

**Canadian Geoscience Education Network  
May 23, 2003 Meeting  
Vancouver, B.C.**

**Pop Quiz for All CGENers (answers follow at end of questions):**

- 1. Am I registered for GeoSciED IV?**
- 2. Do I know two teachers I can convince to go and have I tried?**
- 3. Do I have an activity worth reporting to “What on Earth”?**
- 4. Ditto for the EdGEO newsletter and EarthNet?**
- 5. Have I considered putting on an EdGEO workshop (there’s money available)?**
- 6. Do I know whether there’s a Geoscape poster for my neighbourhood, and am I using it?**
- 7. Have I ordered a copy of the new Geoscape Canada poster?**
- 8. If I am going to Vancouver, have I bought a copy of the fabulous new book on its geology by John Clague and Bob Turner?**
- 9. If I am going to Sudbury, am I planning to visit the new Dynamic Earth exhibit?**
- 10. Have I considered nominating someone special for the GAC’s Ward Neale Award for Public Awareness of Science?**

*Answers: If you answered yes to all ten, you are a CGEN saint, and will be suitably revered. If you answered no, all the information you need to become one is found in the notes below.*

**KEY POINTS, ACTIONS, DECISIONS**

In attendance: Diane Baldwin, John Clague, Ron Clowes, Fran Haidl, Alan Morgan, Ward Neale, Godfrey Nowlan, Sheila Stenzel, Pierrette Tremblay, Harvey Thorleifson, Bob Turner, Eileen Van der Flier Keller, Christy Vodden, Jane Wynne

**Approval of minutes of last annual meeting**

Approved as written.

**Changes to agenda**

Mining Association of BC Education Program and NWT reports on activities added.

**Financial report** (Christy Vodden)

The CGEN account at the end of 2002-2003 had a healthy balance of \$34,682.32, of which \$13,119.06 is for CGEN activities; \$3,000 (representing a grant from the Geological Survey of Canada/NRCan) is for the Careers in Earth Science project; and \$18,563.26 remains of the Year One allocation from the Ontario Government for the Geoscape Ontario projects -- Year Two funding of \$25,000 was approved, and should be received shortly. CGEN has proved successful in the past two years in seeking funding and providing an appropriate infrastructure (financial management, accountability, etc.). GeoSciEd IV is currently seeking funding from CIDA (\$48,000) in support of participants from developing countries, and, if successful these funds will flow through the CGEN account. During 2002-2003, CGEN provided support to EdGEO (\$3,000) and GeoSciEd IV (\$1,000), and received an allocation from the GAC (\$5,000).

Discussion focussed on challenges in securing funding from CGEN's traditional supporters. For the future, both the GAC and CGC may not be able to fund CGEN to previous levels, although each is looking at new ways of providing support, e.g. GAC is devising a strategy to fund outreach through the Canadian Geological Foundation, which can provide its donors tax deductible status. CGEN will need to look at alternative funding sources. Financial report attached as Appendix 1.

**New CGEN Executive** (John Clague)

The Executive for the next two years is Alan Morgan, President; John Clague, Past President; Jennifer Bates, Vice President; and Christy Vodden, Secretary-Treasurer.

**CGEN website** (Christy Vodden)

The CGEN website update is moving ahead and should be completed by the end of June. CGEN members will be invited to comment on the updated site before it is finalized.

**CGEN by-laws renewal** (Christy Vodden/John Clague)

Lack of time prevented this item from being handled at the meeting. It was agreed that the Executive would comment on the draft prepared by Christy, and their version would be circulated to all CGEN members for further comment.

**EarthNet** (Jennifer Bates via email)

Jennifer reports that she has not been able to focus much attention on EarthNet over the past year owing to other work priorities and commitments. Key to EarthNet's future will be the ability to find appropriate resources (time more so than dollars) to move the website development forward. Small contracts are under consideration for the Glossary and Dynamic Earth sections. There is also an issue of where to house the website in light of new Government of Canada website policies (i.e. would it be more appropriately housed on a commercial server?). Jennifer is considering resurrecting the EarthNet national advisory group for discussions on these points. This was considered an excellent idea. Discussion focussed on the need to work out a short-term strategy for EarthNet, with a view to what can be reasonably delivered given the time and resources at hand, and whether there are other ways of managing EarthNet (e.g. Pierrette Tremblay described the use of student helpers in building the website for the Quebec Geoscience Centre). It is important to provide continued input to this core CGEN project.

*Action: Contributions of educational resources and comments about EarthNet should be sent to Jennifer Bates: [jbates@nrcan.gc.ca](mailto:jbates@nrcan.gc.ca).*

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

Report attached as Appendix 2. There were eight EdGEO workshops funded in 2002, with a total of 170 teachers attending (with EdGEO funding of about \$14,000 this totals \$90.12/teacher). For 2003, there are exciting new developments, notably three workshops held in Nunavut (thanks to Claudia Riveros!), one scheduled in New Brunswick (led by Dave Lentz), and a walk in Edmonton looking at the geology to be found in downtown buildings. There was some discussion about the move to different models of EdGEO workshops, with agreement that this was a positive trend as it reflects the varying needs and realities of different regions across

Canada, but that care must be taken to ensure that the original concept of scientist/teacher interaction is still at the core of EdGEO activities.

A special EdGEO workshop to be held at the GAC/MAC meeting, May 24, has had a very enthusiastic response from teachers: the original 20 spaces had to be expanded to 30 to accommodate the demand, with seven geoscientists signed up. GAC gave \$1,000 towards the workshop. Given the positive response, Eileen strongly recommended that an EdGEO workshop become a regular feature of the annual GAC/MAC meetings. Alan Morgan suggested that EdGEO also consider a special workshop at GeoSciEd IV. *Action: Eileen to discuss with local organizing committees for future GAC/MAC meetings and with Godfrey Nowlan for GeoSciEd.*

The sustainability of funding for EdGEO is an issue. The bottom line is that EdGEO is paying out more than it is getting from its various sponsors. With expressions of interest to do workshops coming from more regions (Newfoundland, Yellowknife, Quebec City), this needs to be addressed. Discussion focussed on fundraising ideas, new potential sponsors (e.g. provincial ministries of education, or industry/innovation), sponsor appreciation, and input from the EdGEO local organizing groups. As a first step, existing “one-off” EdGEO sponsors will be approached with a request for a second donation prior to taking them off EdGEO newsletter (*Action: Jane Wynne*).

*Action: Contributions to the EdGEO newsletter should be sent to David Mate: [dmate@pgc-gsc.nrcan.gc.ca](mailto:dmate@pgc-gsc.nrcan.gc.ca).*

### **Geoscape project/Geoscape Canada** (Bob Turner)

There has been much Geoscape activity across the country, with a major launch in March of the Geoscape Toronto poster at the Prospectors and Developers annual meeting; with a launch planned for the Whitehorse poster; and with a distribution of the new Geoscape Canada poster to all parliamentarians – it will also be provided free to all registrants at GAC/MAC, the Canadian Association of Geographers annual meeting and GeoSciEd. The goal is to get a Geoscape Canada into every university and college earth science and geography department in Canada. Bob noted that Geoscape Canada is a more technical product than the community/region-based Geoscape projects and that there are some risks linked to the mailout to MPs. Pierrette suggested that geoscientists commit to personally presenting their local MPs with copies rather than mailing them out. It was decided in later discussions, that efforts would be better placed in getting regional posters to parliamentarians via personal contact with local geoscientists. This action will be considered in 2004 when the Saskatchewan and Ottawa posters are out.

For the future, the Ottawa and Southern Saskatchewan projects are close to release (summer/fall), with the Nanaimo, Atlin Falls, Grand River, Nunavut, Edmonton, BC Highway Map (based on Saskatchewan model) coming soon. Geoscape funding is largely tied to the GSC, which is undergoing a major program restructuring. There is a new trend at the GSC to embed outreach into program funding, e.g. a Dawson City and Northern BC Geoscape will be developed as part of an outreach project, led by Godfrey Nowlan, to support northern GSC programs. GSC has also assured funding to posters that are in the works. The new concept of “waterscape” posters has funding through the GSC groundwater program (Bowen Island is a pilot case). The goal is to produce a national series that tells the water story with a geologist’s

point of view (Canadian Water Resources Association has expressed interest in sponsoring). The Grand River Geoscape project is a nice crossover between the Geoscape and Waterscape concepts, as it will have a large groundwater component.

Diane Baldwin suggested that DIAND might be a possible funding partner for a Yellowknife waterscape, because of topical interest (Giant Mine closure/arsenic clean up). This would also link with GSC outreach projects in the north.

Fran Haidl reported that the Saskatchewan poster will be followed by teachers resource materials, and that the poster will be distributed free of charge to Saskatchewan schools.

There was a general discussion about the value of having an overall cost (ink and actual invoice) spread sheet for Geoscape projects. *Action: Bob Turner.*

*Note: To order the Geoscape Canada, contact the GSC Bookstore at [gscvan@gsc.nrcan.gc.ca](mailto:gscvan@gsc.nrcan.gc.ca) or by telephone (604) 666-0271*

#### **GeoSciEd IV** (Godfrey Nowlan/Alan Morgan)

Report attached as Appendix 3. Registration has passed the breakeven point, with 206 registered (includes accompanying members). Given the solid registration numbers, outreach and publicity have obviously been successful. There are delegates from 25 other countries, although American participation is lower than anticipated. There are still openings on all the field trips, social events, some workshops and in the exhibits area (12 of the 20 spaces are booked). CIDA funding has been sought to support developing country participants (\$48,000 for 18 possible registrants), but the timing of the decision will be very tight. Other fundraising efforts have been successful, with about \$90,000 raised to date. Of particular note, EnCana funding has lowered the banquet price from \$150 to \$30, and 27 teachers are being supported by EnCana and ConocoPhillips. Preliminary program and registration information is available at [www.geoscienced.org](http://www.geoscienced.org).

*Action: Consider registering for GeoSciEd, and pass on the information to any teachers you know.*

#### **What on Earth** (Alan Morgan)

Alan is planning a cross-country collection of articles for the next issue, which will be given out at GeoSciEd, and he invited CGEN members to contribute. The deadline is July 1. The new website is up and running. Minor adjustments will be made to the navigability, and an archive of the WAT on Earth issues will be linked.

*Action: All to consider submitting articles ([avmorgan@uwaterloo.ca](mailto:avmorgan@uwaterloo.ca)). Christy to add new What on Earth website to SchoolNet.*

#### **Careers in earth sciences initiative** (John Clague/Alan Morgan)

Progress has been limited on this project, but the fundraising prospects are encouraging: \$2,500 from the Canadian Geological Foundation and \$3,000 from Natural Resources Canada (GSC). Human Resources Development Canada has also said they would like to hear more about the

project once it moves forward (they fund career materials and training councils at the national level). Professional geoscience associations would also be interested in funding. The key is to get a template developed, so approaches can be made. A working group including John Clague, Alan Morgan and Jon Dudley will try to meet at GeoSciEd. *Action: Christy to send out package of materials comprising latest concept documents to the working group.*

### **Lithoprobe and CGEN synergies** (Ron Clowes)

Lithoprobe will be the subject of a children's book "Dancing Elephants and Floating Continents" by John Wilson, to be published shortly (possibly in time for GeoSciEd), by Key Porter. This will be an exciting addition to science literature for children (target ages 8-13). Key Porter is also interested in a version, authored by Ron and John Wilson, aimed at an adult audience. *Action: Ron to check whether Key Porter would like to have a display, or even better, a book launch at GeoSciEd.*

The Lithoprobe website is being totally revamped. It will be interactive for a broad range of users (media to scientific community). It should be online this summer, under the new address of [www.lithoprobe.ca](http://www.lithoprobe.ca). The Lithoprobe brochure is also being updated and will include regional inserts; it is expected out later this year. The Southern Cordillera poster, with an original print run of 2,000 is out of print, so an additional 500 were printed. *Action: CGEN members are asked to let Ron ([clowes@lithoprobe.ubc.ca](mailto:clowes@lithoprobe.ubc.ca)) know of their interest in regional posters.*

The final concluding scientific conference for Lithoprobe, which is scheduled for mid-October, 2004 at the Ontario Science Centre (OSC) will include a public outreach component. It was suggested that Lithoprobe could donate their conference poster to the OSC. Canadian Geographic will run a short article on Lithoprobe in an upcoming issue.

### **GAC Ward Neale Public Awareness Medal/CGEN input** (Harvey Thorleifson)

The GAC presents a range of prestigious medal on behalf of the broader geoscience community. The intent is not only to honour and validate individual achievement, but also to provide models for others to emulate and surpass. The Ward Neale Award is of particular interest to CGEN, and CGEN can and should play a strong role in ensuring that nominations are encouraged and put forward. The process is fairly streamlined, with a nomination notice going out in September and a final deadline of December 30. Discussion also focussed on CGEN's role in raising the profile of the Neale recipients (CGEN website link to GAC award page; press release in person's home community) and the value of external validation provided by other prestigious awards (Order of Canada, Canadian Science and Engineering Hall of Fame, Mining Hall of Fame, etc.), all of which require effort by groups to nominate individuals.

For those not at the CGEN meeting, we were honoured by the presence of Ward Neale and past recipients of the Award: Godfrey Nowlan, Alan Morgan, Pierrette Tremblay and Bob Turner. David Baird is the 2003 Ward Neale Medal recipient. He was instrumental in the development of the Royal Tyrrell Palaeontology Museum and has published a huge range of popular geology literature, including a series of park guides.

*Action: CGEN members to consider possible nominations for 2004; Christy to ensure that nomination notice is circulated. For reference the Medal website is:  
<http://sparky2.esd.mun.ca/~gac/MEDALS/neale.html>.*

### **New Canadian earth science education products/activities**

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

The Mineralogical Association of Canada (MAC) is producing this new poster, which will include web-based teacher resource materials. Pierrette asked attending CGEN members to provide comments on the poster mock-up. When published (soon), it will be distributed free of charge to teachers, thanks to funding from the Canadian Geological Foundation and the MAC.

*Action: any CGEN members interested in buying into the print run should contact Pierrette, email: [mac.amc1@sympatico.ca](mailto:mac.amc1@sympatico.ca).*

#### **New book on Vancouver geology (John Clague/Bob Turner)**

Just released, "Vancouver, City on the Edge", by John Clague and Bob Turner, tells the story of the geology of the greater Vancouver area and shows how geology affects the lives of everyone in the Lower Mainland. Illustrated with full colour photos and superb diagrams, the book is an excellent addition to the popular literature about geology. Available from Chapters or Tricouni Press, 3649 West 18th Avenue, Vancouver, BC, V6S 1B3, phone: (604) 224-1178; email: [books@tricounipress.com](mailto:books@tricounipress.com). Softcover, 191 pages. \$27.95. The GAC bought into the print run and provided a copy in each registration kit at the GAC/MAC meeting.

#### **New book on Winnipeg (Harvey Thorleifson)**

Another beautiful new book, which looks at Winnipeg history, includes opening chapters on geology written by Harvey. "Crossroads of the Continent: A History of the Forks of the Red and Assiniboine Rivers", edited by Barbara Huck, includes an overview of natural history, human history, fur trade, riverboats, railways, and the Forks today. Released on May 23, the book is available from major booksellers.

#### **Canada's new science magazine (Christy Vodden)**

SEED, published in Montreal, positions science within political, economic and cultural contexts. It provides a refreshing new slant on science, and promotes science as a glamorous occupation. Hard to find, but well worth the search. Chapters has it.

#### **Museum developments (various)**

- ❖ Science North in Sudbury has just opened a major new earth science display "Dynamic Earth", website <http://dynamicearth.ca/>.
- ❖ Pacific Mineral Museum has closed its Hastings Street location and will reopen at UBC.
- ❖ A new display atrium is being planned at University of Waterloo for its earth science museum.

**Free Handout: “Planning and Managing the Human Environment – The Essential Role of the Geosciences”** (Toon Pronk via email)

Toon has about 1,000 copies of this 12-page, glossy publication on geohazards, planning, urban engineering, groundwater resources, soil erosion, impacts of mining. It is a joint production of IUGS/GAC/CSPG. Those interested should contact Toon at [toon.pronk@gnb.ca](mailto:toon.pronk@gnb.ca).

**Reports from CGEN members**

**Mining Association of BC** (Sheila Stenzel)

The MABC Education Division has a dynamic range of activities aimed at BC teachers and students ([www.bcminerals.ca](http://www.bcminerals.ca)). Mining Week events (May 12-18) were well subscribed and included mineral identification, reclamation activities, and job shadowing opportunities. A special bookmark was produced for Mining Week, and copies will be provided to GeoSciEd. The MABC newsletter has an impressive distribution of 7,000, and it is an excellent tool for promoting MABC activities.

**NWT activities** (Diane Baldwin)

GNWT (Minerals, Oil and Gas Division, Resources, Wildlife and Economic Development) is also very busy bringing the earth sciences to public and student attention. Recent highlights include two prospecting courses held in April in Fort McPherson and Aklavik, with a third planned for Wrigley, NWT. Activities aimed at school and youth groups included two Skills Canada workshops in February led by local geologists attended by 200 girls and 200 boys from across NWT. Oil and gas education kits were sent to 40 schools, with 15 more being assembled; the goal is that each NWT school will have one. Mining Week (June 9-15 in Yellowknife) has a full schedule of activities coordinated through the NWT and Nunavut Chamber of Mines; with some 2,000 people expected to attend events such as Con Mine underground tours, Gold Fever movie, rock walks by local geologists, mall displays and the Miners Picnic including the mine rescue competitions, gold-panning, prospectors challenge and kids treasure hunt. A special placemat explaining local geology/mining will be distributed to local restaurants for Mining Week ([www.miningnorth.com](http://www.miningnorth.com)). Also in the works is a booklet on palaeontology that will be linked to a Fossil Hunt in Norman Wells in early August ([www.normanwells.com](http://www.normanwells.com)). The NWT Mining Heritage Society is working towards establishing an NWT Mining Museum at the Giant Mine site and a strategic planning session is next on the agenda for June ([www.nwtminingheritage.com](http://www.nwtminingheritage.com)).

*Action: Diane will provide an article on the Fossil Hunt for the August issue of What on Earth.*

**News from Nunavut** (Claudia Riveros' report is attached as Appendix 4)

**Québec news** (Pascale Côté via email)

Aïcha Achab and Pascale are involved in the St. Lawrence Valley waterscape, which has some funding from the GSC groundwater program. They have also applied to the Québec Dept. of Culture and Communications for a grant. Two other projects are in the works: a fieldtrip guidebook for the Québec region and educational materials connected to the Québec Geoscape, for which funds are being sought from the *Entente spécifique sur l'appropriation de la science et*

*de la technologie et la promotion des formations et des carrières de la Capitale Nationale.* a consortium of six Québec departments.

**Ottawa-Gatineau Geoheritage Project** (Christy Vodden for Al Donaldson)

Twenty-five scientists in the National Capital Region (NCR) set up this project to promote public awareness and preservation of local geoheritage. Following presentations to various groups, there has been a good response from the National Capital Commission, and local and provincial groups. Support and funding from the City of Ottawa Heritage Committee is the focus of current activity. Goals are to establish interpretative signage and brochures about the NCR's geoheritage.

**Next meeting**

The next meeting will be held in conjunction with GeoSciEd IV, in Calgary in August (another reason to register for GeoSciEd!). Date and time to be determined shortly.

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Canada K1Y 1B1  
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June 10, 2003



**Canadian Geoscience Education Network**

**2002-2003 FINANCIAL REPORT**

CGEN funds are in a TD Canada Trust (Ottawa) business account designed for non-profit organizations. It was opened in February 2000.

**Summary of Activity**

|  |               |
|--|---------------|
| Balance at last report (as of April 30, 2002)      | +\$12,587.83  |
| Ontario Govt. funding for Geoscape, 21/05/02       | +\$35,000.00* |
| Monthly charge (June only**)                       | - \$5.00**    |
| Geoscape Grand River, website, 05/07/02            | - \$5,123.80  |
| CGEN AGM (May) luncheon, 14/11/02                  | - \$268.84    |
| Geoscape Toronto, graphics, 15/11/02               | - \$472.94    |
| EdGEO, annual allocation, 07/02/03                 | - \$3,000.00  |
| GeoSciEd IV, advertising support 07/02/03          | - \$1,000.00  |
| Vancouver meeting (luncheon/Vodden misc.) 07/02/03 | - \$216.25    |
| NRCan, GSC grant for careers project, 18/03/03     | + \$3,000.00  |
| GAC 2002 allocation to CGEN, 28/03/03              | + \$5,000.00  |
| Geoscape Grand River, website 29/03/03             | -\$10040.00   |
| Geoscape Grand River, audio signs                  | - \$800.00    |
| Interest (May – December)                          | + \$21.32     |

|                    |                    |
|--------------------|--------------------|
| <b>BALANCE:</b>    | <b>\$34,682.32</b> |
| (CGEN portion:     | \$13,119.06)       |
| (Careers portion:  | \$3,000.00)        |
| (Geoscape portion: | \$18,563.26)       |

\* Breakdown for Ontario funding of Geoscape projects: Grand River 20K; Ottawa 5K; Toronto 10K. Year One ends March 31, 2003, but we have permission to carry over the unspent funds. Year Two's allocation of \$25K has been requested.

\*\*Monthly charges of \$5.00 stopped being deducted as of June 2002.

Notes:

1. Monthly fee may be reinstated, as bank can offer no explanation for stopping it.
2. The bank must be notified, in writing, of any changes to the CGEN Executive.
3. GAC requires a written request for the funds it allocates to CGEN each year. This can come from the Secretary-Treasurer.

Christy Vodden  
Secretary-Treasurer  
May 12, 2003

EdGEO Report May 2003

23<sup>rd</sup> May 2003*E. Van der Flier-Keller, Chair EdGEO***I. 2002 EdGEO Workshops**

| Location  | Teacher Numbers | Actual Expenditure | Actual Revenue           | EdGEO Grant | EdGEO Refund |
|-----------|-----------------|--------------------|--------------------------|-------------|--------------|
| Calgary   | 29 (Grade 7)    | 2929.34            | 2870.00                  | 2000.00     | 0.00         |
| Calgary   | 29 (Grade 3)    | 1955.18            | 1925.00                  | 1200.00     | 0.00         |
| Calgary   | 23 (Grade 7)    | 3011.07            | 2690.00                  | 2000.00     | 0.00         |
| Flin Flon | 10              | 3583.23            | 4250.00                  | 1000.00     | 900.00       |
| Tyrrell   | 19              | 8850.00            | 8850.00                  | 3000.00     | 0.00         |
| Digby, NS | 30              | 4813.95            | 5070.00                  | 2820.00     | 256.05       |
| Malaspina | 11              | 1023.15            | 1110.00                  | 1000.00     | 86.85        |
| MABC      | Approved        |                    |                          |             |              |
| Victoria  | 19              | 3103.23            | 3460.00                  | 3000.00     | 356.77       |
| Total     | 170             | \$14,420.33        | Average cost per teacher | \$90.12     |              |

***Geographic Distribution: Alberta 4, BC 2, Nova Scotia 1, Saskatchewan 1***

Thanks to all the enthusiastic EdGEO organizers and teachers around the country!

*“As a new science teacher with a very specialized background, the general nature of junior science curricula is daunting at times. These types of workshops are lifesavers, inspirational and necessary! Thank you for helping me to become a better teacher”*

*“excellent presenters – very knowledgeable and delivered info in a way that can be applied in the classroom”*

*“really liked the analogies and ideas to explain concepts to students – eggs, cookies etc. Great Handouts!- ideas resources”*

*“This was one of the most memorable weeks of my life. Thanks for the opportunity”*

*“Thank you to EdGEO for helping to fund this very useful professional development week – the best I’ve had in 23 years of teaching”*

*“Thanks for all the great resources. They will be helpful in the school”*

*“Inspirational and great ideas. Excellent presentations, great way to have different experts on different topics. Great connections to the curriculum, great hands-on experiences. Super useful material, resources and ideas. Very impressive expertise and knowledge. Well done – thank you very much”*

*“The entire workshop is the best I’ve ever attended. I cannot believe the amount of materials. Wow! They are practical and so useful”*

*“Every teacher of any earth science should be here”*

## II. 2003 EdGEO Workshops

| Location                   | Teacher Numbers | Date           | Content   | EdGEO Grant | EdGEO Refund |
|----------------------------|-----------------|----------------|---|-------------|--------------|
| Calgary                    | 31              | February 8     | Grade 7 Planet Earth                                  | 2300.00     | 242.28       |
| Kitikmeot, Cambridge Bay   | 12 (Gr. 4-9)    | February 26,27 | Grade 4-6 rocks, minerals and erosion                 | 1900.00     | 365.75       |
| N Qikiqtani Resolute       | 7 (Gr. 4-6)     | March 4        | Grade 4-6 rocks, minerals and erosion                 | 1900.00     | 202.48       |
| S Qikiqtani Iqualuit       | 6 (Gr. 4-9)     | March 12       | Grade 4-6 rocks, minerals and erosion                 | 1900.00     | 286.96       |
| Kivalliq Baker Lake        | DID NOT         | RUN            |   | 1325.00     | 1325.00      |
| Drumheller Tyrrell Museum  |                 | July 21-25     | Field Studies in Palaeontology Geology                | 3000.00     |              |
| Drumheller Tyrrell Museum  |                 | August 4-8     | Field Studies in Palaeontology Geology                | 3000.00     |              |
| Yoho Burgess Shale         |                 | August 22-24   | Earth Science enrichment                              | 3000.00     |              |
| AGS New Brunswick          |                 | August 11-13   | Geoscience, incl. geology and mineral resources of NB | 500.00      |              |
| Mining Association of B.C. |                 | July 2-12      | Mineral Resource Developmnt                           | 3000.00     |              |
| Vancouver GAC-MAC          | 30              | May 24         | Grade 7,8, 10 earth                                   | 2591.59     |              |

|                              |                             |         |  |            |           |
|------------------------------|-----------------------------|---------|--|------------|-----------|
|                              |                             |         | science units                                      |            |           |
| Dixon<br>Edwards<br>Edmonton |                             | June 14 | Rocks and<br>minerals in<br>buildings,<br>Edmonton | 558.80     |           |
| Total                        | 12 (1 of which did not run) |         |  | \$24975.00 | \$2422.47 |

### III. EdGEO workshop at GAC-MAC-SEG, Vancouver 2003

*This is teacher workshop to which interested GAC-MAC geoscientists have been invited, so that they can observe a real EdGEO in action. Four geoscientists have registered and we have two complimentary participants from the GSC Sales Office (Louise Fox was invited to attend as a thank you for handling all of the teacher registration). The teacher response was overwhelming, so we increased the number of teacher spaces to 30 from the original 20. Erica Williams, Bob Turner, Godfrey Nowlan and Bev Ross have done a fabulous job putting the content and schedule together, and it promises to be a very inspiring day tomorrow. Thanks to GAC for providing \$1000 towards the cost of room/facilities rental, lunch and coffee.*

*Perhaps this is something that can be done in association with future GAC-MAC meetings as part of the outreach and professional development programs.*

### IV. Financial Matters

#### Financial Report

Grants have been received from CSPG - \$12,500, CGC - \$5000 and GAC - \$3,000 (total \$20,500), and a contribution of \$1000 from GAC for the current fiscal year has been given directly to the Vancouver Local Organizing Committee to assist with costs of the GAC-MAC EdGEO workshop.

Our grants for workshops will be \$17,500 this year, and so far the net cost of workshops to EdGEO is \$6,150 more than this. **This is not sustainable.**

#### Fundraising

*At the moment we are funded by GAC, CGC and CSPG. Thanks to Kim Mysak for his efforts with CIM, however we have not raised additional funds yet.*

*We are trying to expand the EdGEO program into all parts of Canada. There are interested groups in the Northwest Territories (Diane Baldwin) and Newfoundland (Martha Grantham) and several possibilities in Ontario. If these efforts are successful, we need to have funds to support these as well as ongoing and other future workshops.*

*This will have to become a major focus for the National Committee*

**SUMMARY REPORT ON GEOSCIED IV  
TO CANADIAN GEOSCIENCE EDUCATION NETWORK  
23 May 2003**

**REGISTRATION**

We now have 181 primary registrations with a total registration (including accompanying members) of 206. This achieves the break-even point for the conference (150). We will still lose some of these registrants because they are from developing countries and still hoping for financial support. We estimate that up to 25 registered delegates will not show up unless some form of financial assistance is available to them. We have had 30 registrations since the early registration deadline closed in April.

Registrations originate from 25 countries: Argentina, Australia, Austria, Bangladesh, Brazil, Cameroon, Canada, France, Germany, Iceland, India, Jamaica, Japan, New Zealand, Nigeria, Portugal, China, Russia, Slovenia, South Africa, South Korea, Taiwan, The Netherlands, UK, USA.

**FIELD TRIPS**

All but two of the field trips will take place. One was cancelled because of a lack of access to a gas plant and the other for lack of registrants. None of the trips is full yet.

**SOCIAL EVENTS**

Most registrants are taking advantage of the social events. The dinner at the Glenbow Museum will be well attended and the Zoo and Prehistoric Park event is nearly half full.

**WORKSHOPS**

The Geoscience Education Workshop is full; others are reasonably well attended, except the Exploration Game that will likely be cancelled.

**EXHIBITS**

Twelve of twenty possible Exhibit spaces have been booked. Exhibitors include: AGI, AGS, CSPG, CSEG, Calgary Science Network, Earth Seekers Software, IUGS, GSC-Calgary, Natural Resources Canada, Pearson Publishers, Scholars Choice Publishers, University of Calgary - Geology.

**PROGRAM**

The preliminary program is posted on the web site at [www.geoscied.org](http://www.geoscied.org). We have received 161 abstracts that are well distributed among the proposed symposia. In recent weeks, we have effected a move of about 15% of proposed talks to the poster sessions and the preliminary program has been constructed. There are still many uncertainties (late submissions of abstracts, withdrawal of abstract by delegates from developing countries, etc.). A summary of the program is as follows:



| Time             |                                      | Session 1    | Session 2                  | Session 3                           | Other                                 |
|------------------|--------------------------------------|--------------|----------------------------|-------------------------------------|---------------------------------------|
| 8.30             | Welcome                              |              |                            |                                     |                                       |
| 9.00             | King -<br>Keynote                    |              |                            |                                     |                                       |
| 10.00            | Refresment<br>Break                  |              |                            |                                     |                                       |
| 10.30            | Gadd -<br>Keynote                    |              |                            |                                     |                                       |
| 12.00            | Lunch                                |              |                            |                                     |                                       |
| 13.00 –<br>17.00 | Gadd –<br>Elementary<br>Ed. workshop | Reaching Out | Best Practice<br>Secondary | Effective<br>Teaching -<br>Internet | Educational<br>research -<br>workshop |
| 17.00-18.30      |                                      |              |                            |                                     | IGEO General<br>Meeting               |

### Wednesday August 13th

| Time        |                   | Session 1          | Session 2                     | Session 3                 | Other                                 |
|-------------|-------------------|--------------------|-------------------------------|---------------------------|---------------------------------------|
| 8.10        | Announcemen<br>ts |                    |                               |                           |                                       |
| 8.15        | Smol -<br>Keynote |                    |                               |                           |                                       |
| 9.20        |                   | Reaching Out       | Best Practice -<br>Tertiary   | Educational<br>Research A |                                       |
| 12.00       | Lunch             |                    |                               |                           |                                       |
| 13.20       |                   | Role of<br>Museums | Best Practice -<br>Elementary | Educational<br>Research A | Online and<br>Interactive<br>workshop |
| 15.30-17.30 | Poster sessions   |                    |                               |                           |                                       |

### Thursday August 14th

| Time        |                         | Session 1                | Session 2                              | Session 3                                  | Other |
|-------------|-------------------------|--------------------------|--|--|-------|
| 8.10        | Announce men<br>ts      |                          |  |  |       |
| 8.15        | Hildebrand -<br>Keynote |                          |  |  |       |
| 9.20        |                         | Role of<br>Museums       | Controversies<br>and<br>Catastrophes   | Educational<br>Research B<br>Aboriginal Ed |       |
| 12.00       | Lunch                   |                          |  |  |       |
| 13.20       |                         | Emerging<br>Technologies | Best Practice -<br>Outdoor<br>Learning | Aboriginal Ed                              |       |
| 15.30-17.30 | Poster sessions         |                          |  |  |       |





We are pleased to be able to report that 27 teachers have been offered support to attend the meeting. A total of \$23,000 from EnCana (\$15K) and Conoco Phillips (\$8K) has been disbursed to teachers.

Unfortunately, only \$6500 has been procured for support of delegates from developing countries. This support is from IUGS and has been used to encourage 5 delegates to attend. We are still waiting to hear from CIDA about any additional funds. If we raise any more funds that do not have to be dedicated to a specific purpose, we will use it to increase support from developing countries.

## FUND RAISING

We have been successful in raising \$80,500, distributed among donors as follows:

### Conference Sponsors

| Donor                | Amount          | Donor Level | Strings Attached       | Comments        |
|----------------------|-----------------|-------------|------------------------|-----------------|
| EnCana               | \$22,000        | Platinum    | Conference dinner      | Received        |
| Burlington           | \$5000          | Silver      | Unconditional          | Received        |
| CGEN                 | \$1000          | Bronze      | Conference Advertising | Received        |
| CGF                  | \$3000          | Bronze      | Field Guidebooks       | Needs follow-up |
| CSPG - ETF           | \$15,000        | Platinum    | Field Guidebooks       | Pending         |
| Talisman             | \$5000          | Silver      | Unconditional          | Pending         |
| <b>TOTAL</b>         | <b>\$51,000</b> |             |                        |                 |
|                      |                 |             |                        |                 |
| <b>Possibilities</b> |                 |             |                        |                 |
| CNRL, Shell          | \$5000          |             |                        |                 |
| Anadarko,            | -               |             |                        |                 |
| APEGGA               | \$15,000        |             |                        |                 |
| Mining Co.s          |                 |             |                        |                 |

### Delegate Sponsors

| Donor              | Amount          | Donor Level | Strings Attached                            | Comments                        |
|--------------------|-----------------|-------------|---|---------------------------------|
| IUGS<br>(US\$5000) | \$6500          | Silver      | Foreign delegates                           | Needs follow-up                 |
| EnCana             | \$15,000        | Platinum    | Teachers from EnCana communities            | Received<br>? Broaden criteria? |
| ConocoPhillips     | \$8000          | Silver      | Teachers from western Canada & Newfoundland | ? Broaden criteria?             |
| <b>TOTAL</b>       | <b>\$29,500</b> |             |   |                                 |

## **SARS, WEST NILE, THE IRAQ WAR, AIR CANADA AND OTHER DETERRENTS**

We continue to be very worried about all the factors that may hurt attendance at GeoSciEd IV. We feel convinced that the war on Iraq has severely cut participation from the United States. Only 40 Americans are among our registrants and we had hoped that they would be a solid majority of delegates. The National Science Teachers Association meeting held in the USA earlier this year had very low registration as well.

SARS continues to be a major concern. For example, we recently received a message from all Portuguese delegates that they had been advised not to travel to Canada and are asking for a special deal on refunds. We cannot really accede to this request without creating a precedent that could cause us considerable financial distress, should SARS become a problem again.

Air Canada is in deep trouble, the West Nile virus threatens from the east and we haven't even mentioned mad cow disease.....but we remain optimistic that we can put on a good show. At the very least, we are hoping that CGEN stalwarts will come to the meeting. We remain convinced that it is a wonderful opportunity for geoscience educators and outreach people.

Godfrey S. Nowlan  
Chair, Organizing Committee  
22 May 2003

**Update on Activities from Nunavut  
Claudia Riveros, Training & Development Specialist  
Dept. of Sustainable Development, Government of Nunavut**

**CGEN Annual Meeting, May 23 2003**

Please accept my apologies for not being able to attend the meeting. I have submitted this report to update you on our activities thus far that are associated with increasing public education in earth sciences in Nunavut.

My job at the Department is to increase public understanding and awareness in sustainable resource development and land use practices, as well as to help increase the number of residents entering careers in the resource sectors. Given that Nunavut's three most promising resource sectors are mining, tourism and fishing, increasing public education not only in earth science but also in science and technology in general is an obvious first step in achieving our goals.

Projects and initiatives associated with increasing public education in earth sciences:

1. **Nunavut High School Math and Science Awards Program** – A cash award is given every year to Grade 8, 10, and 12 students in each community, for excelling in math or science.
2. **Career Fairs** – Both local and regional fairs offer good opportunities to engage youth in career opportunities and educational requirements in the natural resource sectors.
3. **Nunavut Mining Symposium** – Our department and the Canada-Nunavut Geoscience office use this venue to deliver geoscience, mining and career-related presentations to local high school students.
4. **Mining Week** (8-14 June) – Now into its second year and organized by INAC, Mining Week allows geologists from across the territory to organized themselves and initiate activities that will raise public awareness in geoscience and mining in their communities. For example, this year I will set up a booth at our community's local grocery store and display, with the help of local prospectors, information about the geology and exploration activities across the territory. There, will also be colouring and story-writing contests.
5. **Geoscience Guides for Grades 4-6, 7-9 and 10-12 Teachers** – With the guidance and financial support of the EdGEO program, a Grades 4-6 geoscience teacher's guide was completed and delivered through workshops at three regional teacher conferences in February and March. Based on the overwhelmingly

positive feedback from teachers, guides for Grades 7-9 and 10-12 will also be completed and delivered through workshops.

The challenge in completing these guides is in gathering and incorporating Nunavut relevant geological information and Inuit traditional knowledge. The challenge in delivering the workshops is in the high cost per effort involved in delivering in 26 isolated communities and the limited resources to do so.

6. **Geoscience resources for youth** – We receive requests from teachers, visiting geoscientists and company geologists for educational resources that are Nunavut-relevant, on geoscience and mining for kids (i.e. games, colouring books etc.). Aside from INAC’s “Nunavut Rocks” newsletter and “Rock Talk” flyers with activities for kids, there isn’t a lot to choose from. Some excellent resources I have used to help me develop our own, Nunavut products include:
  - EarthNet (e.g. What’s it made of? Matching minerals and their uses game; geological time scale in terms of the 12-hour clock; and ice age resources)
  - Oak Ridge National Laboratory, Educator’s Corner and various other web sites for word puzzles
  - still looking for a good web site for activities on the mining cycle
  - NRCan’s scratching post for resource use activities
  - Mineral Information Institute for a wide variety of mining-related activities

Our intention is to post the final products on a Departmental educational web site, as a one-stop shop for educators and students to access these materials.

7. **GeoSciEd IV Conference** – I will be delivering a talk on “Increasing Geoscience Knowledge in Nunavut Classrooms” as well as organizing funding support for a few Nunavut teachers to attend the conference.
8. **Inuit into Geosciences Initiative** – We are developing a long-term strategy to increase Inuit representation in careers in science, engineering and in particular, earth sciences. The strategy will require strong collaboration between high schools, colleges and research institutions as well as an increase in cross-cultural competence.

*I hope this list provides you with an idea of what our Department is doing and in what direction it is headed in terms of increasing public awareness and knowledge in earth sciences. There are many challenges to overcome in Nunavut, including cultural differences, basic literacy, infrastructure, health and social problems, etc. However, we need not lower the bar, but instead, keep the path to attaining our goals as clear and relevant to Nunavut residents as possible. Our Department looks forward to continued collaboration with CGEN.*