



PRESIDENT'S MESSAGE - Carl Verley

Exploration in B.C. and the Yukon have at last picked up – some would say they are even booming – as they should be this time of year. Tom Schroeter of the BCGS has written up a great summary of current exploration activity, this comes to us courtesy of the Society of Economic Geologists – check it out inside.

The Section's new website is up and running. Derek Kinakin put a great deal of effort into setting up the website and many thanks are due him. Derek's work has been built on the efforts of Brett Gilley who revamped the site hosted at SFU which Peter Mustard redeveloped from the Cordilleran Section's original website developed by Greg Dipple and hosted at UBC – many thanks to these gentlemen! A really neat feature that Derek has added to the website is a photo archive – a repository of images taken over the years by those of us who have wandered about the varied landscapes offered by the Cordillera. Jim Ryan has taken the time to scan the first series of images for the archive some of his images of the northern Cordillera as well as some images supplied by Ted Danner of more local interest. It is hoped that the Photo Archive will grow and provide a resource for those looking for visual information on the Canadian Cordillera. The Section is looking for further contributions to the Photo Archive; keep us in mind when going through those photos. Derek has also added an innovative feature to

Section's website. Councillors now have the ability to "blog". This essentially allows us to post information on events and happenings around the Cordillera very rapidly. So keep an eye on the Front Page for current events such as Brown Bag talks. Bloggs can also be developed into forums on different topics or issues so if there is an interest in establishing sites for such forums let us know.

As of the last council meeting there have been a few changes to the executive. In particular we are sorry to see Dean Richardson leave. Dean was the Section's treasurer, but has recently moved to Methanex Corp. and finds that his duties there and with his family preclude a lot of other activities. Peter Friz of Acres International has taken over the treasurer's spot. Jim Ryan the Section's GSC rep has moved in the Vice-president's chair.

Attached are the Section's financial statements for 2003. As you will note we are still solvent and in a good position to look at new publishing ventures. The Section invested heavily in new publications such as GAC-MAC-SEG field guides and Vancouver Building Stone Geotours during 2003, which explains the decline in equity (inventory of unsold books does not show up in the statements). However, this will build up again through the year as further sales revenue is realized.

The Section intends to have an active Brown Bag session during the Fall and into 2005, so watch the Front Page for notices of these and other activities and events. Email notifications will also be undertaken.

Carl Verley



CONTENTS

PRESIDENT'S MESSAGE
UBC UPDATE
WIUGC REPORT
EXPLORATION REPORT
EVENTS
YUKON GEOSCIENCE FORUM
BALANCE SHEET
GEM STONE NEWS

PRESIDENT
CARL VERLEY
PAST-PRESIDENT
PETER MUSTARD
VICE-PRESIDENT
JIM RYAN
SECRETARY
DEREK KINAKIN
TREASURER
PETER FRIZ
NEWSLETTER EDITOR
STUART SUTHERLAND
PUBLICATION SALES
VACANT
MEMBERSHIP
KEITH PATTERSON
UBC STUDENT REP
JEFF BOYCE
COUNCILLORS AT LARGE
KEVIN CAMERON
TED DANNER
KEN HICKS
BROCK RIEDELL
BRETT GILLEY
CORDILLERAN SECTION GAC
P.O. Box 398
STN A BENTALL
CENTRE, VANCOUVER
B.C. V6C 2N2
www.gac-cs.ca

Awards and Honours

Congratulations to Alison Rust! - winner of the GAC Léopold Gélinas Gold Medal. The title of Alison's thesis is: Viscosity, deformation and permeability of bubbly magma: Applications to flow and degassing in volcanic conduits

Nick Austin was awarded the Jack Henderson Prize for best M.Sc. thesis from the Structural Geology and Tectonics Division of the GAC. His thesis is entitled "The role of texture on the brittle deformation of dolomite". Lori Kennedy was his supervisor. He is presently pursuing his Ph.D. at MIT.

Hot of the Press

JAMES SCOATES AND DOMINIQUE WEIS

Hf and Lu isotopic geochemistry of zircon by multiple collector inductively coupled plasma mass spectrometry MC-ICP-MS, Chemical Geology, 2004, Vol 206/1-2 pp 1-9

RON CLOWES

Cook, Frederick A.; Clowes, Ronald M.; Snyder, David B.; van der Velden, Arie J.; Hall, Kevin W.; Erdmer, Philippe; Evenchick, Carol A. Precambrian crust beneath the Mesozoic northern Canadian Cordillera discovered by Lithoprobe seismic reflection profiling Tectonics, Vol. 23, No. 2, TC2010 10.1029/2002TC001412 [28 p]



Volcano Paving Feature

Pacific Museum of the Earth at UBC

The redevelopment of the courtyard in front of EOS main (formerly the Geological Sciences Building) presented us with another opportunity to showcase the Earth, Ocean and Atmosphere aspects of the EOS department. The new development was visualized as an extension of the Pacific Museum of the Earth and as such the design had to function as a teaching and learning space in addition to being a pleasant space to relax.



Fluorite Paving Feature

Earth, Ocean and Atmosphere paths have been created, each leading a main focus area represented by two large inset "medallions" for Atmosphere and Ocean and a large "EOS Sphere" Sculpture for the Earth. Set into these paths are various symbols reflecting aspects of each of

these disciplines. Sculptural aspects of the project were handled by Canmore artist Tony Bloom.

The rock displays and the ore cart from the old courtyard have been restored and updated with new signage, the rocks being taken from various locations within B.C.

Close attention was paid to the planting scheme and where ever possible paleontologically significant species such as metasequoia, ginkgo and magnolia were used. The landscape architect involved with the project, Richard Finley, based the planting on a "waves" theme, a metaphor that is repeated in many aspects of the new garden including the low level stone walls and weather vane.

The courtyard is now a pleasant space to relax but also an area that encourages exploration of themes developed further in the museum and in the rest of the department. Additional views of the new courtyard can be seen on the last page of this newsletter.



Martha Piper (UBC President) and Paul Smith (EOS Head) by the "EOS-Sphere."

WIUGC 2004 - In Review - Julia Davison

This January, WIUGC 2004 erupted with knowledge, networking and fun! On behalf of the WIUGC 2004 organizing committee, and all of the WIUGC student delegates, I would like to thank each group and individual who contributed towards the conference. These outstanding supporters provided their time, expertise, equipment, and financial sponsorship. After all, there is only so much that can be generated from pure student sweat. And sweat, these student organizers most certainly did! I am honoured to have worked with such an efficient, effective and positive group of geophiles! However, without the generosity and assistance from all of our sponsors, WIUGC 2004 would not have been such a success!

What is WIUGC? It's the Western Inter-University Geology Conference, which is now celebrating it's 40th anniversary! On January 8th 2004, 223 student delegates from seven western Canadian universities congregated at the Coast Plaza Hotel in downtown Vancouver. The primary focus of WIUGC is to provide a professional conference venue in which undergraduate students can present their research to fellow peers. Graduate students are also welcomed participants, but are judged separately.

As at any successful conference, WIUGC is jam-packed with events and information. The rock-breaker night commenced with boat races; naturally, dancing followed. Friday morning students listened to a wide range of technical presentations by representatives from industry, professional organizations and government. A poster display session in the main foyer educated simultaneously. After, delegates enjoyed a free luncheon where guest speaker Tom Schroeder gave an overview on the economics of BC geology. Friday afternoon, students, industry, academia, and professional organizations mingled and networked at the Industry and Career fair. Thank you again to our sponsors: Shell Canada, Imperial Oil, University of British Columbia EOS department, APEG BC, CSPG, Encana and Placer Dome, for taking the time to set-up a booth at the fair. Student technical presentations began Friday afternoon and continued all day Saturday. There was a diverse mix of undergraduate and graduate talks in all geoscience related disciplines including geology, hydrogeology, geoenvironment, geophysics, sedimentology, geochemistry, regional geological mapping, etc.

Prizes for the best student technical presentations, awarded by the Canadian Society of Petroleum Geologists, went to Ryan Ickert of the University of Alberta (in the undergraduate category) and Louise Longridge of UBC (in the graduate category). Runners up were Patrick McLaughlin of the

University of Manitoba and Joshua Caulkins of UBC, in the undergraduate and graduate categories respectively. Poster presentations were also impressive with undergraduate winner Katie Smart of the University of Alberta and runner up: Jocelyn Johnson of the University of Manitoba. In the graduate category, first place went to Reza Tafti of UBC, with runner-up Melissa Bowerman of the University of Alberta. A special thank you to all of the judges who sacrificed their time in the name of student research.

On Friday night, social events were not forgone. A hockey game Friday evening became a friendly scrimmage between U of A and UBC. Student delegates were also bussed Friday evening into gas town for a taste of the Vangroover nightlife (where else in western Canada can you find such diversity or a 4am curfew?)

Saturday morning, the sharing of BC geological knowledge continued as a group of delegates attended the short-course by Dr. D. Thorkelson of Simon Fraser University on 'Ridge Subduction and Slab Window Formation'. All too often, geologists are confined to indoor urban cages (especially those in the frigid prairies)! To provide an escape, a field trip for a group of delegates was hosted by Dr. J Roddick and Dr. J Monger of the GSC on Saturday afternoon. They explained the local geology of Caulfeld Park, the Sea to Sky highway, Porteau Cove, and Stanley Park.

At last, the conference melted down on Saturday night with a formal banquet. WIUGC was honoured to have Dr. Lee Groat of UBC present the most recent blue emerald discoveries in the Yukon. Delegates continued to network into the wee hours as they danced and twistered the night away to local band, Los Furios. All said and done, WIUGC was unbelievably gneiss! After all, how often are conference delegates so friendly that the twister boards come out?



EXPLORATION REVIEW

By T.G. (Tom) Schroeter, British Columbia Ministry of Energy and Mines, Vancouver, British Columbia



Reprinted, with permission, from the Society of Economic Geologists July News Letter (www.segweb.org)



BRITISH COLUMBIA

A resurgence in exploration in British Columbia is in full swing, following more than a decade of very little systematic exploration. Expenditures in 2003 totaled \$55M; for 2004 the forecast is in excess of \$100M. For the first three months of 2004, claim-staking is up 90% from the previous year. In late 2003, the discovery of a new zone of copper-gold mineralization by **Imperial Metals** at its **Mount Polley** mine, which has been on care and maintenance status since 2001, revived interest in porphyry deposits in the province. The copper grades (with significant gold and silver credits) are some of the highest observed in British Columbia (i.e., >1% Cu). High commodity prices, mining industry confidence with the provincial government, and flow-through tax incentives are significant factors for attracting risk capital investment. Three mines currently on care and maintenance, **Gibraltar**, **Mount Polley**, and **QR**, are poised to re-open over the next couple of years; several advanced projects (e.g., **Afton**, **Red Chris**, **Kemess North**, **Galore Creek**, and **Willow Creek**) are heading toward mine development. Corporate restructurings, as well as the return of familiar faces, are once again leading British Columbia into a new era of exploration. During 2003, **Barrick Gold** produced 10,951 kg (352,070 oz) of gold and 527,775 kg (17 Moz) of silver from its **Eskay Creek** massive sulphide, underground mine, at an estimated total operating cash cost of US\$64/oz gold, net of silver co-product. In early 2004, Barrick completed a surface drilling program on its 22 zone, 2 km south

of the mine. During 2003, **Northgate Exploration** produced 34,554 t (75M lbs) of copper and 9,148 kg (294,117 oz) of gold from its **Kemess South** open-pit mine at an estimated total operating cash cost of US\$175/oz gold, net of copper credits. Seven km north of the mine, Northgate continued infill drilling on its **Kemess North** deposit, which contains a proven reserve of 414 million tonnes (Mt) grading 0.31g/t Au and 0.16% Cu. A revised prefeasibility study, released in May 2004, indicated that development of Kemess North could extend the Kemess mining operation to 2020. A final feasibility study is expected in mid-2004. In 2003, **Boliden-Westmin** (Canada) re-established its exploration program at its **Myra Falls** underground base and precious metals mine on Vancouver Island. For 2004, significant drilling and exploration drifting towards the western portion of the property has been proposed. Earlier in the year, Breakwater Resources entered into a due diligence agreement to acquire the mine. In early 2004, **Teck Cominco** purchased **BHP Billiton's** 33.6% interest in the **Highland Valley Copper** copper-molybdenum mine; it now owns 97.5% of the mine.

The recent huge increase in the metallurgical coal price has accelerated exploration and development for coal in the province. Industrial minerals production and developments have become increasingly significant economic factors in the province, particularly the increased export of crushed stone and natural aggregate to urban centers along the west coast.

Imperial Metals has three drills churning on its **Mount Polley** property, testing Northeast zone and deep mineralization below the Springer zone and the Bell and Cariboo pits. Results to date are very encouraging; the mine may re-open in 2005. In 2003, **bcMetals** gained majority ownership of the **Red Chris** alkalic porphyry copper-molybdenum property; it completed a \$3.6M infill exploration drilling program. At a 0.5% Cu cutoff grade, measured, indicated, and inferred resources stood at 11.2 Mt grading 0.852% Cu and 0.766 g/t Au, 37.5 Mt grading 0.686% Cu and 0.572 g/t Au, and 29.2 Mt grading 0.614% Cu and 0.499 g/t Au, respectively. A feasibility study is planned. In August 2003, **SpectrumGold** (a subsidiary of NovaGold) signed an agreement with Rio Tinto and Anglo American to buy the huge **Galore Creek** alkalic porphyry property. SpectrumGold completed a modest drilling program and extracted four, 50-kg bulk samples for detailed metallurgical studies. At a cutoff grade of 0.5% CuEq for the Main and Southwest zones (2 of 12 zones), indicated resources are 285.9 Mt grading 0.73% Cu, 0.44 g/t Au and 5.7 g/t Ag, and inferred resources are 98.8 Mt grading 0.54% Cu, 0.37g/t Au and 4.8 g/t Ag. A major drilling campaign, on both

the Galore Creek and its adjoining Copper Canyon deposits, is scheduled for 2004, with a prefeasibility study in 2005. **DRC Resources** is conducting underground exploration and development on its **Afton** alkalic porphyry Cu-Au deposit, 10 km west of Kamloops. The Afton project has been proposed as a 9,000-tpd underground (block) panel-cave; the mineralized zone extends vertically at least 300 m below the previously mined open pit. The current decline will provide access for a 25,000-m underground definition drilling program, bulk sampling, and technical studies. A feasibility study is in progress. Surrounding the Afton mine, **Abacus Mining and Exploration** is conducting a large drilling program, focusing on the **Rainbow zone**.

In April 2004, **Taseko Mines** announced that it planned to re-open its **Gibraltar** porphyry copper-molybdenum mine, which has been on a stand by basis since 1998. The estimated in-pit resource is 189 Mt grading 0.31% Cu and 0.01% Mo, at a cutoff grade of 0.2% Cu. **Pacific Booker Minerals** completed its redrilling of its **Morrison** porphyry copper-gold deposit, and purchased Noranda's interest in the project. Pacific Booker will examine the potential for mining two higher-grade zones on its adjoining **Hearne Hill** property. **Orphan Boy Resources** began underground drilling on its **Willa** porphyry Cu-Au deposit, which currently has resources estimated at 996,000 t grading 6.3 g/t Au, 0.8% Cu and 10.8 g/t Ag. Ore would be trucked to its existing Goldstream mill near Revelstoke. **Canadian Gold Hunter** is mobilizing for a major drilling program on its **Kiniskan** (GJ and Quash Creek) porphyry Cu-Au property, west of the Red Chris project.

In the Toadoggonne region, besides Northgate's activities at its Kemess projects and elsewhere, **Stealth Minerals** and **Finlay Minerals** have started large drilling programs on their **Pine** and **Pil North** porphyry and epithermal Cu-Au-Ag properties, respectively. **GWR Resources** continues drilling on the **Ann North (Lac La Hache)** alkalic porphyry Cu-Au deposit. Recent results included a 14.45-m interval grading 0.42% Cu and 4.22 g/t Au. **Eastfield Resources** is mobilizing for a large drilling program, as well as property-wide exploration, on its **Lorraine (Jayjay)** alkalic porphyry holdings. **Christopher James Gold** and **Craigmont Mines** have recently formed an alliance that will facilitate further exploration and development of their properties in the Merritt area, including the past-producing **Craigmont** mine, which milled about 34.8 Mt of ore grading 1.28% Cu. **Placer Dome** re-initiated its investigations of its **Mount Milligan** alkalic porphyry copper-gold deposits, with a view toward producing a revised feasibility study by late 2005 and a production decision by 2006. The current resource stands at 275.1 Mt grading 0.51 g/t Au and 0.24% Cu. **Roca Mines** has begun drilling on its

Trout Lake (Max) porphyry molybdenum property, southeast of Revelstoke. Resources estimated by previous operators were 49 Mt grading 0.19% MoS₂, at a 0.1% cutoff grade. Roca intends to initially target the higher-grade core of mineralization. During 2003, **Redfern Resources** completed a large underground drilling program on its **Tulsequah Chief** VMS property, south of Atlin. It discovered a new lens of mineralization, stratigraphically above and to the west of the Main deposit. A large underground drilling program is underway, aimed at doubling the current resource base. The company currently holds a Project Approval Certificate to develop the mine. Late in 2003, **Western Keltic Mines** announced its acquisition of the **Kutcho Creek** VMS property from Barrick Gold and Sumitomo. Western Keltic plans to evaluate the potential for underground mining the high-grade core of the Kutcho deposit and the Esso West deposit in 2004. **Stikine Gold** has begun drilling of a deep (2,450-m) drill hole on its **Sullivan Deeps** sedex target, located 4 km from the historic Sullivan mine, which produced some \$20 billion worth of metals from 1909 to 2001. Geophysical data indicate a compelling conductor at the Sullivan-Time depth. **Orphan Boy Resources** will be drilling numerous Besshi-massive sulphide deposits (e.g., Spire and Rain), as part of its **Goldstream** project in the Revelstoke area. **Roca Mines** is mobilizing for another large drilling program on its **Foremore** massive sulphide targets in the northwest. **International Wayside Gold Mines** is completing its 10,000-t underground bulk-sampling program on the Bonanza Ledge zone of its **Cariboo** gold quartz mesothermal gold project, located in the famous Barkerville area. The material is expected to grade 24 g/t Au. The company plans to extract an additional 70,000-t bulk sample in 2004 and continue its search for both auriferous vein and replacement gold zones along a favorable 20-km trend. **Almaden Minerals** plans another major drilling program on its **Elk (Siwash North)** mesothermal, gold-silver property, south of Kamloops. It hopes to produce a new resource calculation at the end of the program, and will examine the feasibility of re-opening the mine. **Bralorne-Pioneer Gold Mines** has initiated mine development at its historic **Bralorne** mesothermal gold mine, 125 km north of Vancouver. It had poured its first dore bar from its new 150-tpd mill. During 2004, the company plans to process a 6,000-t bulk sample from the Peter vein. Resources, outlined by previous operators, were estimated at 432,000 t grading 10.6 g/t Au. **Southern Rio Resources** completed a Phase 1 drilling program on its **3Ts (Tsacha, Tam, Taken)** epithermal gold-silver property in central BC. The program focused on resource definition drilling on the Ted vein and other parallel zones. In 2002, Southern Rio reported an inferred

resource of 470,000 t, grading 7.4 g/t Au and 65.22 g/t Ag, at a 0.4 g/t Au cut-off grade, for the Tommy vein on its Tsacha property. In the Greenwood camp, **Gold City Industries** will be following up with exploration and development programs on their **Lexington** and **Golden Crown** mesothermal gold-copper vein systems. The company proposes to construct a central milling facility to treat the ore. **Cangold**, under an option agreement with **Rimfire Minerals**, is planning a large drilling program on their **Thorn** high-sulphidation, epithermal property, southeast of Atlin. In 2003, they discovered the Oban Breccia zone, which they hope will develop into a significant bulk tonnage target.

In the Cassiar Mountains, **Cusac Gold Mines** plans to re-open its small **Table Mountain** mesothermal gold mine in 2004 and conduct further exploration on several targets. In the Toadoggone region, **Bishop Resources** plans exploration on its past-producing **Lawyers** and **AI (Bonanza)** epithermal properties. **Stealth Minerals (Pine)**, **Finlay Minerals (Pil North)**, and **Sable Resources (Shasta, Baker)** will be following up on several epithermal targets.

In the Okanagan region, **Ecstall Mining** completed a Phase 1 drilling program on its **Vault** epithermal gold-silver property, which displays many similarities to **Kinross Gold's** new gold discoveries at **Emanuel Creek** in the northern Republic camp in northeastern Washington State. Ecstall is also preparing its adjacent **Dusty Mac** property for drilling. Near Atlin, **Muskox Minerals** completed a Phase 1 drilling program on its **Yellow Jacket** mesothermal gold property, wherein gold is associated with a listwanite zone along the Pine Creek fault. Several high-grade intersections were obtained (e.g., DDH YJ-04-07: 1.05 m grading 221.13 g/t Au).

Cross Lake Minerals has acquired the **QR** auriferous skarn mine from Kinross Gold. The fully equipped and permitted, 800-tpd mill has been on care and maintenance since 1998. Current resources are estimated at 900,000 t grading 3.1 g/t Au, most of which could be mined by open-pit methods. The company is continuing surface drilling to increase resources, especially for extensions to the Main zone. If successful, the mine could re-open in the next year.

Alpha Gold plans another large drilling program to test its auriferous skarn/manto and vein targets in the large porphyry-related system on its **Lustdust** property. Drilling in 2003 identified both significant vein and skarn-type mineralization, which could be brought into a resource status in 2004. In early 2004, **Columbia and Yukon Explorations** completed an airborne geophysical survey over its **Gold Canyon** auriferous skarn, northwest of Nelson. A small drill program was completed late in 2003 with encouraging results, with further drilling planned. In 2003, **Canadian Metals Exploration** completed a large drilling program on its **Turnagain** nickel (\pm copper, \pm PGE) property, east of Dease Lake. A late-season drill intersection (DDH-03-

18) of 25 m grading 1.0% Ni was reported. In April, the company reported indicated resources of 43.3 Mt grading 0.32% Ni for the Horsetrail and 5.0 Mt grading 0.55% Ni for the Cub zones; both zones are within an 8- \diamond 3.5-m ultramafic complex. Individual lenses within the mineralized zones vary in thickness from 10 to over 100 m and have been traced on surface over 500 m.

YUKON

Exploration expenditures in 2003 were estimated at \$12.3M, a significant increase is forecast for 2004. In the Finlayson Lake camp, **Expatriate Resources** continues exploration of its **Wolverine** massive sul.de project, which hosts a resource of 6,237,000 t grading 12.66% Zn, 1.33% Cu, 1.55% Pb, 371 g/t Ag and 1.76 g/t Au. In 2003, it acquired the nearby **Logan** zinc deposit. The company is examining the feasibility of jointly developing the two deposits as underground and open-pit operations, respectively. Also in the Finlayson Lake area, **True North Gems** continued exploration of its **Regal Ridge** emerald prospect, reporting that a manufacturing test has produced commercial gemstone products from emerald-bearing materials collected during a bulk sampling program last season. **StrataGold** commenced a drilling program on its **Lynx** intrusion-related, bulk tonnage target, 47 km north of Mayo. Sheeted vein mineralization is associated with the Lynx Creek intrusion as well as quartzite and phyllite. **Tagish Lake Gold** has received a preliminary feasibility report on its **Skukum Creek** epithermal gold-silver property, south of Whitehorse. Part of the study included the rehabilitation of the existing mill and upgrading it to a capacity of 300,000 tpa.

EVENTS AROUND THE CORDILLERA:

Northwest Community College Field School
Monday, September 13, 2004 to Friday, September 17, 2004

Location: Smithers, B.C.

Description: An Introduction to Metal Leaching and Acid Rock Drainage is the topic of focus for this years field school. For more information please contact Dan Weaver phone: 250-847-4461 local 5843 e-mail: dweaver@nwcc.bc.ca or check out the website: <http://www.nwcc.bc.ca>

CIM Luncheons begin:

Thursday, September 30, 2004

Location: Hyatt Regency, Vancouver, B.C.

Description: The Fall Luncheon Series begins with talks on Pogo, Bralorne, Gibraltar and more. For ticket reservations please contact Gerry Stafford at staffo@telus.net. Tickets can be purchased at the

door: \$35(member), \$50(non-member) and \$12(student), cash or cheque please

Gem Conference 2004

Friday, October 22, 2004 to Sunday, October 24, 2004

Location: Terminal City Club, Vancouver, B.C.

Description: This years themes are Seasons Over Time: Historical Memories, Unearthing Our Era and Passage to the Future. For more information on this conference, which is presented by the Canadian Gemological Association, please visit the site below. <http://www.gemconference2004.com>

Yellowknife Geoscience Forum

Tuesday, November 16, 2004 to Thursday, November 18, 2004

Location: Yellowknife, NWT

Description: For more information please contact Cheryl Worms, nwtmines@ssimicro.com, phone: 867-873-5281 or go to <http://www.miningnorth.com>



Sunday, November 21, 2004 to Wednesday, November 24, 2004

Location: Whitehorse, NWT

Description: For more information please contact Joanne Hainer, info@ycmines.ca, phone: 867-667-2090 or go to: <http://www.ycmines.ca>

Northwest Mining Association conference

Monday, December 06, 2004 to Friday, December 10, 2004

Location: Red Lion Hotel at the Park, Spokane, Washington

Description: For more information please contact Pat Heywood, e-mail: pheywood@nwma.org, phone: 509-624-1158. To view information about the convention in PDF visit: www.nwma.org/pdf/04broch2.pdf or go to: <http://www.nwma.org/convention.asp>



Monday, January 24, 2005 to Thursday, January 27, 2005

Description: 2005 conference

Cordilleran Section - GAC: Financial Statement for the Year ending December 31, 2003 with 2002 comparative figures.

Balance Sheet:	Dec. 31, 2003	Dec. 31, 2002
Assets:		
Cash	18,708	28,327
Term deposits	12,262	12,167
	<u>30,969</u>	<u>40,494</u>
GST receivable	346	-
Total assets	<u>31,316</u>	<u>40,494</u>

Liabilities and Equity:		
GST Payable	-	185
Equity	31,316	40,309
Total liabilities and equity	<u>31,316</u>	<u>40,494</u>

Income Statement:	For the 12 months ended Dec. 31, 2003	For the year ended Dec. 31, 2002
Income:		
Membership dues	361	266
Transect- Canadian Cordillera	4,631	3,634
Geological Field Trip	2,268	-
Interest income	95	115
	<u>7,354</u>	<u>4,015</u>

Expenses:		
Geology Tours of Vancouver	7,214	-
Transect Guide Book	3,089	-
Geological Field Trip	4,131	-
SFU Field Trip	500	-
Western Inter-University	500	-
Short course	-	555
Office and supplies	552	413
Bank charges	362	175
	<u>16,348</u>	<u>1,143</u>

Net Income (loss) (8,994) 2,872

Opening Equity 40,309 37,437

Closing Equity 31,316 40,309



Gem Stone News - Ted Danner

A large “rock shop” located on Broadway near McDonald was recently selling small faceted emeralds. When the sales person was asked where they came from they replied: British Columbia! Do they know something we don’t?

The “Champaign jade” being sold in the form of carvings at many places in Vancouver is not jade at all but a mixture of quartz and the mineral sillimanite. It is white with pale brown splotches. This material was first found on the Fraser River bars by the early placer miners and referred to as “muton fat jade.” This name was used when it was first sold but now is going by the name “champaign jade.”



The New Courtyard at the Pacific Museum of the Earth

