

**Canadian Geoscience Education Network Annual Meeting**  
**9:30 a.m. – 4:00 p.m., May 19, 2005**  
**Dalhousie University**  
**Halifax, Nova Scotia**

*Present:* Jennifer Bates, Ron Clowes, Al Donaldson, Howard Donohoe, Dixon Edwards, Rob Fensome, Greg Finn, Martha Grantham, Fran Haidl, Linda Ham, Stella Heenan, Godfrey Nowlan, Claudette Pellikan, Donna Schreiner, Ann Therriault, Pierrette Tremblay, Eileen van der Flier-Keller, Christy Vodden, Erica Williams. Because of a family commitment, Alan Morgan, with regrets, was unable to attend the meeting, which was chaired by Jennifer Bates.

**Approval of minutes from 2004 AGM:** Approved with no changes

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

The financial report for 2004-2005 is attached as Appendix 1. Of particular note, CGEN received generous support from various sources, including: \$10,000 from GeoSciEd IV for EdGEO; \$1,500 from the Geological Survey of Canada (GSC) for Friends of Canadian Geoheritage; \$5,000 from the Canadian Geoscience Council to support CGEN activities; \$30,000 from the Youth S&T Program of the Ontario Ministry of Economic Development and Trade for Geoscape Ontario; and \$2,500 from the Canadian Geological Foundation (CGF) for the Careers in Earth Sciences project.

CGEN membership has tripled over the past five years, and there are now over 150 members. *Action: all CGEN members are encouraged to suggest or solicit new members.*

CGEN's website <http://cgen.bio.ns.ca/> was updated. *Action: suggestions and comments are welcomed; they can be sent to me at [cgen@sympatico.ca](mailto:cgen@sympatico.ca).*

Finally, congratulations are in order. CGEN members received three of the Geological Association of Canada's top honours: Ron Clowes (Logan Medal), Fran Haidl (Ward Neale Medal) and Godfrey Nowlan (Ambrose Medal). CGEN members were also instrumental in sending in nominations for the Yves Fortier Earth Science Journalism Award, which went to the Toronto Star's science reporter Peter Calamai. More information is at: <http://www.esd.mun.ca/~gac/MEDALS/medal.html#awards>

**Issues facing earth science education** (all)

The excellent education and outreach session put together for Halifax 2005 by Eileen van der Flier-Keller, Jane Wynne and Jennifer Bates stimulated a lively discussion about issues facing earth science education in Canada, with the result that there was unanimous support for this becoming the major discussion item at the CGEN meeting. Most of the morning was spent on it, and the result was an action plan to move forward on the roadblocks hindering earth science education in Canada. The first one to be tackled is to lobby for university admission status for the earth sciences across the country. This is a particularly critical step, and one with a potent domino effect on all earth science

education and outreach efforts. Until the earth sciences are validated at the university admission level, there is little benefit for educators at the lower levels to work them into their already overcharged teaching requirements.

Eileen and Greg Finn will take the lead on this first task. The action plan involves:

- Compilation of existing statistics (e.g. number of schools that teach earth science and enrolment numbers, entrance requirements and the place that earth sciences hold in the universities, etc.). It was agreed to start with British Columbia and Ontario as pilot areas. The baseline data will initially help us to clarify the vision of what we need to change and hope to achieve. It will later help us to track and measure any change. Improvements measured against this baseline will help us lobby for change in other jurisdictions, and make it easier to get support from industry and university professional groups, research councils, mining associations, school boards, town councils, and provincial politicians.
- Soliciting support and assistance from the Council of Chairs of Canadian Earth Science Departments (CCCESD) and the Canadian Council of Professional Geoscientists (CCPG). A letter will be sent to the heads of each group explaining the issue and describing CGEN's ideas for effecting a change. CGEN members will be kept informed and/or asked for assistance and feedback as this work moves ahead.

Other action areas identified were the need to: (1) ensure that the earth sciences are included in the training of new teachers, (2) increase awareness of high school counsellors about the career opportunities provided by the earth sciences, and (3) to use earth science courses to attract arts students to university science departments. Separate action plans will be developed for these at later meetings.

**Core project reports and issues** (*note: because of the time devoted to the "Issues" discussion, these reports were much abbreviated*)

#### **Careers in Earth Science initiative** (Christy Vodden for John Clague)

A prototype of the new website will be sent out to CGEN for review and comment in the near future (update: this was done in September; thank you to all who sent in comments). The revised prototype will be used to solicit content and as a fundraising tool – the initial concept ballparked the overall cost at about \$50,000 over a three-year period, moving through the development phase to ongoing maintenance. (Update: an application for PromoScience funding of \$60,000 was submitted for the September 15 deadline). Suggestions of groups to add to the external consultations were CCPG and universities. A website on federal science and technology (<http://www.sciencetech.gc.ca>), which has a careers section, might be a good connection for our website. *Action: Ann Therriault to check into this.*

**EarthNet** (Jennifer Bates)

EarthNet is going well, thanks to funding it will receive from the GSC's GENCOM project over the next two years. This has allowed the hiring of a contractor, Stephanie Douma, who will be working two-thirds time, from November-March, pulling together content. The major challenge facing EarthNet is to get a better regional balance of content by linking with people across Canada involved in outreach.

**EdGEO** (Eileen Van der Flier-Keller)

The EdGEO report is attached as Appendix 2. In 2004, there were 11 workshops, involving 213 teacher participants in four provinces. For 2005, the outlook is excellent, with potentially 19 workshops going ahead. An encouraging trend is that some EdGEO projects are starting to self-fund. With the number of workshops increasing and the funding base remaining the same, the EdGEO executive is treating fundraising as a priority. The newsletter continues to be a valuable information tool (thanks to editor Dave Mate and all who contribute). Wider distribution of the newsletter was discussed. *Action: Eileen to provide an email version to Christy for circulation to CGEN.* It was also suggested that all teachers, who have attended a workshop, should have option to receive a copy by email.

**Geoheritage Project** (Al Donaldson)

The Friends of Canadian Geoheritage project is mainly focussed in the Ottawa-Gatineau area, but it is hoped that this group will provide a model for other communities to follow. In the past year, the Ottawa-Gatineau Geoheritage Project (OGGP) has been very active in providing public talks and geotours, as well as taking part in a variety of community events (notably the City of Ottawa's 150<sup>th</sup> anniversary celebration). The OGGP has built good links with heritage groups (municipal, provincial and national), naturalist clubs, mineral clubs and river keepers. A particular success was work in Almonte that resulted in the local council setting up a rock "garden" in the town park showing local geology (Martha Grantham noted that the Johnson Geo-Centre has similar rock garden showing the geology of Newfoundland/Labrador). The OGGP produced a bilingual promotional brochure (with funding from the GSC) and is putting together a book on local building materials, with a focus on heritage buildings. Alan Morgan, via email, reported that the go-ahead for a Geological Time Trail in Waterloo, Ontario, was expected shortly.

**Geoscape** (Godfrey Nowlan for Bob Turner)

The Geoscape project continues to expand into exciting new areas with the development of waterscape posters and community-based posters. The latter are inexpensive to produce, are based on expertise available in small communities, and require only a geoscientist and a motivated high school teacher to act as coordinators. *Action: Anyone interested in tackling one for their community can get the template from Bob at [bturner@nrcan.gc.ca](mailto:bturner@nrcan.gc.ca).* There was some discussion about publicity linked to the various products developed under the Geoscape banner. *Action: Notices of new products should be sent to Christy for circulation to CGEN.* Erica Williams offered to do a presentation on Geoscape "opportunities" at her next teachers' conference. Laura Clinton, via email, reported that Geoscape Toronto won the Canadian Institute of Planners' 2005 Award for Excellence in the category of Environmental Planning.

### **What on Earth** (Jennifer Bates for Alan Morgan)

“What on Earth” has reached the end of its funding from PromoScience, so ongoing funding is a major issue. The next edition of “What on Earth”, which will focus on the Geoscape Grand River project, will be funded from the Ontario Government Youth S&T Program (update: this has now been published and can be seen at [www.whatonearth.org](http://www.whatonearth.org)). Content development is the other major issue. Previously Alan had tried to solicit volunteers from across the country to act as regional correspondents, but no one stepped forward. *Action: Those interested in volunteering should contact Alan at [avmorgan@uwaterloo.ca](mailto:avmorgan@uwaterloo.ca).*

### **Reports from CGEN member groups**

#### **Saskatchewan Geology Society** (Fran Haidl)

A new poster “Rockin’ around Regina” is in the works, and will be finished by next spring. Teacher feedback has been important for the poster concept, particularly where size is concerned (they want something that fits on a door).

#### **Lithoprobe** (Ron Clowes)

“Dancing Elephants & Floating Continents - The story of Canada beneath your feet” has been shortlisted for three childrens’ book competitions, and is an excellent resource for teachers. An accompanying teachers’ guide is now available online at <http://www.lithoprobe.ca/media/>. There was strong support from CGEN for Ron following up with the publisher (Key Porter) for a lower-priced paperback version. The Lithoprobe Secretariat has a good supply of a brochure on Lithoprobe that could be supplemented with regional insets. *Action: Ron to bring sample to January meeting for further discussion.* There was also discussion about reconstructing the technical poster, “Trans-Canada Crustal Cross-Section”, as an educational resource. There was strong support for this idea: suggestions included keeping the seismic data, and possibly supplementing the poster with simplified explanations from “Dancing Elephants”.

#### **Geology of Canada, and geology and art** (Rob Fensome)

The concept of the “Geology of Canada” book was well covered by a special session at the GAC/MAC meeting. Rob was appreciative of the level of support for the project and the excellent feedback on the concept. A working plan will be clarified by the end of the year. He stressed that the book has to be superbly illustrated, and he brought some original artwork, recently commissioned by the Atlantic Geoscience Society, as an example of the level of quality they will aim for.

#### **Mineral Map of Canada** (Pierrette Tremblay)

This gorgeous new poster is now available. Pierrette thanked CGEN members for their help and constructive comments during content development, and in their enthusiastic response to buying into the print run, which will ensure that the poster gets out more widely across the country.

### **News from Nunavut** (Linda Ham)

Undaunted by a day and a half blizzard closure, Claudia Riveros and Laura Clinton delivered earth science and mining workshops to about 20 teachers as part of a professional development conference for about 500 teachers in Iqaluit. The main issues were linked to varying knowledge levels of the teachers, and the commitment from those who signed up (up to half did not turn up to some sessions). A good outcome was the development of a geological timeline for Nunavut. A Nunavut Training Strategy is in the works, and is in need of a coordinator.

### **Northern outreach at GSC** (Godfrey Nowlan)

This is a very active program at the GSC that is, amongst other things, pulling together Geoscapes for northern communities, putting on EdGEO workshops, and supporting the development of EarthNet. A series of fact sheets is also in the works; they provide information of particular relevance to northerners (aggregates, Canoil pipeline, carving stone, diamonds, tar sands, Polaris, Pine Point, metals from the seafloor, Tyndall stone, Yellowknife gold, etc.). The fact sheets should be printed shortly and they will also be available online. *Action: Godfrey to advise Christy when fact sheets are available, so CGEN can be alerted to their availability.*

### **Nova Scotia news** (Howard Donohoe)

The Atlantic Geoscience Society (AGS) has an annual award for photographic images, and this has been greatly supplemented by Rob Fensome's initiative to connect with N.S. photographic clubs. This has yielded excellent images, some of which were used in AGS's book "The Last Billion Years". Lesson plans (in progress) are the latest spin off of this Canadian best seller. Eagerly awaited is the third edition of the popular geological highway map of Nova Scotia (update: this has been released; details at <http://ags.earthsciences.dal.ca/ags-pubs.htm>). Other AGS projects include a "Parks for People" booklet that has guided geo-walks in provincial parks; self-guided building stone walks; elder hostels programming; and PD days in-service, including a "mini" EdGEO workshop.

### **Nova Scotia Museum of Natural History** (Martha Grantham)

The Museum had a very full program of earth science-related activities in the past year, including two major exhibits: an interactive one on trace fossils, and one with robotized dinosaurs (which had over 70,000 visitors). An associated March Break program "Dinosaurs at the Museum" had 19,000 visitors in nine days; other linked programs included dino-treks, sleep-overs and birthday parties. Eight public lectures were held in Museum/AGS "The Last Billion Years" speaker's program, and a Rock Walk to Peggy's Cove and three museum classes were offered. The Museum also provides educational kits on a range of earth science topics, and over 150 were loaned out during the 2004-2005 school year.

### **NWT Geoscience Office** (Donna Schreiner)

The NWT Geoscience Office has some very interesting projects on the go, including a mapping project, which engages the local community to produce a geological map of their "backyard", and a field school project with the University of Alberta that gives

students practical field experience, while at the same time producing a geological map for a previously unmapped region. The NWT Office is also active in Mining Week; the Yellowknife Geoscience Forum, which now includes an outreach component; the NWT Geoscape project; International Polar Year; and in planning for the outreach session of the 2007 GAC/MAC meeting to be held in Yellowknife. Check out their website for more information: <http://www.nwtgeoscience.ca/outreach/index.html>

#### **Update from the GSC/NRCan** (Ann Therriault/Claudette Pellikan)

There is a lot of activity linked to public outreach and education coordinated by Natural Resources Canada (NRCan) on behalf of the GSC. Media work has involved 321 calls from journalists since January. Connections with schools and clubs (Scouts and Guides) are excellent. Claudette exhibited a new poster on Sir William Logan that was produced as part of the celebration of the 150<sup>th</sup> anniversary of the Earth Science Information Centre (previously the GSC Library). The poster includes a resource guide, and it is available from any of the GSC bookstores ([http://gsc.nrcan.gc.ca/bookstore\\_e.php](http://gsc.nrcan.gc.ca/bookstore_e.php))

#### **Atlantic Geoscience Society & NSERC CRYSTAL** (Jennifer Bates)

The AGS was involved in the development of an NSERC Centres for Research in Youth, Science Teaching and Learning (CRYSTAL) proposal for the Atlantic Provinces, led by the University of New Brunswick, and which has been successful in securing \$200,000 a year for the next five. AGS, as part of the St. Francis Xavier University's contribution to the Atlantic Provinces proposal, will be active in this exciting initiative. See the NSERC media announcement at [http://www.nserc.gc.ca/about/initiatives/crystal\\_result\\_e.htm](http://www.nserc.gc.ca/about/initiatives/crystal_result_e.htm) for full list of successful projects. *Action: Jennifer to keep CGEN posted on developments.*

#### **Curriculum revision in B.C.** (Erica Williams)

The new draft curriculum for B.C. will be released shortly, and Erica will put together some documents for comment by the working group that was set up at the CGEN winter meeting. EdGEO workshops will also have to play role in correcting errors in the curriculum. *Action: Erica to coordinate with working group and EdGEO.*

#### **PDAC Mining Matters** (Stella Heenan for Laura Clinton)

See Appendix 3 for Laura Clinton's report. As part of its participation in the Nunavut Workshop, Mining Matters materials were adapted to create a Nunavut teacher's resource kit, and new material was created to incorporate traditional knowledge. Mining Matters also collaborated with the Ontario Mining Association to develop teacher's resources linked to the video/DVD project "Mining New Opportunities", which provides information to First Nations about the benefits of responsible mineral resource development – these materials are available in five languages and have been sent out 160 First Nations groups. The demand for in-service workshop remains strong (30 were held during the school year, including six to teachers in three remote First Nations communities and three to students enrolled in the faculties of education at Brock, York and the Ontario Institute of Studies in Education). Mining Matters also took part in the successful Mining in Society show put on by the Canadian Institute of Mining and Metallurgy at their April conference in Toronto; 750 students attended. Stella also reported that she is working with Laura to develop a Grade 12 resource of 20 activities

that will cover the entire earth science curriculum using the diamond story. This should be available in the fall.

### **Polaris** (Stella Heenan)

In December, the Polaris website ([www.polonet.ca](http://www.polonet.ca)) posted lesson plans on earthquakes. These were funded by PromoScience, and involved the rewriting of the U.S. website. Feedback from teachers has been very positive. They really like the Canadian content.

### **Royal Ontario Museum** (Dave Rudkin via email)

ROM is in the midst of a major renovation. Of particular interest to CGEN, four new earth science-related galleries will be built over the next three years. Galleries highlighting the fossil record of the Mesozoic and Cenozoic are slated to open in mid- to late-2006. An early Earth and early life (the Precambrian and Paleozoic fossil record) gallery, along with a new mineral, gem and meteorite gallery, will open in 2007. Despite the demands of the project, ROM earth scientists and palaeobiologists have maintained an ambitious schedule of formal teaching and public education. The popular free bimonthly identification clinics (rocks, minerals, and fossils) continue to attract many visitors, and a varied program of talks, workshops and special exhibits has been kept going both inside and outside ROM. As well, web-based enquiries on earth science topics keep increasing (Dave notes that he fields 30 to 40 information requests each month).

### **Opportunities and new initiatives**

#### **National Science & Technology Week** (Claudette Pellikan)

This annual event, held in October, began as an Industry Canada public awareness of science initiative. When funding dried up, Industry Canada encouraged participating groups to continue it at the community level – an idea that did not really catch on. The GSC, however, kept it going in Ottawa with school tours and a family-oriented open house. Building on its success, the Ottawa event has grown into a much larger, multi-departmental event hosted by Natural Resources Canada, with funding that supports events across the country. This year's celebration will include a Geoscience Awareness Day and the launch of a new Government of Canada website <http://science.gc.ca>, with 11 Ottawa-based science departments taking part in the week-long celebration. The bottom line for CGEN is that NSTW provides an excellent opportunity to increase public awareness of the earth sciences and to expose students to the earth sciences as a career option. More information can be found at the website <http://nrcan.gc.ca/nstw-snst/>.

In the ensuing discussion, Claudette flagged another interesting opportunity – the annual “Take our Kids to Work” event; details at: <http://www.takeourkidstowork.ca/>. There was also great interest in the activity that Ann Therriault contributes to NSTW school tours in Ottawa; she critiques the scientific accuracy of Hollywood blockbusters that touch on earth science natural disasters. *Action: Ann agreed to compile notes from her four film critiques and share them with CGEN.*

### **Geohazard education** (Godfrey Nowlan)

A free public forum “When the Earth Shakes: Lessons learned from recent natural disasters” was offered as part of the GAC/MAC conference. Its aim was to bring together geoscientists, journalists and the public for an exchange of ideas. The Forum was successful in that the participants evaluations were very good, but it was poorly attended (only 60 in a room set up for 200). The organizers are assessing the next steps: an article for *Geoscience Canada* is under consideration, plus, for the longer term, there may be some opportunities in the International Year of Planet Earth to do a Canadian global outreach event involving CGEN.

### **Funding opportunities** (Christy Vodden)

An updated listing of possible funding sources for earth science projects is attached as Appendix 4. Of note, is the new Ontario Government program, Youth Science and Technology Outreach Program (Y-STOP). This is a \$3 million, three-year funding program that supports projects connecting Ontario researchers with high-school aged youth. The website is <http://www.mri.gov.on.ca/english/programs/YSTO-Program.asp>.

Dixon Edwards raised the question of whether groups outside CGEN’s core projects could apply for funding from CGEN. Discussion focussed on the lack of any mechanism for this, and the difficulty (given the small amount of money available – just over \$15,000 for general CGEN activities) of implementing one. There was general agreement that other sources should be approached for funding in such cases.

### **International Opportunities** (Ann Therriault and others)

At the time of the CGEN meeting, the Government of Canada had not committed funding to the International Polar Year, 2007-2008. (Update: on September 21, 2005, \$150 million was announced, with two major research priority areas identified: climate change impacts and adaptations, and health and well-being of northern communities. A Call for Proposals was issued on December 19, 2005 with a deadline of March 10, 2006; all details are at <http://www.api-ipy.gc.ca/>. NSERC has also put out a request for proposals; check: [http://www.nserc.gc.ca/professors\\_e.asp?nav=profnav&lbi=a4\\_polar](http://www.nserc.gc.ca/professors_e.asp?nav=profnav&lbi=a4_polar) -- deadline is November 28. To encourage the next generation of polar researchers, the Canadian IPY Steering Committee is putting in place a Youth Steering Committee.)

NSERC has now put out a request for proposals. For more information, check the website <http://www.ipy-api.ca/>. To encourage the next generation of polar researchers, the Canadian IPY Steering Committee is putting in place a Youth Steering Committee).

The International Year of Planet Earth (IYPE) initiative, led by the International Union of Geological Sciences (IUGS), still remains to be officially ratified. There are concerns that is proposed timing, which coincides with International Polar Year, will be awkward. (Update: IYPE appears to have been now officially sanctioned for 2008; the website is <http://www.esfs.org/>).

Ann also flagged the U.N. Decade of Education for Sustainable Development (DESD), 2005-2014. The Unesco website is at <http://portal.unesco.org/education/> (link to the DESD is on the right side of the homepage, under heading “Coordinating Global Drives”).

**International liaison** (Jennifer Bates for Alan Morgan)

**International Geoscience Education Organization (IGEO)**

The IGEO website is up and running at [www.geoscied.org/](http://www.geoscied.org/). *Action: CGEN members are invited to submit articles for the IGEO's online newsletter; contact the editor Bronte Nicholls at [slab@internode.on.net](mailto:slab@internode.on.net)*. The next IGEO conference (GeoSciEd V) will take place in Bayreuth, Germany, September 18-21, 2006. All details can be found at <http://www.bgi.uni-bayreuth.de/~geoscied5/>.

IGEO is conducting a survey to benchmark outreach, curriculum, and other undergraduate education levels in the different member countries. Stella Heenan and Eileen Van der Flier-Keller are working with Alan to modify the questionnaire to suit CGEN purposes.

**IUGS Committee on Earth Science Education, Training and Technology Transfer**

This committee met in Boulder, Colorado last November to put together a strategy, which was then submitted to IUGS. Alan reports that more work is required on the strategy as IUGS was not happy that education and outreach had been emphasized over training and technology transfer.

**Timing for winter meeting** (all):

The winter meeting will take place the day after the Cordilleran Roundup (Friday, January 27, 2006, 9:30 a.m. – 4:00 p.m., at the Simon Fraser University Harbour Centre). All are welcome to attend.

Christy Vodden  
Secretary-Treasurer,  
Canadian Geoscience Education Network

November 22, 2005

**Appendix 1**

**Canadian Geoscience Education Network  
2004-2005 FINANCIAL REPORT**

Balance at last report (as of April 30, 2004) +\$43,350.48  
(*\$1.52 variance from last report is interest earned on April 30, 2004*)

Incoming funds:

Geoheritage, GSC grant, 04/05/04 +\$1,500  
EdGEO, GeoSciEd IV contribution, 19/05/04 +\$10,000  
CGEN, 2003-2004 CGC contribution, 24/06/04 +\$5,000  
Geoscape, Ontario Govt. funding for Year 3, 14/07/03 +\$30,000  
Careers in Earth Science, CGF reimbursement, 21/12/04 +\$2,500  
Geoheritage, speaker's fee +\$200  
CGEN, interest (May/04 – April/05) +\$24.52  
Sub-Total: +\$49,224.52

Outgoing payments:

CGEN, C. Vodden, office/winter meeting expenses, 18/05/04 -\$226.02  
EdGEO, GeoSciEd IV contribution, 21/06/04 -\$10,000  
Careers in Earth Science, J. Sabeau, 29/06/04 -\$400  
Geoscape Grand River, A. Morgan, 05/07/04 -\$851.50  
Careers in Earth Science, J. Sabeau, 08/07/04 -\$600  
CGEN, AGM catering, 20/07/04 -\$83.66  
Careers in Earth Science, J. Sabeau, 01/10/04 -\$800  
Geoscape Toronto, Map IT, 13/10/04 -\$1,912.63  
Geoscape Toronto, Babel Fish Corp., 13/10/04 -\$994.67  
Geoscape Toronto, Pangaea Education, 13/10/04 -\$1,354.62  
Careers in Earth Science, J. Sabeau, 14/10/04 -\$1,200  
Careers in Earth Science, J. Sabeau, 16/11/04 -\$1,500  
Geoscape Ottawa, F. Fiset, 25/11/04 -\$5,000  
Geoheritage, Q. Gall, 26/11/04 -\$50  
Geoscape Ottawa, J. Weatherhead, 29/11/04 -\$5,000  
Geoscape Toronto, GTA Mailing, 23/12/05 -\$5,758.11  
Geoscape Toronto, V. Doyle, 01/02/05 -\$224.25  
EdGEO, 2004-2005 allocation from CGEN, 08/02/05 -\$3,000  
Geoheritage, Allegra Printing, 24/02/05 -\$919.96  
Geoscape Toronto, GTA Mailing, 08/03/05 -\$2,860.23  
CGEN, Simon Fraser, winter meeting luncheon, 17/ 03/05 -\$303.50  
Geoscape, Grand River, @morgan web pages, 05/04/05 -\$2,500  
CGEN, J. Smith, web upgrade, 28/04/05 -\$100  
Sub-Total: \$45,639.15

Internal transfer (Geoscape to CGEN):

CGEN, Geoscape Grand River, mgmt fees, 27/03/05 \$750  
CGEN, Geoscape Ottawa, mgmt fees, 29/03/05 \$500  
CGEN, Geoscape Ottawa, mgmt fees, 07/04/05 \$500

Sub-Total: \$1,750

**BALANCE: \$46,935.85**  
CGEN portion: \$15,633.24  
Careers portion: \$1,000  
Geoscape portion\*: \$29,572.57  
Geoheritage portion: \$730.04

\*Breakdown for Ontario Government funding of Geoscape projects (total \$90,000):

- Grand River (\$40K): Y1: 20K, Y2: \$5K, Y3: \$15K
- Ottawa (\$20K): Y1: 5K; Y2: \$15K, Y3: \$0
- Toronto (\$30K): Y1: 10K; Y2: \$5K, Y3: \$15K

Christy Vodden  
Secretary-Treasurer  
May 14, 2005

**EdGEO Report for CGEN, May 19th 2005**

E. Van der Flier-Keller

## **I. Workshops**

Eleven workshops proceeded in **2004**, involving 213 teacher participants and four provinces (BC – 5, Alberta – 4, Ontario and Nova Scotia – 1 each). Total EdGEO funds disbursed (grants minus refunds) were \$18,763.24. In addition, two workshops were funded and cancelled (New Brunswick and Newfoundland) and two were funded and postponed until 2005 (Nanaimo and Edmonton – not included in 2004 costs).

Congratulations to the Atlantic Geoscience Society in Nova Scotia, the EdGEO on August 2004 was their 10<sup>th</sup>!

**2005** is looking extremely healthy. Eleven workshops have taken place so far, spread across Nova Scotia, Saskatchewan, Nunavut, Alberta, the Yukon and British Columbia. Two more have been funded and six other workshops are being planned for 2005 (two of these in Ontario and one in New Brunswick).

## **II. Finances**

### **Funds Received**

**2004** Grants were received from CSPG (\$12,500), CGEN (\$3,000), PAC-GAC (\$1,000), as well as a very generous donation from the Calgary Local Organising Committee of GeoSciEd IV (\$10,000). Grants totaled \$26,500. An application to PromoScience on behalf of EdGEO was not successful.

**2005** CGEN funds (\$3,000) and CSPG funds (\$12,500) have been received. GAC was unable to fund EdGEO and suggested that we apply to CGF for funds. An application for \$10,000 to fund new EdGEO workshops has been submitted to CGF. MAC will discuss our funding request at GAC-MAC.

### **Funds Disbursed**

Our total workshop costs in 2004 were \$21,022.18 (this includes the still outstanding \$674.71 refund from the St. Catherine's workshop in May 2004). So far in 2005, we have paid out \$23,878.35 towards workshops. Six more workshops will likely be requesting funds this year.

Our current balance in the bank is \$29,713.07.

## **III. Other**

**Newsletter** David Mate has done a great job of putting the newsletter together. Thanks to Dave and all of our contributors. All you workshop organisers, please remember that

EdGEO will refund \$50.00 of a participating teacher's registration fee, in return for a comment/report from a workshop they attended.

**Geoscape** There have been a number of EdGEO workshops to date linking Geoscape and teachers. Victoria October 2002, Nanaimo February 2005, and now Toronto Geoscapers Laura Clinton and Ken Steele are working towards an EdGEO based on Geoscape Toronto and the fabulous set of student activities that were developed to be used in association with the poster. There are lesson plans being developed for the Saskatchewan poster also and EdGEO will put links to these sites on our website – good idea Fran!

## **PDAC Mining Matters - Report to CGEN May 2005**

***Nunavut Teachers' Workshops:*** Early this year PDAC Mining Matters and the Department of Economic Development and Transportation, Government of Nunavut, teamed up to deliver three half-day workshops for 60 teachers who came from across the territory to attend a teacher's conference in Iqaluit. Sections of the PDAC Mining Matters' resources were adapted to address the specific needs of the Nunavut teachers. New material was also created to incorporate traditional knowledge. The Nunavut teacher's kit included 20 lesson plans for grades 4 through 12, a selection of rocks and minerals, mineral testing equipment, geological maps, careers in mining handbook, Gayla Meredith's book about Canadian Diamonds, colouring books and posters.

***Mining New Opportunities - Ontario Mining Association Video/DVD project:*** PDAC Mining Matters collaborated with the Ontario Mining Association to develop a teacher's resource to build on the video/DVD project entitled "Mining New Opportunities." The project is designed to provide information to First Nations about the benefits of responsible mineral resource development. Together the video/DVD and teacher's resource illustrate the importance of sustainable development, showcase careers, skills and training requirements, and highlights the importance of mining to everyday life. The video and DVD is available in five languages: English, French, Cree, Ojibway and Oji-Cree. It has been distributed to 160 First Nations Communities in Ontario.

***In-Service Workshops:*** The demand for our Grades 4 and 7 resource kits continues to be strong with the delivery of 30 in-service workshops this academic year. This includes the delivery of six workshops to teachers in three remote First Nations communities (Cat Lake, Weagamow Lake and Slate Falls), and workshops for students enrolled at the Faculties of Education at Brock University, York University and the Ontario Institute for Studies in Education at the University of Toronto.

***Geoscape Toronto:*** Geoscape Toronto was selected in the Canadian Institute of Planners 2005 Awards for Planning Excellence as the winner in the category of Environmental Planning.

***The Mining in Society Show:*** A key component of the CIM conference this past April was the Mining in Society Show. This free special event was designed to raise public awareness and appreciation of the increasingly vital impact mining has on our daily lives. Teachers were invited to bring their students for this rare learning experience. PDAC Mining Matters developed a highly successful student program for the 700 students that attended. Kids panned for gold and participated in workshops such as cookie mining, I dig fossil fish, mineral crystal clusters, petroleum bingo and the case of the mystery mineral. A Mining Rocks Treasure Hunt was developed to enhance the learning experience and promote interaction between the students and the exhibitors.

## **Funding Sources: 2005 Update for CGEN**

**NSERC PromoScience:** Information about the 2005 competition will be posted by the end of June ([www.nserc.gc.ca/promoscience/](http://www.nserc.gc.ca/promoscience/)). The deadline for applications is September 15. PromoScience gave out \$2.6 million in 2004. Funding is generally multi-year over a three-year period, and the largest grant in 2004 was \$125,000 per year to the “Actua Core Programs and Outreach to Under-Represented Audiences”. The 2004 recipients can be found on the website – the only earth science project is the Canmore Museum’s “Stones and Bones Summer Program” (\$5,000 annually for the next three).

**Canadian Geological Foundation:** Disperses up to \$50,000 annually through its Trust Fund and the Jerome H. Remick III Endowment, with grants in the \$1,000 – \$4,000 range. In 2004, applications were slim and only \$22,000 was awarded. See the website (<http://www.canadiangeologicalfoundation.org>) for more information, including list of previous recipients. Deadline for applications is March 31, with recipients announced in June. Fundraising for the new **Geological Association of Canada Endowment Trust**, which has a strong public awareness and education component, is still underway. Grants will not be awarded until the sustaining capital goal is reached. All details can be found at <http://www.canadiangeologicalfoundation.org/GACRef.html>.

**Geological Survey of Canada grants and contributions:** Contact for information and application forms is Dan Richardson ([darichar@nrcan.gc.ca](mailto:darichar@nrcan.gc.ca)). Grants for outreach activities are in the \$500 - \$2,500 range. Applications can be sent in at anytime.

**Canadian Centre for Philanthropy:** The CCP publishes a directory of all Canada’s foundations and granting bodies. (~ 1700) The print version is available in public libraries, or can be purchased for \$350, or for \$450 annually one gets access to the online version, which is searchable by keyword database and is updated constantly. The website (<http://www.ccp.ca>) contains all the details, as well as a wealth of articles on fundraising, etc. The CCP Resource Centre, in Toronto, is open to the public, by appointment.

**TD Friends of the Environment Foundation** (<http://www.td.com/fef/index.jsp>) has both a youth and public awareness focus. **Ontario Trillium Foundation** ([www.trilliumfoundation.org/](http://www.trilliumfoundation.org/)), is an example of a provincial foundation with an environment/science awareness angle. Applicants for both must be a not-for profit organization, with a charitable registration number.

The Ontario Government **Youth S&T Outreach Program**, launched on April 1, 2005, is a \$3 million, three-year funding program that will support projects that connect Ontario researchers with high-school aged youth. Funding applications for summer projects were required by May 15. Longer-term projects are to be submitted September 15. Multi-year funding is possible. The website is [www.ontariocanada.com/science\\_outreach](http://www.ontariocanada.com/science_outreach).