

Dear Member or Former Member:

Our mailing database contains nearly 600 addresses built up over the years. This year we have decided to send a copy of our January newsletter to all members or former members.

CORDILLERAN SECTION



GEOLOGICAL ASSOCIATION OF CANADA

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:** We usually put on at least one or two short courses every winter. In the recent past topics have included: **Cordilleran Tectonics and Mineral Deposits** (Pathways '98); Workshops on **Yukon-Tanana** and **Nechako Geology**, **Introductory Geospanish**, **Internet for Geoscientists**, **Mining the Internet**. We are sponsoring two short courses this March: **Advanced Geospanish** and **Quality Control Strategies In The Estimation And Classification Of Mineral Inventories** (see our newsletter for details).
- **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**. In the spring we will be publishing and selling the **Field Trip Guidebook** produced for the April 2000 GSA Cordilleran Section meeting here in Vancouver.
- **Talks:** We put on our 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. We have also nominated people for GAC medals (e.g. see this newsletter).

Please Renew or Rejoin - We miss you !!

CORDILLERAN SECTION



GEOLOGICAL ASSOCIATION OF CANADA

2000 MEMBERSHIP FORM

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

CORDILLERAN SECTION



GEOLOGICAL ASSOCIATION OF CANADA

Geological Association of Canada

Cordilleran Section

web: <http://www.sfu.ca/earth-sciences/gac/>

email: gac@nereus.geology.ubc.ca

NEWSLETTER – January, 2000

PRESIDENT'S NOTE

Welcome to the "new millennium"! - or not. As one of those annoying people who insist the next millennium really starts Jan. 01, 2001, I of course take every opportunity to rail (futilely I know) against the tide of mathematical ignorance.

I'm sure most of you join me in that inevitable year end activity: writing cheques to renew memberships in the societies and professional organizations to which we belong! Enclosed you will find our membership renewal form, and I urge you to bite-the-bullet and send it in. For our ridiculously small dues, you get much more than just this occasional newsletter. We continue to organize talks, short course and symposia; provide financial assistance to student groups and others for educational purposes, provide an outlet for publication sales of our GAC national publications and our own publications. Finally, we serve as a regional conduit for GAC National issues and events, such as lecture tours by prominent speakers and providing a Cordilleran perspective on issues raised by GAC National.

Our ability to exist with such a low membership fee reflects a strong tradition of volunteer support to our group, including many hours selfishly contributed by our councillors, our speakers and the many people who have organized and run workshops and other events over the years. As well, several companies and government organizations provide us with help. A standout is the G.S.C. Vancouver office, which provides us use of their boardroom for our council meeting and helps with mailing our newsletters to you.

We have many events planned for the new year, as listed within this newsletter. We are always looking for new ideas for events and feedback. Please feel free to contact any of the executive on this or any other matters you think relevant to our organization. Standouts for the Spring are the first attempt at **an Advanced GeoSpanish Short Course**, a two day course: **Quality Control Strategies in the Estimation and Classification of Mineral Inventories**. and a **Business Meeting and Reception** for our members as part of the GSA Cordilleran Section meeting at the end of April. Details on all these events are provided in this newsletter.

A final new item is our nomination for the GAC Logan Medal. The Logan Medal is the highest award bestowed by the Geological Association of Canada and is awarded to an individual who has made outstanding contributions to the geosciences in Canada. The Cordilleran has nominated Dr. Hu Gabrielse for this award, in recognition of his 50+ years of geoscience accomplishments, exhibited by his maps, sections and related explanatory texts, by his numerous remarkable syntheses, and by his elevated stature, leadership and mentorship role in the North American geoscience community.

- Peter Mustard



The Executive of the GAC Cordilleran Section extends to fellow members our best wishes for the New Year.

ADVANCED GEOSPANISH - TECHNICAL SPANISH FOR GEOSCIENTISTS II

A follow up to one of our most popular annual events. Rodolfo Baca Chavez of Rescan Environmental Services Ltd. will lead two evening sessions presenting technical and geological terms in Spanish as used in South America. This course is for geoscientists who already have at least an intermediate level of Spanish ability (a fair to good working or conversational level - you don't have to be fluent). The course will be conducted entirely in Spanish (but clear, well-enunciated Spanish!!) and will concentrate on technical vocabulary related to geology, economics, engineering, travelling, and business practises in Latin America.

Note: it is not necessary to have completed the Introduction to Technical Spanish course, as long as you are already comfortable speaking Spanish.

Date: April 4, 5, 2000

Time: 7:30-9:30 pm

Location: SFU Harbour Centre Campus, 515 West Hastings Street; Room 2050

To Register: complete and mail the registration page on the back of this newsletter, along with payment.

SUMMER STUDENTS FOR 2000

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



GAC/MAC Annual Meeting

The Millennium Geoscience Summit GeoCanada 2000

Calgary, AB, May 29-June 1, 2000

For details on abstract submittal and registration, be sure to visit the official [GeoCanada2000](http://www.geocanada2000.com/) web site.

<http://www.geocanada2000.com/>

GAC CORDILLERAN SECTION 1999-2000 EXECUTIVE

	Name	Affiliation	Phone	Fax	Email
President	Peter Mustard	SFU Earth Sciences	291-5389	291-4198	pmustard@sfu.ca
Secretary	Carl Verley	Amerlin Exploration Services Ltd.	821-1088	821-1088	cverley@bc.sympatico.ca
Treasurer	Jane Howe	Consulting Geologist	951-3052	951-3052	jmhowe@uniserve.com
Publications	Mark Mauthner	Pacific Mineral Museum	689-8700;	689-8021.	mauthner@unixg.ubc.ca
Webmaster	Chris Stanley	Geological Survey of Canada	666-6034	666-1124	cstanley@gsc.nrcan.gc.ca
Membership	Keith Patterson	UBC Earth & Ocean Sciences	739-8606		kpatterson@eos.ubc.ca
Councillors	Ted Danner	UBC Earth & Ocean Sciences	822-6892 224-4108	822-6088	
	Doug Reddy	Snowden Resources	683-7645	683-7929	dreddy@snowden-ca.com
	Brett Gilley	B.C.G.S.	298-1555		brett_gilley@hotmail.com
	Wes Hodson	UBC Earth & Ocean Sciences	801-6346		wahodson@interchange.ubc.ca
	Kevin Treptau	SFU Earth Sciences	291-3187	291-2198	ktreptaa@sfu.ca

BROWN BAG LUNCHES

Brown Bag Discussion Series

Meets monthly from 12:00 to about 1:30 pm at the **Geological Survey of Canada Boardroom**, located on the 15th floor, 605 Robson Street. Bring your lunch if you like.

11 January, 12 noon: cancelled

8 February, 12 noon

Dick Tosdal MDRU – Topic TBA

14 March, 12 noon

Bob Anderson, GSC – *Hot Rocks and Warm Beer: Paleozoic Caldera Complexes, western Great Britain*

10 April, 12 noon

Steve Rowins, UBC Earth and Ocean Sciences – *Effective Exploration Strategies For Porphyry Copper-Gold Deposits*



GSA Cordilleran Section 2000

Annual Meeting

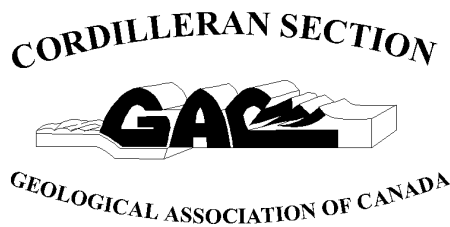
April 27-29th, 2000

**Robson Square Conference Centre
Vancouver, British Columbia, Canada**

see our website for details: www.eos.ubc.ca/cordgsa2000/

This is the largest and longest running annual meeting that is devoted to all aspects of Cordilleran geoscience for the entire Cordilleran community. Join us in our 98th meeting, which includes short courses, field trips and technical sessions. The abstract deadline is January 10th, early registration deadline is March 17. Web abstract submittal and a downloadable registration form are available from our website.

Thursday, April 27, 2000 (*as part of the GSA Cordilleran Section Meeting*)



GAC - Cordilleran Section Members Reception and Business Meeting

**GSC Sales Office, 101-605 Robson St., Vancouver
(street level); 5 pm – 6:30 pm**

Join the GAC Cordilleran Section executive and our fellow members for a wine/beer and cheese reception and a *short* business meeting (our first in many years). We need to update our constitution and also will welcome any discussion of our future role in the Cordilleran community. But mostly this will be a great opportunity to meet your executive and fellow members. This is a formal ticketed event as part of the GSA Cordilleran Meeting. You can register for it when you register for that meeting, but you don't have to register for the GSA meeting to attend this event; just cut out or photocopy, then return the registration form below with payment (we are asking a token \$4.50 payment to help us plan for catering this event).

Registration Form - GAC Cordilleran Section Business Meeting, April 27, 1999

Name: _____

Company: _____

Address: _____

City: _____ Province: _____ Postal Code: _____

Telephone: _____ Fax: _____ Email: _____

Payment Options: All members: \$4.50 (includes abundant refreshments and munchies!)

By Cheque: Make cheque payable to: G.A.C. Cordilleran Section

By VISA: GST Registration R108078569

Visa #: _____ Expiry Date _____

Signature: _____

(must be signed to be valid)

Mail This Form to:

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

Other outside events of interest

- January 5, 2000: MEG Talk: To Be Announced.
Hyatt Regency (Plaza Room) 11:30 am Ticket Pickup. Reservations required.
- January 19, 2000: MEG Talk: Joe Reutz, Teck Corp.: Nukay, Mexico.
Four Seasons Hotel.
- January 25-28, 2000: Cordilleran Roundup 2000: Vancouver: Gateway to Discoveries.
B.C. & Yukon Chamber of Mines,
Hotel Vancouver and Hyatt Regency. Contact BCYCM at Tel.(604)681-8328.
- January 30-31, 2000: Vancouver Resource & Energy Investment Conference.
Hotel Vancouver. Contact: Cambridge House International at Tel. (604)687-4151.
- February 2, 2000: MEG Talk: Speaker: TBA,
Inca Pacific Resources Inc.: San Rafael/San Domingo, Peru.
Four Seasons Hotel.
- February 16, 2000: MEG Talk: Speaker: TBA, Manhattan Minerals Corp., Tambo Grande, Peru
Four Seasons Hotel.
- March 5-8, 2000: The Prospectors and Developers Association of Canada: Mining Millenium 2000.
Metro Toronto Convention Centre and the Royal York Hotel.
Contact: Tel. (416)362-0101 or email info@pdac.ca
- March 15, 2000: MEG Talk: Speaker: TBA, Placer Dome Inc., TBA
Four Seasons Hotel.
- March 29, 2000: MEG Talk: John Dow, Newmont Mining Corp.: Batu Hijau, Indonesia
Four Seasons Hotel.
- March 31- April 2, 2000: BC Gem and Mineral Show: BC Riches.
Ag-Rec Building, CFV Fairgrounds, 32470 Haida Drive, Abbotsford, BC.
- April 27-29, 2000: GSA Cordilleran Section 2000 Annual Meeting: Vancouver, BC.
Robson Square Conference Centre
- May 29 - June 2, 2000: GEOCANADA 2000: The Millennium Geoscience Summit, Calgary Alberta



**CORDILLERAN
ROUNDUP 2000**
HOTEL VANCOUVER
& HYATT REGENCY
VANCOUVER, CANADA
JANUARY 25 - 28, 2000



For more information see the Roundup website at: <http://www.chamberofmines.bc.ca/rdup2000/>

GAC CORDILLERAN SECTION SHORT COURSE

QUALITY CONTROL STRATEGIES IN THE ESTIMATION AND CLASSIFICATION OF MINERAL INVENTORIES.

MARCH 16 & 17, 2000
9 am - 5 pm
SFU Harbour Centre Campus
room TBA

Presented by: **Alastair J. Sinclair**, Professor Emeritus, Geological Engineering, University of British Columbia

March 16:

Effective Data Collection and Analysis for Mineral Inventory Estimation

- Production and monitoring of high quality assays for resource estimation. Includes reference to: number of samples, sample supports, sample arrays, Gy's fundamental equation, quality control for the explorationist
- Review of estimation methods and their limitations. Includes discussion polygonal, inverse distance weighting, sectional and some geostatistical methods. Special reference to the problem of dealing with outliers in estimation.

March 17:

Classification and a Structured Approach to Quality Control in Mineral Inventory

- Classification of resources and reserves. Detailed discussion of criteria for classification and their practical application.
- Quality control at the various steps leading to resource estimation. Includes discussion of geological quality control, duplicate data, twinned holes, bulk samples, etc.

Demonstrations of the following computer programs will be included:

GYSAMPLE—a program that both solves Gy's equation and plots subsampling protocols for comparison with his safety lines.

ERRORZ—a program that calculates a Thompson-Howarth linear model of error in duplicate analyses.

P-RES—a program that does many things but most importantly, from the quality control point of view, determines a best fit linear model for duplicate data (i.e. reduced major axis analysis that incorporates variability in both variables).

PROBPLOT—a program that partitions mixtures of multiple populations. An important application is in the recognition and characterization of real, outlier subpopulations.

Registration: fill out the registration form on following page and send it in.

GAC CORDILLERAN SECTION SHORT COURSE

**QUALITY CONTROL STRATEGIES IN THE ESTIMATION
AND CLASSIFICATION OF MINERAL INVENTORIES.**

MARCH 16 & 17, 2000

9 am - 5 pm

**SFU Harbour Centre Campus
room TBA**

Presented by: **Alastair J. Sinclair**, Professor Emeritus,
Geological Engineering, University of British Columbia

Cost (including GST)

Member..... \$75.00 **Non-Member***: \$90.00

Member Student or Senior: \$40.00 **Non-Member Student*/Senior*:** . \$50.00

* includes membership in GAC Cordilleran Section

Price includes short course notes, instruction, participation, and more.

Registration Form

Name: _____

Company: _____

Address: _____

City: _____ Province: _____ Postal Code: _____

Telephone: _____ Fax: _____

Email: _____

Status: Member Non-member

Member Student or Senior Non-Member Student or Senior

Payment Amount: _____

Payment Options:

By Cheque: Make cheque payable to: G.A.C. Cordilleran Section

By VISA: GST Registration R108078569

Visa #: _____ Expiry Date _____ Signature: _____
(must be signed to be valid)

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

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GAC CORDILLERAN SECTION SHORT COURSE

**- ADVANCED GEO-SPANISH -
MORE TECHNICAL SPANISH FOR GEOSCIENTISTS**

SFU Harbour Centre, 515 West Hastings Street
Room 2050 (Eyre Boardroom)

March 11 and 12, 1999 - 7:30-9:30 pm

This course entails two evening sessions presenting an Introduction to Technical Spanish for Geoscientists, some "do's" and "don'ts" of speaking Spanish in Latin America; how to read geological maps and reports and understand technical terms; and other aspects of technical vocabulary related to geology, economics, engineering and travelling.

Presented by: *Rodolfo Baca Chavez*, Rescan Environmental Services Ltd.

Cost (including GST)

Member..... \$30.00 **Non-Member***: \$45.00

Member Student or Senior: \$20.00 **Non-Member Student*/Senior***: . \$27.00

* includes membership in GAC Cordilleran Section

Price includes a glossary of Spanish Geotechnical Terms, instruction, participation, and more. Limit - 24 participants

Registration Form

Name: _____

Company: _____

Address: _____

City: _____ Province: _____ Postal Code: _____

Telephone: _____ Fax: _____

Email: _____

Status: Member ___ Non-member ___

Member Student or Senior ___ Non-Member Student or Senior ___

Payment Amount: _____

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