award and Bids to Host International Conference

Stonehammer, North America's first Global Geopark, continues to develop and thrive. It had the singular distinction of winning the Deloitte Innovator of the Year Award provided by the Tourism Association of Canada. This has drawn attention to geoparks in Canada and interest continues to grow.

Since geoparks are re-assessed every four years, Stonehammer is starting to prepare for their review in 2014. As part of this effort, Stonehammer has put in a proposal to host the 6<sup>th</sup> UNESCO International Conference on Geoparks. The results of this bid will be declared at the 5<sup>th</sup> UNESCO International Conference on Geoparks being held in Unzen, Japan in May 2012.

### UNESCO News

At the last CFES meeting, I indicated that the United States withdrew funding from UNESCO because it voted to admit Palestine and this has had a significant effect on the UNESCO Earth Science office. There is a 1992 law in the United States that states that the US cannot give funding to UN organizations that recognize Palestine. Since this is an election year, this law will not be changed by the present administration. Hence, there is no US funding to UNESCO right now. The US paid \$70m to UNESCO, which was about a third of the budget. There is hope that the situation will be remedied for 2013, but for now UNESCO loses both the 2011 and 2012 US contributions. At the time this seemed like bad news for the future of geoparks, which was seeking formal UNESCO Program status. Although it has been bad news for UNESCO itself, the same UNESCO General Assembly that admitted Palestine in the late Fall of 2011, also passed a resolution to create a task group to develop a proposal to make Global Geoparks a formal UNESCO program. This task group is currently being assembled.

### Upcoming Meetings

#### *5th International UNESCO Conference on Geoparks*

Shimbara, Japan 12-15 May 2012. Canada will be represented at this conference by Godfrey Nowlan (Chair of the Canadian National Committee for Geoparks) and a delegation from Stonehammer Global Geopark including Bill Merrifield (Chair of the Stonehammer Board), Gail Bremner (Executive Director of Stonehammer Geopark) and Jane Fullerton (CEO of the New Brunswick Museum). Two talks will be presented on Canadian geoparks. A booth is being organized to promote Stonehammer and its bid to host the 6<sup>th</sup> International UNESCO Conference on Geoparks.

### *GAC-MAC 2012 Session*

A session comprising 19 presentations will be held at the Geological Association of Canada – Mineralogical Association of Canada in St. John's in May 2012 entitled Preservation of Geological Heritage and its Contribution to Education and Economic Development. It is being organized by Amanda McCallum, Pierre Verpaelst and Godfrey Nowlan. This session will be complemented by a field to the Bonavista Peninsula which is contemplating a Global Geopark application. See:

<http://www.stjohns2012.ca/>

### **New Applications for Canadian Geoparks**

No new applications have been received but there is still considerable interest in a number of areas including parts of Newfoundland, Nova Scotia, Quebec, Yukon and British Columbia.

Godfrey Nowlan

Chair Canadian National Committee for Geoparks

5 April 2012

**EdGEO Report to CGEN – May 29, 2012**

This report provides an update of EdGEO operations during the last fiscal year (April 1, 2011 to March 31, 2012).

**Workshops**

Eight EdGEO workshops were delivered during the last fiscal year. There were two workshops in each of British Columbia and Ontario, and one in each of Alberta, New Brunswick, Quebec and the Yukon. Total attendance was 188.

<b>Grant Recipient</b>	<b>Attendance</b>	<b>Grant</b>
Carleton University	33	1,695
Canadian Ecology Centre	22	3,000
New Brunswick Museum	20	2,090
Mineral Resources Education Program of British Columbia	25	1,470
Association de l'exploration minière du Québec	6	1,450
Yukon Geological Survey	32	1,940
University of Victoria	21	1,280
Calgary Science Network	29	600
	<b>188</b>	<b>\$ 13,525</b>

**Finances**

Revenue of \$13,804.84 was secured from a \$12,500 grant awarded by the CSPG Educational Trust Fund and workshop refunds.

Expenses amounted \$15,668.28, of which \$14,830.15 is attributed to workshop support. The remainder of the expenses is for supplies, workshop preparation, bank fees, accounting support, Web site, and postage.

We had money in the bank (\$13,417.35) when the fiscal year began. As of March 31, 2012 total assets for EdGEO were \$11,553.91. We have approved commitments of \$6,808.38 2012/2013.

A multi-year grant from the Canadian Geological Foundation (\$48,000 over three years) was awarded to EdGEO in May 2011. Request for payment of year one will occur over the summer months. The CSEG Foundation has pledged \$1,000 in support. The CSPG Educational Trust Fund has changed the parameters for grant recipients – all proposals must have a clear link to petroleum geosciences. This offers great incentive for us to encourage more related content in workshops.

**Leadership**

The EdGEO Executive Committee would like to take this opportunity to welcome Beth Halfkenny as Co-Chair for the 2012-13 fiscal year. We wish to thank Beth for generously committing her time to this important initiative.

**EdGEO Executive Committee**

Laura Clinton  
Sheila-Dale Johnston  
Beth Halfkenny  
Toon Pronk  
Jane Wynne

**EdGEO Regional Committee**

Charly Bank  
Laura Clinton  
Beth Halfkenny  
Stella Heenan  
Lesley Hymers  
Amy Nishio  
Claire Toner

**Contact Information**

Laura Clinton

94 Charest Place, Whitby, Ontario L1M 2B2

Tel: 416-819-4017 Email: [edgeo@edgeo.org](mailto:edgeo@edgeo.org) Web site: [www.edgeo.org](http://www.edgeo.org)



## **Friends of Canadian Geoheritage**

### **Annual Displays:**

During the past year displays at our four annual events continued to attract attention: Pinhey's Point Riverfest (Aug. 14), Ottawa Gem and Mineral Show (Sept. 24, 25), Ottawa Geoheritage Day (Oct. 23) and Ottawa Heritage Day at City Hall (Jan. 21).

### **Additional events, talks, geotours:**

August 17: Provided geological guidance during shore stops for Riverkeeper's Great River canoe trip along the Ottawa River between Westmeath and Davidson, Quebec. Eighteen high-school students participated. ([grp.ottawariverkeeper.ca/about-the-project/events/](http://grp.ottawariverkeeper.ca/about-the-project/events/)).

Aug. 27, 28: Contributed to restoration/organization of the James Wilson collection in the Perth Museum. Completed brochure for the Geoheritage Rock Display beside the Crystal Palace

September 12: Guided an excursion to Metcalfe Geoheritage Park in Almonte for 12 members of the Canadian Paraplegic Association of Ottawa.

Oct. 5 Local Geotour for 14 Retirees, Unitarian House

Nov. 22 Talk: "Overview of Geoheritage Attractions in Eastern Ontario" for members (16) of the Leeds Grenville Stewardship Council

Feb. 28: Talk: "The Lithosphere, Foundation for the Biosphere: celebrating our local geological history and the 10th anniversary of the Frontenac Arch Biosphere Reserve" to a group of 65, Brockville Museum

May 14: Talk to 20 students and faculty, Heritage Masonry Program of Algonquin College, Perth Campus.

### **Ongoing Projects:**

Repair of sewers beneath Metcalfe Geoheritage Park has disrupted much of the outdoor rock display, but plans are underway to relocate the rocks to another part of the park during the summer of 2012. of rocks. A new brochure of the revised display will be prepared.

The Bonnechere Museum in Eganville is planning to expand their rock and fossil display, and also establish a nearby Geotrail. OGGP has been invited to provide assistance, and will do so during the summer of 2012.

A "geosalvage" operation is currently underway to obtain large display blocks of biofilm and evaporite structures from outcrops of Paleozoic sandstone within the median of Highway 417 in Kanata. The blocks will be distributed to universities and museums.

The network of geoheritage workers elsewhere continues to expand. Dave Forsyth (GSC retiree) has prepared a geological tour guide for Morris Island, and Dugald Carmichael (Queen's University retiree) is seeking to have more geology introduced into the Rideau River Trail Guide.

A grant from CGF has allowed:

- the printing of OGGP bookmarks to replace our now-exhausted supply of brochures
- to contribute to signage for Metcalfe Geoheritage Park
- to create an OGGP website that provides suitably updated information previously available in our brochure
- notification of upcoming events (<http://www.ottawagatineaugeoheritage.ca/>)

### **In Memoriam**

Members of the Ottawa-Gatineau Geoheritage Project (OGGP), which was initiated 10 years ago, are saddened by the recent death of Harold Steacy, a founding member and enthusiastic contributor to our program.

Allan Donaldson May 17, 2012

## **Outreach Committee: Status Report**

**GACMAC 2013 – May 7, 2012**

Committee chair: Jeff Young (Geological Sciences, University of Manitoba)

The outreach committee has proposed three events to be held in conjunction with Winnipeg 2013. The events target educators and the general public. Other potential events that team Winnipeg 2013 with outside organizations are in the preliminary discussion stage.

### **Teacher Workshop**

A one-day workshop and one-day field trip has been proposed that focuses on the Manitoba grade four and seven science curriculum. The field trip will complement the workshop by visiting sites of geologic interest in southern Manitoba. The Canadian Geological Education Network has expressed support for the workshop.

The outreach committee will target teacher participation from schools in

1. remote or rural settings, particularly those of Frontier School Division in northern Manitoba and First Nations reserve schools;
2. Keewatin-Patricia School District in northwestern Ontario; and
3. inner city settings.

The outreach committee proposes to invite up to 10 teachers from remote locations to the teacher workshop.

A teacher resource kit will be designed to help teachers in Manitoba and Northwestern Ontario deliver a quality program in Earth science education. A survey for teachers will be available through Survey Monkey. The resource kit will supplement materials available as part of the Mining Matters program for the Grades 4 and 7 Earth science curricula.

### *Advertising*

Advertising for the program will be done through the Manitoba Science Teachers Association of Manitoba, their publication, the Manitoba Science Teacher, at professional development meetings, and direct mailing. Particular attention will be paid to teachers in the Keewatin-Patricia School District in northwestern Ontario. Starting in June 2012 an initial advertising blitz will be done that targets both individual teachers and their administrators.

### *Funding*

Financial support of the teacher workshop will come from registration fees and specific funding sources. A funding application has been submitted to the Canadian Geological Foundation for support of the Teacher Workshop. Additional funding applications will target EdGEO and the Manitoba Department of Education.

### **Special Session: First Nations Geoscience**

A special session focusing on First Nations Geoscience has been proposed by Jeff Young (U. Manitoba) and Linda Murphy (Manitoba Geological Survey) to bring together First Nations elders, members of the geological community and other interested professionals. First Nations elders have been approached and one has confirmed participation. CGEN members have expressed support for the session and contributed numerous ideas for its success. We hope to continue this collaboration.

## **Public Speaker**

The public speaker will highlight the importance of natural resources, environmental responsibility and the value of geoscience to society. The public address will be showcased as a keynote speaker at the GAC-MAC conference. A speaker will be identified in the coming months.

## **Other Potential Events**

A proposal has been submitted to display minerals and gems from the **R.B. Ferguson Mineral Museum** (U. Manitoba). The display would complement the sessions being held in honour of Frank Hawthorne and Petr Cerny. The conference committee has contacted the Royal Ontario Museum to create a joint display of mineral and gems.

**Manitoba Provincial Mining Week** (PMW) will be hosting their annual activities at “the Forks” during Winnipeg 2013. We have met with organizers to discuss ways that both Winnipeg 2013 and PMW can maximize benefit for their constituents.

The **Mineral Society of Manitoba** has expressed interest in teaming with Winnipeg 2013 in hosting a Gem and Mineral Show. The last Gem and Mineral Show hosted by the Mineral Society was held in conjunction with Winnipeg 96. Preliminary discussions have looked at potential venues for the show.

## Geological Survey of Canada (Pacific)/ Pacific CGEN chapter

1. The Pacific Section of CGEN met in Vancouver January 27. Fifteen people participated in an encouraging and stimulating round of “bring and brag”. I am pleased to report that there are a number of young and dynamic individuals ready, able and willing to take on geoscience engagement with the public. The minutes of that meeting are attached.
2. The second ShakeOut BC drill (Drop, Cover, Hold on) was held on October 20th, 2011. Over 12.5 million people participated. The drill will be held on the third Thursday of October each year. In 2013 BC, Washington, Oregon and California will all be doing the drill on October 18th. See <http://www.shakeoutbc.ca> for more information.
3. February 18 and 19, 2012 Natural Resources Canada (NRCan) had a booth at the Family Fun days of the American Association for the Advancement of Science. We were one of about 40 different science agencies and organizations represented. Our booth featured both mountain pine beetle science and a “jump here to make an earthquake” seismometer display. 6,424 people attended the show. As part of the festivities Jane Wynne gave a stage presentation about earthquakes in SW BC “Earthquakes happen here too”.
4. “New Canadian Teaching Resources from NRCan for Earthquakes, Landslides and Tsunamis (lesson plans, maps, and event timelines) (January 2012) - Geological Survey of Canada Open File 7073 (English) and Open File 7074 (French) are now available - go to [ftp://ftp.nrcan.gc.ca/ess/publications/geopub/of\\_7073.zip](ftp://ftp.nrcan.gc.ca/ess/publications/geopub/of_7073.zip) (English) or [ftp://ftp.nrcan.gc.ca/ess/publications/geopub/of\\_7074.zip](ftp://ftp.nrcan.gc.ca/ess/publications/geopub/of_7074.zip) (French) to download these free resources.

Cheers - Jane

P. Jane Wynne  
 Increasing Personal Preparation for GeoHazards  
**Public Safety Geoscience (PSG) /**  
**Géoscience de la sécurité publique (GSP)**  
[Jane.Wynne@NRCan.gc.ca](mailto:Jane.Wynne@NRCan.gc.ca), 250 363 6471  
 facsimile / télécopieur 250 363 8836  
 Geological Survey of Canada / Commission géologique du Canada  
 Natural Resources Canada / Ressources naturelles Canada,  
 Box 6000, 9860 West Saanich Road / chemin West Saanich  
 Sidney B.C. / C.B. V8L 4B2



## **Mining Matters Program Report**

*January to May, 2012*

### Teacher Training and School Programs

14 teacher workshop

Total attendance of 298 teachers with an estimated reach of 7450 students

Workshops were held in Ontario, Manitoba, Nunavut and Quebec

2 student workshops

Total attendance of 181 students

Workshops were held in Toronto during the PDAC Convention

WHERE Challenge

The fourth annual WHERE Challenge had 163 entries that represented the collective input of 776 students. We awarded more than \$7-thousand in six national, 19 regional and three school prizes. Mining Matters would like to extend recognition and thanks to the 28 judges from across Canada who volunteered this year to support the Challenge.

### Public Outreach

Mining Matters will interact with over 10,000 students, teachers and members of the public during the following outreach events:

North Bay Mining Week, North Bay

Timmins Mining Week, Timmins

Sudbury Mining Week, Sudbury

Mining for Society Show, Edmonton

Earth Sciences for Society Show, Calgary

Mining Rocks, Winnipeg

Carassauga Festival of Cultures, Mississauga

Festival Eureka, Montreal

### Aboriginal Education and Outreach

Student workshop series in Labrador in partnership with the Newfoundland and Labrador Geological Survey reached communities of Nain, Postville, Hopedale, Makkovik and Rigolet.

Student workshop series in Attawapiskat reached nearly 350 students in primary, junior, intermediate and senior grade levels

Student workshops in Rankin Inlet, Nunavut for 36 students representing the seven communities of the Kivalliq region. We will also commence a curriculum project in Nunavut.

15 *Mining Rocks!* Earth Science Camps for Aboriginal communities are scheduled for this summer in Ontario, Manitoba, Saskatchewan and the Northwest Territories

12 Mineral resources workshops for Aboriginal communities in Ontario's far north to occur during the remainder of the year

## **Northwest Territories Geoscience Office**

### **Current projects:**

**1. Geoscience Field Assistant Program:** Working in partnership to develop a new college-level program to train field assistants in the Geoscience and Mineral Exploration sectors. Program outline is completed and feedback from industry and government partners is being sought prior to curriculum development. Partners include: Aurora College, NWT Geoscience Office, NWT and Nunavut Chamber of Mines, Government of the Northwest Territories (Education, Culture and Employment, Industry, Tourism and Investment), and industry.

**2. Mining Week Breakfast for Teachers, Guidance Councillors, Principals:** Presentations during Mining Week (June 10-16) to inform about current events, programs, resources, educational opportunities. The 2012 WHERE Challenge will be discussed with recent winners from NWT highlighted. Presentation to teachers about development of Geoscience Field Assistant Program.

**3. Tundra Science Camp, Daring Lake, Northwest Territories.** Environment and Natural Resources, (GNWT) currently promoting program in NWT schools. Date for camp: July 28-Aug. 6, 2012.

Diane Baldwin  
[diane\\_baldwin@gov.nt.ca](mailto:diane_baldwin@gov.nt.ca)



## **Ontario Mining Association Education and Outreach Committee Activities Report**

### **Canadian Geoscience Education and Outreach Meeting**

### **May 2012-St John's Newfoundland and Labrador**

#### **Programs**

##### **Teachers' Mining Tour (August 15-19, 2011)**

- The Canadian Ecology Centre, Ontario Mining Association, Canadian Institute of Mining (Northern Gateway Branch and Sudbury Branches, the Metal Mining Society, EdGEO and PDAC Mining Matters collaborated to deliver the second annual teacher professional development program at the Canadian Ecology Centre
- three full and two half days of programming that included mine site visits, resources workshops and opportunities to engage with industry professionals.
- Program exposed teachers to all phases of the mining cycle, mining industry professionals, Earth science and mineral education professionals, Earth science and mineral industry themed presentations, educational resource workshops and field trips.
- Program included classroom teaching resource workshops, presentations by industry professionals, underground and surface site visits of Xstrata Nickel's Nickel Rim South Mine, a presentation and tour of the Vale Smelter Complex in Copper Cliff, a Ministry of Northern Development and Mines Geologic Tour of the Sudbury Region, a Sudbury Reclamation Tour with Dr. Peter Beckett of Laurentian University, a site visit to a diamond drill manufacturing facility, a site visit to a sand and gravel pit, accompanied by a prospecting activity and planning exercise, a policy discussion, and presentation about environmental assessment and aboriginal consultation in resource development.
- 27 teachers participated in the program
- Program was again well received by teachers and sponsors and received favourable post tour evaluations
- The OMA, Canadian Ecology Centre and PDAC Mining Matters developed and distributed additional follow up surveys: one to 2011 participants and a "year 2" survey to 2010 participants in an effort to gauge how the tour was continuing to inform their teaching. The data that was collected will inform future Tour programs
- The 2012 Tour program is currently under development and will include:
  - Site visits, resource workshops and presentations
  - More elements that will serve to contextualize the geological underpinnings for mining operations (geological tour of the Sudbury Basin) and address misconceptions and legacy issues
- Significant structural changes to the program are being considered. They include the addition of a second tour; that is to deliver two tours per year. Initial scoping of this idea was completed in 2011 as was an informal needs assessment. It was determined that there is sufficient interest to warrant the addition of a second tour. The delivering model is still being considered and discussions continue.

#### **Let's Talk Science**

- This is a burgeoning partnership that has been under consideration since 2010
- Although slow, partnership discussions continue with Sara Steers, Director External Relations

- Continuing to discuss opportunities to links organizations, web sites, and to participate in the All Science Challenge and contribute content and links to the CurioCity website.
  - LTS and the OMA are continuing discussions around the drafting a formal partnership proposal
- LTS has committed to participate in an upcoming Education and Outreach Committee Meeting, to present their partnership proposal. Following this presentation a recommendation will be made by the Committee, to the Board of Directors about whether to move forward with the partnership.

#### **Skills Canada Ontario (April 30-May 2, 2012)**

- Worked in partnership with this organization since 2007
- Participated in the 2012 Skills Canada Ontario Competition, RIM Park-Waterloo
  - hosted a career exploration showcase booth
    - displays, hands on activities and mineral industry professionals from metal and industrial mineral mines
  - delivered mineral industry career exploration workshops to students from Ontario.
    - Hands on activities for six mineral industry careers
    - 6 classes from schools located in southern Ontario
- Significant structural changes are being considered for the Education and Outreach program. This partnership will likely be dissolved to allow for the exploration of new or the expansion of existing education and outreach opportunities.

#### **Toronto District School Board Teacher Professional Development Workshop (February 18, 2012).**

- Participated in the annual Toronto District School Board Teacher Professional Development Workshop in the Department of Geology at the University of Toronto (organized by Charly Bank)
- Delivered a mineral industry career presentation and discussed career teaching resources

#### **Special Education Event-PDAC Convention (March 4, 2012)**

- Participated in the PDAC Mining Matters Teachers' Events at the PDAC Convention.
- Showcased mining career activities and lead PDAC MM Deeper and Deeper Grade 4 resource workshop

#### **School Classroom Visits (pending)**

- Planning a visit to a grade 4 class at Agnes Taylor Public School in Brampton
- In conjunction with wrapping up the Rocks and Minerals units so will focus on the uses of rock and minerals and mining.

#### **So You Think You Know Mining Video Contest**

- contest encourages Ontario High School students to create a 2-3 minute video or 30 second commercial that describes the benefits of mining
- 2012 marks the 4<sup>th</sup> annual contest-\$33,500 prize purse available to be won
  - 142 videos recieved-58 more than in 2011 contest
  - 14 awards will be presented to winners- 12 juried prizes, plus People's Choice and Early Bird Awards
  - Winning videos created by students from town and cities all over Ontario, including Ottawa, Val Caron, Toronto, London, North York, Clinton, and Timmins.
  - SYTYKM Awards Gala will be held at the Royal Ontario Museum on Tuesday June 5.
    - At the gala winning submissions will be celebrated and celebrants will receive their awards and cheques
    - Guests will have access to the Tech Suite of Galleries and Mining Hall of Fame exhibit

- Sudbury Mining Week (April 27 to May 5, 2012) organizers included the contest in the 2012 program
  - showcased top regional SYTYKM entries at events and furnished additional prizes and recognition
- The OMA partnered with Cambrian College to develop the curriculum and deliver its inaugural video production workshop
  - On February 24<sup>th</sup>, Cambrian College held a one-day video production workshop, designed to promote and spark creativity for the So You Think You Know Mining Contest
  - Twenty students and their teacher Steven Facchini, from the Special High Skills Major in Information and Communications Technology at Bishop Alexander Carter Catholic Secondary School, participated in the workshop.
  - Students were provided with an opportunity to learn the basics of video production, to use Cambrian's modern facilities and film equipment and to benefit from the experience of college staff.
  - Topics covered in various segments of the course included writing, planning, design and shooting and video editing along with the use of equipment. An examination of video sizes, story board development and camera, lighting and sound tips were provided.
  - The workshop was facilitated by broadcaster Dan Maslakewycz of CTV and Cambrian College.
- Future workshops are planned for the 5<sup>th</sup> season of the contest. They will be delivered in partnership with Cambrian College, Confederation College and Seneca College

## Resources

### Mining New Opportunities

- DVD and Teacher Resource developed in conjunction with PDAC Mining Matters
- Focused toward Aboriginal Engagement in the mineral sector (Ring of Fire development)
- Recent renewed interest in this resource has caused us to consider revising the resource





**CGEN YUKON REGIONAL**

**CHAPTER**

**ANNUAL UPDATE, 2012**

---

Contact: Sarah Laxton  
[Sarah.laxton@gov.yk.ca](mailto:Sarah.laxton@gov.yk.ca)  
Phone: 867-393-71876

*Mining Week, Whitehorse* (May 8-12, 2012)

- Exploration tent camp at Shipyards Park – open to the public
- Hands-on activities for over 90 students
- Women in Mining Career presentations
- Public and school tour of the Whitehorse Copper Belt
- Public talk on the namesake of the Yukon Geological Survey Core Library - HS Bostock, presented by Charlie Roots
- Art & Geology Exhibit - free and open to the public

*Geoscience Workshop for Yukon Teachers, Whitehorse* (Oct. 14, 2011)

- One-day workshop hosted by the Yukon Geological Survey and Mining Matters
- Morning classroom session and afternoon field trip

*Permafrost Outreach Program* (Fall 2011 and Spring 2012)

- Frost tubes located at schools throughout the territory
- Annual visits to meet with classes involved with program
- Collaboration with Dr. Yoshikawa, University of Alaska Fairbanks

*Public Talks*

- Various Earth Science topics at Beringia Centre and Yukon Wildlife Preserve

*School activities*

- Copper Belt tours
- High school Surficial Geology field trip
- Classroom presentations
- Career Fair

*Arctic Winter Games Mining & Resource Youth Expo, Whitehorse* (March 9-10, 2012)

- Outreach booth