

CORDILLERAN SECTION



GEOLOGICAL ASSOCIATION OF CANADA

Geological Association of Canada
Cordilleran Section

web: <http://www.sfu.ca/earth-sciences/gac/>
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NEWSLETTER – June, 2002

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Check this out!

We need your help!

Join Us!

President's Note

The last few months slid by in a frenzy of activity for the Section. Brett Gilley has revamped the Section's website. We have also been working on expanding the Section's email list to include a broader range of geoscientists in the local community. The purpose of this is to be able to inform these people of the Section's activities.

Looking ahead there are a number of issues that the Section will be dealing with.

Firstly, there will be some changes in council make-up as long-time councilors Jane Howe and Mark Mauthner leave the local scene to pursue career opportunities in far away places.

Jane, who has been the Section's Treasurer for the last 4-5 years, is headed for Yellowknife. Mark, who has been taking care of the Section's publication sales, is going in the opposite direction: to Texas. Both Jane and Mark's contributions over the years are very much appreciated. Heather Sparks and Fionnuala Devine have moved on to pursue studies in Australia and Eastern Canada, respectively. Heather and Fionnuala's help on council will be missed.

Secondly, with a number of new opportunities to seize, we are going to need your help to make the Section an effective local geoscience organization! This is especially important as Vancouver is hosting the upcoming GAC-MAC-SEG conference here next year, but more on this later in the newsletter.

Also in this newsletter are unaudited financial statements - Balance Sheet and Cash Flow Report - for the Cordilleran Section to December 31, 2001 - there hasn't been much change since. As can be seen from these we remain in positive financial territory with cash reserves of \$37,597. This represents an increase of approximately \$3,500 from last year. The increase is mainly due to revenue generated from publication sales (\$4,122), specifically Cordilleran Section publications (Rocky Mountain Transect Guide Book).

- Carl Verley

Thanks to GSC Pacific Division (Vancouver) for mailing assistance

GAC-MAC-SEG Vancouver 2003

The joint annual general meeting of GAC and MAC will be held in Vancouver next year (May 25-28). This will be a large and important meeting as the SEG will be included. There will be many informative symposia and special sessions of particular interest to the local community. The theme for the meeting is "On the Edge: Earth Science at North America's Western Margin". The first flyer announcing the various symposia, session, workshops, short course and field trips has just been released. But check the conference website for the latest details: www.Vancouver2003.com The Section is involved with the local organizing committee for the conference, handling publications including the announcement flyer, first and final circulars, program guides, abstract volume/CD and field trip guides.

GAC MEDAL NOMINATIONS



- *Jim Monger receives the 2002 GAC Logan Medal!* The Logan Medal is the highest award bestowed by the Geological Association of Canada. It is awarded to an individual who has made outstanding contributions to the geoscientific knowledge of Canada. As mentioned in the last Newsletter, Peter Mustard, our past president,

spear-headed Jim Monger's nomination. Congratulations, Jim! The full citation for the award is as follows:

James Monger is a world leader in the application of plate tectonics to the evolution of mountain belts. His careful and perceptive field studies and detailed geological mapping of upper Paleozoic and lower Mesozoic volcanic and sedimentary sequences have demonstrated that the Canadian Cordillera is a collage of displaced terranes that have been accreted to the western margin of North America. His extensive and detailed knowledge of Cordilleran geology led to several collaborative pioneering syntheses: the first plate tectonic interpretations of the evolution of the Canadian Cordillera, its first metamorphic map, a classic, award-winning paper on suspect terranes that evolved into the first terrane map of the Cordillera, a proposal for the collisional origin for the two major plutonic belts, and the first trans-Cordilleran structure section that integrated geological, geophysical and geochemical data. This last led to his leadership of the Global Geoscience Transects Project and an important role in the Canadian LITHOPROBE Project. Although officially retired, Jim continues in his role as a leader in Cordilleran research. He is actively involved in teaching courses at several universities, has recently with Ray Price completed a major trans-Cordilleran guidebook, and has two other books on Cordilleran geology in the works in addition to his unabated production of scientific articles on the Cordilleran. Finally he continues to unstintingly provide mentorship to students and young researchers, to lead field trips and actively participate at scientific meetings (usually at his own expense) and to generously assist other Cordilleran researchers whenever possible.

In sum, much of our current understanding of the evolution of the western Canadian Cordillera is due to Jim Monger's careful studies, imaginative insights, and capacity for synthesis. His outstanding accomplishments, leadership, and stature make him a truly worthy recipient of the Logan Medal.

Stuart Sutherland organized Mary Lou Bevier's nomination for the E. Ward Neale award. The E. R. Ward Neale Medal of the Geological Association of Canada is awarded to an individual who has made, or is making, significant contributions to the public awareness of geoscience. The award recognizes outstanding efforts to communicate and explain geoscience to the public through one or more of the following vehicles: public lectures, print or electronic media articles, school visits, elementary and secondary school educational materials, field trips, science fairs, and other public communications. As you may be aware, apart from her regular teaching activities at UBC, Mary Lou has been very active in outreach work including volunteering with Scientists and Innovators in Schools teaching geoscience to First Nations, and lecturing K-12 teachers about geoscience through Science World's Loon Lake Science program. Mary Lou also acts as a resource person for public awareness of geoscience issues. National has informed us that this nomination will be kept on file for 2 more years and brought up at the next meeting of the awards committee. Letters of support for this nomination would be appreciated and should be forwarded either to:

Dr. Stuart Sutherland
Department of Earth and Ocean Sciences
The University of British Columbia
6339 Stores Road, Vancouver, BC, V6T 1Z4
Fax: 604-822-6088
Email: ssutherland@eos.ubc.ca

Or:

Scott Swinden,
Nova Scotia Dept. of Natural Resources,
P.O. Box 698,
Halifax, NS B3J 2T9;
Tel: (902) 424-7943; FAX: (902) 424-7735
Email: hsswinde@gov.ns.ca

PUBLICATIONS

The Section is becoming involved as co-publishers or sponsors of several new publications. As mentioned, we will be publishers of the field trip guides for the GAC-MAC-SEG conference in Vancouver in 2003. These books will provide some new and refreshing insights into Cordilleran geology and generally sell out fast. They will be available for sale at the conference and after. The Section is also looking at co-publishing a new Vancouver area geology book by J.J. Clague and Bob Turner. This publication evolved out of the Geoscape poster project. It will focus more on environmental and natural hazard geoscience issues in the Vancouver and lower mainland area. The publication should be ready by mid 2003.

Last but by no means least is a proposal to publish - along with GAC National - *Geology of the Canadian Cordillera*. Jim Monger, Ray Price and Peter Mustard are co-authoring this volume. At last a volume that will bring together a lot of the mapping and research that has been going on in the Cordillera over the last several decades. This volume - which should be out sometime in 2004 - promises to be worth waiting for!

Brown Bag Discussion Group

The new year started out well with Keith Paterson leading off the first brown bag discussion group with his presentation on the Nanisivik lead-zinc camp and the use of thermal maturation of illite micas to indicate proximity to mineralized zones - a promising technique that may develop into a new tool for focusing detailed exploration in carbonate-hosted lead-zinc camps. Chris Sampson lead off the next talk with an excellent review of the Booker Pacific Mineral's Morrison Cu-Au porphyry deposit in the Babine area of B.C. Yes! There is exploration going on in B.C.! And this project, according to Chris, could well be B.C.'s next producer! To wrap up the brown Bag we were fortunate to be able to

co-sponsor a presentation with the GSC. Steve Piercey of MDRU fame, now at MERC and Laurentian University, gave a great over view of the use and application of lithochemisrty in the exploration of VMS deposits. Sounds like the makings of a great workshop - actually this is put on as a short course at Laurentian (check it out here: <http://earthsciences.laurentian.ca/faculty/piercey.html>). But Steve did mention, if anyone is interested, he could always do something out here - any takers? - let us know!

H.S.Robinson Lecture

In March we were fortunate to have Dr Larry Hulbert of the GSC out from Ottawa as MDD's Howard Street Robinson lecturer for 2002. Larry gave an excellent presentation of the potential and opportunities for finding PGM deposits in a number of areas and a variety of settings in Canada. Larry mentioned that if all goes well his presentation will be available soon on a CD - we'll keep you posted on that.

SEG International Exchange Lecturer

In April, thanks to Dick Tosdal at MDRU, the Section along with MDRU and GSC sponsored the 2002 SEG International Exchange speaker: Dr. Steve Walters of GeoDiscovery Group, Queensland, Australia. Steve gave a great talk on Broken Hill-type deposits with particular reference to the discovery of the Canington deposit - which by the way was a buried deposit. Steve pointed out a number of unusual features of the Broken Hill deposit class. Firstly, skarns in high-grade (granulite to amphibolite fcies) metamorphic terranes should be given close scrutiny. The deposits are iron deficient as noted by the lack of pyrite in most - but some contain pyrrhotite. The deposits contain unusual metal-rich silicate assemblages - minerals such as gahnite and Pb-rich diopside. Indicating that - despite the sulphide mineralization - sulphur was deficient in the overall system. The silicate minerals

can be used to focus regional exploration programs into prospective areas - if you know the geochemical signature of the minerals. This heavy mineral approach is analogous to that used in exploration for kimberlites.

BCGS Under Siege!

We strongly urge all of you to continue the pressure on the Premier, the Minister of Energy and Mines and your local MLAs regarding the proposed cutbacks for the BCGS. These are viewed as shortsighted political moves that will ultimately prove more costly to the Province when it has to regain the ground lost to this initiative. Please write and make your views known.

HONORABLE GORDON CAMPBELL
Premier of British Columbia
PO Box 9041, Stn Prov Govt
Parliament Buildings
Victoria, B.C. V8W 9E2

and

HONORABLE RICHARD NEUFELD
Minister of Energy and Mines
PO Box 9060, Stn Prov Govt
Parliament Buildings
Victoria, B.C. V8W 9E2

SUMMER STUDENTS 2002

Are you intending to hire students to work as junior or senior geological assistants for the upcoming summer? Whether in mineral exploration, environmental geoscience or any other "earth science" discipline, in the office or in the field, there are competent, intelligent and keen undergraduate students who are seeking experience in your area of interest. Please send your ads to all of the following departments so that they can be posted for the students to see.

Earth Sciences - Simon Fraser University	
8888 University Drive	
Burnaby, B.C.	phone: (604) 291-5387
V5A 1S6	fax: (604) 291-4198
Earth and Ocean Sciences - University of Victoria	
P.O. Box 3055	
Victoria, B.C.	phone (250) 721-6120
V8W 3P6	fax (250) 721-2000
Earth & Ocean Sciences - University of British Columbia	
6339 Stores Road	
Vancouver, B.C.	phone (604) 822-2449
V6T 1Z4	fax (604) 822-6088

CHECK THIS OUT!

Geomap Vancouver:

<http://sts.gsc.nrcan.gc.ca/page1/urban/geomap/>

WE NEED YOUR HELP!

The GAC-Cordilleran Section Executive Council is seeking nominations for the positions of Secretary, Treasurer, Publications Sales Manager and Professional Development Coordinator. Duties and responsibilities of the positions are as follows:

Secretary

- Prepare, disseminate and maintain agendas and minutes of Council meetings.

Treasurer

- Must prepare a balance sheet and a cash flow statement reflecting the Section's financial position as of the end of each year. Statements should be prepared in time to submit along with the Section's winter report to GAC - National on January 15.

- Checks correspondence and mail from the Section's mailbox.

- Other responsibilities include paying bills; writing cheques; making bank deposits; forwarding membership information to the appropriate councillor.

Publications Sales Manager

- Fills book orders and maintains the Section's book inventory.

Professional Development Coordinator

- To interface and/or liaise with other professional organizations (such as GAC National, MDD, APEG, MEG, BCYCM, MDRU, CIM) which my wish to co-sponsor Professional development events

- Map out what the membership requires with respect to Professional Development and have events/activities sanctioned by the appropriate professional bodies.

- The council needs each of these positions filled before the Fall. If you are aware of people capable of filling these roles please do not hesitate to forward this message or nominate them yourself. Nominations will be open July 1st.

These positions provide an excellent opportunity for those want to connect with, become involved in and make a contribution to the local geoscience community.

Other outside events of interest

Watch this spot for updates in the Fall.



JOINT ANNUAL MEETING

Geological Association of Canada
Mineralogical Association of Canada
Society of Economic Geologists

Sheraton Wall Centre,
Vancouver, B.C.
May 25 - 28, 2003

On the Edge: Earth Science at North America's Western Margin

The extensive technical program, incorporating symposia, special and general sessions, field trips, a workshop and short courses, will cover all major aspects of the earth sciences and emphasize the construction and evolution of the Canadian Cordillera and its geological resources.

To find out more - contact us at:

Venue West Conference Services Ltd.
645 - 375 Water Street
Vancouver, B.C. Canada V6B 5C6
Tele: 604-681-5226
Fax: 604-681-2503

E-mail: Vancouver2003@nrcan.gc.ca

Website: www.Vancouver2003.com

CORDILLERAN SECTION - GAC

Balance Sheet

As of 12/31/01 (in Canadian Dollars)

Acct	Balance
ASSETS	
Cash and Bank Accounts	
CIBC Checking	24,966.99
Vancity Savings	565.69
Vancity Shares	101.00
Vancity Term #1	5,982.01
Vancity Term #2	<u>5,982.01</u>
TOTAL Cash and Bank Accounts	37,597.70
Other Assets	
Accounts Receivable (1)	<u>280.64</u>
TOTAL Other Assets	280.64
TOTAL ASSETS	<u>37,878.34</u>
LIABILITIES & EQUITY	
LIABILITIES	
Other Liabilities	
Accounts Payable (2)	96.00
GST Owed (3)	<u>231.36</u>
TOTAL Other Liabilities	327.36
TOTAL LIABILITIES	327.36
EQUITY	<u>37,550.98</u>
TOTAL LIABILITIES & EQUITY	<u>37,878.34</u>

Notes from Treasurer:

(1) Accounts Receivable: \$280.64 consists of several book orders that were delivered before year-end, but not paid at year-end: Barber \$45.80; Malo \$45.80; Pacific Mineral Museum \$74.90; BC Museum of Mining \$114.14

(2) Accounts Payable: \$96.00 owed to GAC National for their 75% portion of 2001 National book sales by Cordilleran Section.

(3) GST Owed: Balance of GST to Revenue Canada

Cash Flow Report
1/1/01 Through 12/31/01

Category Description

INFLOWS

Interst Income		389.46
2001 Membership Dues		342.00
Publication Income:		
Cord. Sales	3,929.66	
National Sales	128.00	
Shipping	<u>64.45</u>	
TOTAL Publication Income		4,122.11
FROM GST Owed		<u>282.44</u>

TOTAL INFLOWS **5,136.01**

OUTFLOWS

2000 GST Paid		24.11
Annual General Meeting Expense		607.39
Bank Expenses:		
Bank Service Chg	57.60	
VISA Expense	<u>39.07</u>	
TOTAL Bank Expenses		96.67
Office Expenses:		
Post Box Exp.	106.70	
Supplies	<u>14.71</u>	
TOTAL Office Expenses		121.41
Publication Expenses:		
National Paymt for 2000 sales	526.50	
Shipping Expenses	<u>105.29</u>	
TOTAL Publication Expenses		631.79
Short Course Expenses:		
Sponsor MapPlace Seminar	<u>93.00</u>	
TOTAL Short Course Expenses		93.00
TO GST Owed		<u>51.08</u>

TOTAL OUTFLOWS **1,625.45**

OVERALL TOTAL **3,510.56**

GAC CORDILLERAN SECTION 2001-2002 EXECUTIVE

	Name	Affiliation	Phone	Fax	Email
President	Carl Verley	Amerlin Exploration Services Ltd.	604.821.1088	604.821.1088	cverley@telus.net
Past-President	Peter Mustard	SFU Earth Sciences	604.291.5389	604.291.4198	pmustard@sfu.ca
Vice-President	Brett Gilley	SFU Earth Sciences	604.268.6626	604.291.4198	gilley@sfu.ca
Secretary	Vacant				
Treasurer	Jane Howe	Consulting Geologist	604.951.1930	604.951.1931	jmhowe@uniserve.com
Publications Sales	Mark Mauthner	Pacific Mineral Museum	604.689.8700	604.689.8021	markm@pacificmineralmuseum.org
Membership	Keith Patterson	Patterson Exploration GEoscience	604.224.4342		kpatterson@telus.net
Councillors	Ted Danner	UBC Earth & Ocean Sciences	604.822.6892	604.822.6088	
	Maggie Dittrick	BCGS	604.660.2693	604.660.2708	Maggie.Dittrick@gems2.gov.bc.ca
	Laura Laurenzi	SFU Earth Sciences			Laura_Laurenzi@sfu.ca
	James Ryan	Geological Survey of Canada	604.666-7756	604.666.1124	jryan@NRCan.gc.ca
	Stuart Sutherland	UBC Earth & Ocean Sciences	604.822.0176	604.822.6088	ssutherland@eos.ubc.ca

JOIN US!

Membership in the Geological Association of Canada Cordilleran Section is not automatic when you renew your GAC national membership every year. Many of our members chose to join our section without being members of the national GAC. If you haven't been a

member for several years, why not rejoin (and update your address information if it has changed). Here are just some of the things the Cordilleran Section has been involved in recently:



- **Short Courses:** Over the years we have put on a number of short courses/work shops. In the recent past topics have included: **Cordilleran Tectonics and Mineral Deposit, Yukon-Tanana and Nechako Geology, Introductory Geospanish, Internet for Geoscientists, Mining the Internet and Quality Control Strategies In The Estimation And Classification Of Mineral Inventories**
- **Publications:** We sell GAC publications relevant to Cordilleran Members at local conferences. We also have produced a few of our own publications, including the popular Vancouver Geology. Our latest publications are two sets of Field Trip Guidebooks produced for the April 2000 GSA Cordilleran Section meeting held here in Vancouver (see information in this newsletter).
- **Talks:** We have informal lunch time Brown Bag Discussion series once a month or so from September to April. In addition we commonly host or co-host the local talks of lecture tours by GAC medals or other speakers.
- **National GAC liason:** We provide a local group that advises and works with the national Geological Association of Canada on issues of interest to the entire geoscience community. Recently we have been involved in issues such as Field Trip Safety and national registration of geoscientists and have also nominated people for GAC medals.

2002 MEMBERSHIP FORM

CORDILLERAN SECTION



GEOLOGICAL ASSOCIATION OF CANADA

Cordilleran Section - Geological Association of Canada

Mail completed form to:

P.O. Box 398, Station A Bentall Centre, Vancouver B.C., Canada V6C 2N2

Renewal *New member*

Name: _____ Company/Affiliation: _____

Street: _____

City: _____

Province/State: _____ Postal/Zip: _____

E-Mail: _____

Phone: _____

Office: (____) _____ Home: (____) _____ FAX: (____) _____

<input type="checkbox"/> Member without Web Access (\$15.00)	<input type="checkbox"/> Member with Web access* (\$12.00)	<input type="checkbox"/> Student/Senior: (\$ 7.00)	\$ _____
		Please Include 7% GST	\$ _____
		TOTAL ENCLOSED	\$ _____

* Denotes members who choose to access Section newsletters through our web page.
Current e-mail address must be provided.

Cheque payable to: Cordilleran Section - GAC

or

VISA # _____ Expiry Date: _____ Signature: _____

Receipts issued only upon request. GST #R108078569