CONFERENCES

Vancouver '90, GAC/MAC, May 16-18, 1990, Hotel Vancouver
- preliminary schedule enclosed

Great Basin Symposium, April 2-5, 1990, Reno, Nevada
- phone (702) 323-3500

Pacific Rim 90 Congress, May 6-12, 1990, Gold Coast, Queensland, Australia
- Excursion G - North & Central Sumatra, Volcanology $A3,400.
- Excursion J - Papua, New Guinea, Volcanology, mineral deposits, Cost $A8,000 plus registration etc.

V.M. Goldschmidt Conference, Baltimore, Maryland, May 2-4, 1990.
- Donna Ricketts, phone (814) 863-1743

International Volcanological Congress (IAVCEI) Mainz (FRG) 1990,
Sept. 3-8, 1990; tel (06131) 305-1/-390/-231, Dr. Gerhard Brey

GAC/MAC, Toronto, Ont., May 27-29, 1991

VOLCANOLOGY DIVISION FIELD TRIP - 1991 (?)
- returns from members are light but favour the Greek Islands 10:1, followed by Kenya (Roger Laurent was there and reported it could be done at a reasonable cost), Baja California, Germany.

CONTRIBUTIONS

Contributions to Ash Fall are welcomed and should be sent to:
E. W. Grove, Editor, Ash Fall
Volcanology Division
4581 Boulderwood Drive
Victoria, B.C. V8Y 3A5

Note: A number of members have failed to keep their addresses up to date. The Post Office does not forward mail indefinitely - it is returned to sender. GAC Headquarters reports that as of March 1, 1990, 600 members had not paid GAC dues. Both the above can result in your missing journals and newsletters.
ANNUAL MEETING - MINUTES
VOLCANOLOGY DIVISION
GEOLOGICAL ASSOCIATION OF CANADA
MAY 17, 1989
1600 hrs.
Palais de Congress
Montreal, Quebec

Members Present:
Roger Laurent, President
Les Coleman, Vice President
Ted Grove, Sec./Treas., Editor Ash Fall
Neil Church
Walter Gibbons
Bill Padgham
Jean Lajoie
Karen Stamatakopoulo-Seymour

Meeting called to order by Roger Laurent.

Minutes of last meeting read and accepted
- moved by W. Church, seconded by W. Gibbons, approved unanimously.

Business arising from minutes - none.

Report of Activities
President - activities since May 1988 included:
- election of new officers
- L. Gelinas 1989 Volcanology Prize awarded to Francois Brasnett (Sedimentological Interpretation of Pyroclastic Deposits of Monte Vulcain, Central Italy) under direction of Prof. Jean Lajoie, U. de Montreal.

Question regarding composition of thesis award committee yet to be resolved.

Division officers to be sent Division Charter of organization (forwarded by Ted Grove).

Discussion of timing of thesis for Gelinas award; resolved that both M.Sc. and Ph.D. theses could compete, and that the award could come from the 1988/1989 crop.

V.P. - Les Coleman summarized the Volcanology Division field trip of May 1989 to southern Italy and the Aeolian Isles.
Participants included 18 geologists, 6 wives (1 geologist), and 1 family member. The trip was arranged through the services of American Express which gave the best price.

Minutes - May 17, 1989 continued

Regarding Wolfville 1992, letter from Mike Easton regarding field tours discussed. Reply to be sent by Roger Laurent.

1991 Division Field Trip should be in an area of interest where no trips have been previously sponsored. Areas suggested included the Rift Valley (Kenya), the Philippines, Germany, and the Greek Islands.

Agreed by all that the Volcanology Division is eager to cooperate with Geolow.

Regarding Special GAC Projects, the Robinson Lecture, needs terms of reference.

It was agreed that W.A. Baragar would be nominated by the Volcanology Division for the Ambrose Medal for this work in classification of Volcanic Rocks, and his field work. Letter to be forwarded by Roger Laurent.

Regarding a letter to Roger Laurent from Sandra Barr re Guillermo Alvarado, Costa Rica, a note for Ash Fall required.

Meeting adjourned at 1800 hours.

Minutes - May 17, 1989 continued

Trip leaders were arranged through Professor Romano of the Volc. Inst. at Catania. Overall a very successful tour enjoyed by all.

Financial Statement for the year ended December 31, 1988 was tabled by the Secretary/Treasurer.

Councillors to replace Walter Gibbons and Mike Hammond nominated were:
Karen Stamatakopoulou-Seymour for Central Canada, and Paul Modjak for Western Canada

moved by L. Coleman, seconded by W. Padgham, unanimous.

It was suggested by Walter Gibbons that new officers-councillors should be nominated prior to the annual meeting.

Discussion ensued over issue of Award - i.e. annual, biennial, M.Sc. Ph.D. or both.

Agreed unanimously that the Award should be increased to $250.00, and that the 1990 Gelinas Award would be to the best thesis for 1989/90, subsequently alternating the prize for M.Sc. and Ph.D. but no obligation to give award is involved.

The question of the number of issues of Ash Fall was discussed briefly and left to the discretion of the Editor.

Les Coleman reaffirmed the position that the Volcanology Div. field trip should be biennial and published in Geolow.

It was agreed by all that funding a student for field trips associated with the Annual GAC was not desirable.

Regarding Vancouver 1990, the St. Helens Field Trip - that the Division should be involved particularly if a field guide was to be produced.

It was also agreed by all that the Division was not to be associated with the 1990 field trip to Hawaii.

Regarding Toronto 1991 - it was suggested that the Division members should be queried via Ash Fall as to interest in a particular problem.

GEOLGICAL ASSOCIATION OF CANADA
FINANCIAL STATEMENT
VOLCANOLOGY DIVISION
FOR THE YEAR ENDED DECEMBER 31, 1989

Opening Balance, January 1, 1989

<table>
<thead>
<tr>
<th></th>
<th>$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revenues and Receipts</td>
<td></td>
</tr>
<tr>
<td>Bank Interest</td>
<td>198.59</td>
</tr>
<tr>
<td>Division Dues for 1989</td>
<td>716.00</td>
</tr>
<tr>
<td>Sale of Trans Mexican Field Trip Guide Book</td>
<td>220.00</td>
</tr>
<tr>
<td>TOTAL</td>
<td>1,134.59</td>
</tr>
<tr>
<td>Expenses</td>
<td></td>
</tr>
<tr>
<td>Bank charges</td>
<td>32.90</td>
</tr>
<tr>
<td>Production of Ash Fall</td>
<td>537.74</td>
</tr>
<tr>
<td>Leopold Gelinas Volcanology Thesis Award</td>
<td>100.00</td>
</tr>
<tr>
<td>TOTAL</td>
<td>670.64</td>
</tr>
<tr>
<td>Net Revenue (Deficit)</td>
<td>$463.95</td>
</tr>
</tbody>
</table>

Closing Balance, December 31, 1989

<table>
<thead>
<tr>
<th></th>
<th>$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Represented by: Chequing Account (Pacific Coast Savings Credit Union)</td>
<td>3,307.00</td>
</tr>
</tbody>
</table>
ANNEX 1

**Proposed agenda for Volcanology Division Annual Business Meeting**

**Vancouver '90**

Friday, May 18th (1990), 16.00-18.00

at Room 4, Hotel Vancouver

1. Call to order
2. Minutes from last meeting
3. Business arising from the minutes
4. Comments and approval of Agenda
5. Report from the chairman
6. Report from the secretary-treasurer
7. Selection of volcanology field trip
   - Toronto 91’
   - Wolfville 92’
8. Scheduled activities: Toronto 91’
9. Election of officers
10. Remarks of the incoming chairman
11. New business
12. Motion of adjournment.

ANNEX 2

**CALL FOR NOMINATIONS**

Terms of two years for several executive positions of the Volcanology Division of GAC expire in May 1990. Nominations are suggested below:

Chairman: Les Coleman
Vice-chairman: Catherine Hickson
Secretary-treasurer: E.W. (Ted) Grove

Members are invited to nominate other persons. Nominations will be accepted until April 15, 1990. Voting for the slate of officers will be concluded at the Volcanology Division Annual Business Meeting at Vancouver '90. The meeting will be held on May 18th 1990, at 16.00 in room 4, Hotel Vancouver.
ANNEX 3

Proxy Form

I. ............................................................. (please print) a member of the Volcanology Division of the Geological Association of Canada, do hereby appoint R. Laurent, chairman, as my proxy to vote for me and on my behalf at the Annual Meeting of the Volcanology Division to be held at Vancouver during the GAC-MAC meeting being held there, and at any adjournment thereof.

Date.........................1990, ..............................................

Signature of member

Address to: R. Laurent
            Département de géologie
            Université Laval
            Ste-Foy (Qc) G1K 7P4
The following information is from the 3rd circular for the Vancouver '90 meeting. Many of you may not have received your acceptance letter for the other session, we apologize for the delay and can only say that the letters have started to roll out of the office as of March 15. There was also anarrangement of the time of the poster abstract, remember that it may be slotted into another session.

The program has been arranged by day, session, and time. All papers within a given session on a particular day have been grouped together, and numbered according to their time of day and order in the session. For example, paper 2-6 is in the 2nd oral session and is the 6th paper. The key to the sessions is as follows:

1 - 1st session (ORAL) (08:00-10:00)
2 - 2nd session (ORAL) (10:30-12:10)
3 - 3rd session (ORAL) (14:00-15:15)
4 - 4th session (POSTER) (16:00-18:00)

Each oral presentation is 15 minutes in length with 5 minutes for questions. Posters will be on display from 08:30 in the morning until 12:00 in the evening. Attendees are requested to be on hand beside their posters from 16:00-18:00. During this time slot, there are no oral sessions and everyone is encouraged to come see the exhibition and drinks that will be in the poster displays. There were a number of papers where authors who requested oral sessions were assigned to a poster session due to the large number of abstracts received (over 250). If you were one of these authors, I would like to reassure you that your paper will receive as much attention as the oral presentations, if not more!

VENDREDI, MAI 16, 1990
GEOCHEMISTRY/ SEDIMENTARY PETROLOGY: Hotel Vancouver - Garibaldi Room

Chairmen: C. Alpers and J. Rendes

08:20 - 1
Iain M. Sampson* and Anthony X. Williams-Jones: C-P-R-N-S-Halt Salts Associated with Contact Metamorphism, McCarrie Mountains, Quebec: A Raman Spectroscopic Study

08:40 - 2
Steve B. Botnet* and Joan M. Richardson, Allen P. Dickin, Robert S. McNutt, and Colin J. Coates: Re-Os Isotope Geochemistry of the Mi-Cu-PO灯光 ore from the McFarland East Mine, Cochrane, Ontario

09:00 - 3
Marie Bergeron: A Field Study on the Chemical Forms of Dissolved Gold in Surface Environments

09:20 - 4
J.L. Gagnon, Marie Bergeron and Pierre J. Calimandres: Speciation of Gold in the Val d'or Schafferville, Quebec

09:40 - 5
Adrienne G.L. LaRocque, R. Wayne Meabott and Ronald W.F. Diabli: Mobility and Residence Sites of Zinc in Weathered Till

Robson Square Conference Centre: Exhibition Hall 16:00

POSTERS:

4-6
Steven R. Benett*, Joan M. Richardson, Allen P. Dickin and Robert S. McNutt: Elemental Abundances of Re and Os in Geological Materials

Lucie Blanchette*, Marie Bergeron and Claude Barbeau: Determination of REE by Ion Chromatography and MA in Rocks at Concentrations below 0.1 ppm

Anders W. Schrammar, R. Czadz and E.B. Jirk: Nature of Au and Ag-Au-Bearing Fluids in Central Victoria, Australia

Ian D. Clark*, J.-O. Fontes and Mari Fritz: Hypersaline Groundwaters and Associated Travertines: Stable Isotope Compositions and Paleoclimatology


Donald D. Houghton* and John T. Kiese: Migration of Elements from Carbonatites into Dolostone at Carillon, Canada, Southeastern Ontario

Patrick P. O'Mara*: Chemical Ionation Diagrams - A Technique New to Noble Open Air Mine Analyses


C.-14
Peter J. Randes* and E.L. Barnes: The Hydrothermal Kinetics of Silicon Dissolution and Precipitation

E.P. Schwartz* and T.-T. Shi: Oxygen Isotopic Evidence for the Role of Water in the Genesis of Granite

Harald Weisberg*: Baryte Occurrences and Thermal Anomalies in the Baskettown Group (Lower Ordovician) of the St. Lawrence Lowlands, Quebec, Significance for Exploration

Andreas Trabesohl and W. Bergeron: The Aigne Complex Granite as a Source for Granite-Bearing Conglomerates of the Nagy Group, Quebec Appalachians: Comparative Petrography and Geochemistry

Dale R. Van Stempvoort*: Controls of Sulfate Air/O2 in Aquatic Ecosystems

Steve W. Whittaker* and T. Curtis Kyser: Hn-Isotopic Behavior of Molluscan Shells from the Cretaceous Western Interior Basin of North America

Karl K. Vioth* and John H. Bird: Trace Element and Isotope Compositions of Late Cretaceous Alkaline Basalts, Northeastern Alaska

GEOCHEMISTRY/ IGNEOUS PETROLOGY Hotel Vancouver - Garibaldi Room

Chairmen: M. Sun and K. Seiffert

08:20 - 1
D. Lauth* and A.D. Fowler: Petrogenesis of Graphic Quartz-Pheldspar Intergrowths in Granville Granite Pegmatites: A Study of the Composition and Phases

09:00 - 2
W.R. Braken, A. Karr, J.P. Reyes and B.J. Fryer: Geochemistry of Late- to Post-Dioritic Granitoid Plutons across the Newfoundland Appalachians: Relationship to Tectonic Zones

09:20 - 3
Don Francis*: Marginal Abundance Constraints on the Nanaimo Evolution of the Northwestern Intrusion, N.W.T.

09:40 - 4
S. Atkinson* and K. St. John-Lambert: Strontium Isotope Variation Along the Ross Dike, Columbia River Basalt, Washington and Oregon

10:00 COFFEE

Chairmen: D. Baker and R. Martin

10:30 - 2
Don R. Baker*: Peering into a Magmatic Chamber: Evidence from Melt Inclusions and Flagellate Completeness

10:50 - 3
Valerie Desgrottes* and Don Francis: Pyroclastic Compositional Indicators of Evolving Parental Magma in the Northwestern Intrusion, N.W.T.

11:10 - 4
M.D. Cook* and N.L. Crawford: Well Island Volcanics: Geochemistry and Geostratigraphy

11:30 - 5
M. Boly*: A.M. Williams-Jones and S. Sali: A Reappraisal of the Geology and Geochemistry of the Er-7-Ba-N and RNE Mica-analysed Strange Lake Peralkalic Pluton, Quebec-Labrador Province

11:50 - 6
John F. Martin* and A.M. Abdel-Rahman: Post-Eruption Mantelalization of the Volcanic Magma of the Deloro Anorogenic Pluton, Ontario, Ontario

12:10 LUNCH

Chairmen: J. Spray and J. Signy

14:00 - 7
Diane Elias*, Michel Jebrak-Jibrak and Alain Tremblay: Petrography and Geochemistry of the Bonnineur Volcanic Sequence, Quebec Appalachians

14:20 - 8
S. Astraulia* and G. Valiquette: Geochemistry of Some Devonian Intrusions of North Central Gaspesia, Quebec

14:40 - 9
Patricia A. Flugier and John G. Snoe: Generation of Flagganites by Amphibolite Anisodes in Oceanic Shear Zones: Rb-Sr Evidence

15:00 - 10
Fritz Tissandier* and Norman R. Halden: Geochemistry and Fractional Crystallization History of the younger Lakeland Intrusive Complex

15:20 - 11
Isabelle Robjillard* and Don Francis: Trace Element Constraints on the Origin of the Naffin Bay Series
The following information is from the 3rd circular for the Vancouver '90 meeting. Many of you may not have received your acceptance letter for these or any of the other sessions, we apologize for the delay and ask that the letters have started to roll out of the office as of March 15. There was also some rearrangement of the papers - so if you cannot find your abstract, remember that it may be slotted into another session.

The program has been arranged by day, session, and time. All papers within a given session on a particular day have been grouped together, and numbered according to their time of day and order in the session. For example, paper 2-6-4 is in the 2nd oral session and is the 6th paper. The key to the sessions is as follows:

1 - 1st session (ORAL) (08:20-10:00)
2 - 2nd session (ORAL) (10:30-12:10)
3 - 3rd session (ORAL) (14:00-15:40)
4 - 4th session (POSTER) (16:00-18:00)

Each oral presentation is 15 minutes in length with 5 minutes for questions. Posters will be on display from 8:30 in the morning until 18:00 in the evening. Presenters are requested to be on hand beside their posters from 14:00-18:00. During this time, there is no limit on the number of people who may visit each poster. Each presenter should be ready to answer questions about their research.
FRIDAY, MAY 18, 1990

SPECIAL SYMPOSIUM Commemorating the 10th Anniversary of Mount St. Helens, Boardroom, Hotel Vancouver

Chairmen: C.J. Hickson, D.W. Peterson

08:10 Opening Remarks: Roger Laurent, Volcanology Division Chairman
08:20 1-1 C.J. Hickson*: The May 18th, 1980 Eruption of Mount St. Helens, Washington State: An Eyewitness Perspective
08:40 1-2 C.A. Hopson*: Pre-1980 Mount St. Helens Volcanic Center
09:00 1-3 Brian P. Hausback* and D.A. Swanson: Prehistoric Avalanche Record of the North Flank of Mount St. Helens, Washington
09:20 1-4 Melinda M. Brugman*: How Does 'Fire' and Ice Interact on a Volcano?
09:40 1-5 Stephen D. Malone*: Mount St. Helens - The 1980 Reawakening
10:00 COFFEE
10:30 2-6 Harry Glicken*: The Rockslide-Debris Avalanche of the May 18, 1980 Eruption of Mount St. Helens: 10th Anniversary Perspectives
11:10 2-8 Donald A. Swanson*: A Decade of Dome Growth at Mount St. Helens, 1980-89
11:50 2-10 Donald W. Peterson*: Overview of the Effects and Influence of the Activity of Mount St. Helens in the 1980's
12:10 LUNCH

VOLCANOLOGY DIVISION MEETING: 12:30-14:00, Boardroom, Hotel Vancouver (‘take away’ lunch will be available in the nearby exhibit area)

14:00 3-11 Peter B. Read*: Mount Meager Volcanic Complex, Southwest British Columbia
14:20 3-12 Nathan L. Green*: Late Cenozoic Volcanism in the Mount Garibaldi and Garibaldi Lake Areas, Garibaldi Volcanic Belt, Southwestern British Columbia
14:40 3-13 R.A. Bailey*: Magmaaic Unrest at Long Valley Caldera, California, 1980-1990 15:00 3-14
William E. Scott*: Patterns of Post-15-Ka Volcanism in the Cascade Arc
15:20 3-15 Dan C. Miller*: Volcanic Hazards in the Pacific Northwest
Robson Square Conference Centre: Exhibition Hall
16:00

POSTERS:

4-16 D.G. Bailey*, R.M. Conrey, P.R. Hooper and K.M. Bailey: A Common Primitive Magma for Neogene Volcanism throughout the Northwestern U.S.A.?

4-17 Francois P. Brissette* and Jean Lajoie: Flow-Driven, High-Density Traction Carpets at the Base of Pyroclastic Surges

4-18 Paul Budkewitsch* and Pierre-Yves F. Robin: A New Feed-Back Model for the Incremental Crack Propagation Path of Columnar Jointed Structures

4-19 S. Carey, H. Sigurdsson and J.E. Gardner*: Column Height and Magma Discharge Rate Variations During the May 18, 1980 Eruption of Mount St. Helens


4-21 William A. Crawford* and Maria Luisa Crawford: Late Cenozoic Alkaline Olivine Basalt Centers Northeast of Ketchikan, Alaska

4-22 S.G. Evans*: Massive Debris Avalanches from Volcanoes in the Garibaldi Volcanic Belt, British Columbia


4-24 Lee Siebert*, Harry Glicken and Tadahide Uii: Large Volcanic Debris Avalanches: A 10-Year Post-Mount St. Helens Perspective

4-25 Karen St. Seymour*, Roussos Dimitrakopoulos and Dimitri Vlassopoulos: A Stepwise Discriminant Analysis of Petrochemical Characteristics of Cenozoic Volcanism Along the Aegean Island Arc: Petrogenetic Perspective

4-26 Dan H. Vice* and David P. Gold: Some Changes in the Thermal and Hydrologic Regime in the Area around Mt. St. Helens from 1977 to 1981