PERSONAL COLUMN

Information on Association members is received from around the world. To keep your fellow members informed of your latest moves send a brief summary to the Rexdale Association office.

R. Beeson, formerly of Uran Private Company in Tehran, has joined Robertson Research (Australia) as senior Geochemist.

P.M.D. Bradshaw has resigned from Barringer Magenta Ltd., Toronto, and has been appointed Chief Geochemist of Placer Development’s Technical Service Group responsible for worldwide operations in Vancouver.

W.K. Fletcher has been appointed technical coordinator to the British Columbia Royal Commission of Inquiry into Uranium Mining chaired by Dr. David V. Bates. His duty being to ascertain what geochemical work is relevant to the Commission and arrange for its presentation.

A.R. Hope has returned to Australia from the Philippines, his new address is, The Broken Hill Proprietary Co. Ltd., G.P.O. Box 86A, Melbourne, Vic. 3001 Australia.

M.V. White has established his own consulting company, Ex-Plor International Corporation, in Oakville, Ontario. The company provides a range of geochemical services and specializes in aspects of rock geochemistry and biogeochemistry where neutron activation analytical methods are used in the search for gold, base metals and uranium.
EDITORIAL --- President Paul Theobald

The summer months have been relatively quiet for most of the Association's executive as we enjoyed field work. For those few dedicated souls who have continued to press Association business, it has been a remarkably successful summer. Of prime concern has been the support for and selection of sites for future symposia. The organization for the symposium on geochemical exploration for uranium to be held in conjunction with GSA in San Diego, California, is nearly complete and an excellent program is in the offing. The eighth biennial symposium in Hannover is in its final stages of organization and plans for publication of the symposium proceedings as a special issue of the Journal have been initiated. Initial planning for the ninth biennial symposium in Saskatoon offers great promise. Geochemical applications in energy exploration will provide a natural central theme for the energized environment of that part of Canada. Sites for the tenth and eleventh biennial symposium are still in the discussion stages, but the Scandinavian countries and Brazil have indicated that invitations will be forthcoming to establish a strong base for future planning.

I look forward to renewed activity on a broad spectrum of Association activities this Fall. In the meantime, I hope to squeeze out a few more cool, clear days in the high mountains and wish you all a similar pleasure.

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FUTURE MEETINGS

8TH INTERNATIONAL GEOCHEMICAL EXPLORATION SYMPOSIUM,

April 10 - 15, 1980, Hannover

Dr. Heinrich Gundlach and his organizing committee have the 8th I.G.E.S. preparations well in hand. As a reminder the deadline for abstracts submission is October 15, 1979. These abstracts should be informative, but no longer than one page in length. The selection of contributions to Lecture and Poster Presentations will be based on these abstracts.

Should anyone not be on the 8th I.G.E.S. mailing list and wish to attend the Symposium they should contact the Organizing Committee at the earliest opportunity.

Dr. H. Gundlach
8th I.G.E.S. Organizing Committee
Federal Institute of Geosciences and Natural Resources
P.O.Box 510 153
D-3000, Hannover 51
Federal Republic of Germany

Eastern North America Air Charters and Flights

For those who will be attending the 8th I.G.E.S. and will be leaving from Eastern Canada and the U.S. Anne Cameron, the wife of our Journal Editor, has compiled the following information. To date only a single member has responded to the secretary's note re travel from Eastern North America in the June Newsletter.
As people return from the field travel plans will be made, so this information is timely.

Charter Class: 14-60 days. Limited number of seats. These seats must be booked well in advance, there is a $50.00 non-refundable deposit. The balance of the fare must be paid 30 days prior to departure.

Montreal - Frankfurt Can.$ 445
Toronto - Frankfurt Can.$ 457
New York - Frankfurt US $ 368
Frankfurt- Hannover DM 323

Apex: 14-60 days. Only a limited number of seats available and these must be booked well in advance, at least 30 days. Full payment of fare is required within 7 days of booking.

Montreal - Hannover Can.$ 512
Toronto - Hannover Can.$ 542
New York - Hannover US $ 420

G.I.T.: Timing flexible, all members of the group must travel together. Group size must be in the range of 7-21 persons.

Montreal - Hannover Can.$ 612
Toronto - Hannover Can.$ 667
New York - Hannover No G.I.T. rate

Excursion: 14-60 days. No advanced booking benefits (i.e. rate reduction)

Montreal - Hannover Can.$ 699
Toronto - Hannover Can.$ 723
New York - Hannover US $ 608

Economy: Timing flexible.

Montreal - Hannover Can.$ 990
Toronto - Hannover Can.$1050
New York - Hannover US $ 722

The routing of these flights breaks down into two types, closed jaw and open jaw. A closed jaw routing does not allow for any stop-overs. Charter Class falls into this group, no deviation is allowed from the North America to Frankfurt return, any additional European travel would have to begin and end in Frankfurt. All other flights are open jaw, i.e. the east bound portion puts one in Hannover, but the west bound return may be from other points in Europe, with appropriate modifications to cost.

Only one of these options, G.I.T., is group travel, all others are individually arrangeable. If one intends to travel only to points in Europe to which Frankfurt is convenient and be there for two weeks Charter Class is the best buy. However, only a limited number of these seats are available - book early. The Apex fare looks very attractive, low cost and open jaw, however one must book early and pay the fare in full within 7 days of booking. If any group of 7 or more persons wish to travel to Hannover together and return to North America together some benefits are available in comparison with the regular excursion or economy rates fares most of us are familiar with.

Please note that these fares may well change before 1980, however the relative merits of the different classes of travel can be gauged from the above.

A further point of interest. Immediately after the Symposium one of the major European Trade Fairs starts in Hannover. Therefore, it is suggested that travel and hotel arrangements are made as far in advance as possible so as to ensure a satisfactory outcome.
9TH INTERNATIONAL GEOCHEMICAL EXPLORATION SYMPOSIUM

May 12-14, 1982, Saskatoon, Canada

The organizing committee has held its first meeting and a basic theme of geochemistry in the service of Energy has been decided upon. Further meetings are planned for this autumn and winter.

GEOCHEMICAL EXPLORATION FOR URANIUM SYMPOSIUM

November 4, 1979, San Diego, U.S.A.

This one day symposium to be held just prior to the Annual Meeting of the Geological Society of America is being sponsored by the Association and the U.S. Department of Energy. The topics cover all aspects of uranium geochemical exploration in North America. The organizing committee is led by Bob Carpenter and it is proposed that the papers be published in the Journal. If you plan to attend the GSA meeting come a day earlier and attend the symposium. The Symposium will be held in the Presidio Room (seating for 1100) of the Town and Country Convention Centre and a list of the topics and speakers is given below. Note that GSA registration does not start till the afternoon of Sunday, November 4, however GSA registration is not a prerequisite for entry to the Symposium. Both the GSA and the Association do hope that Symposium attendees will in fact register and attend the GSA annual meeting.

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Principal Author</th>
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<tbody>
<tr>
<td>8:30</td>
<td>Geochemical Exploration for Uranium - an Overview</td>
<td>G. Markos</td>
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<tr>
<td>9:00</td>
<td>Hydrogeochemical and Stream Sediment Reconnaissance</td>
<td>S.L. Bolivar</td>
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<tr>
<td>9:35</td>
<td>Analytical Methodology for Uranium Exploration- Retrospective and Prospective</td>
<td>F.N. Ward</td>
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<td>10:10</td>
<td>Intermission</td>
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<tr>
<td>10:25</td>
<td>The Management and Analysis of Regional Geochemical Data</td>
<td>R.G. Garrett</td>
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<tr>
<td>11:00</td>
<td>Geochemical Exploration Models for Sedimentary Uranium Deposits</td>
<td>A.W. Rose</td>
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<tr>
<td>11:30</td>
<td>Granitic Uranium Deposits</td>
<td>J.W. Rogers</td>
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<tr>
<td>12:00</td>
<td>Lunch</td>
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<td>1:50</td>
<td>Uranium Exploration - Ground and Surface Waters</td>
<td>T.R. Butz</td>
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<td>2:10</td>
<td>Geochemical Exploration for Uranium in Northern Lakes</td>
<td>E.M. Cameron</td>
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<td>2:30</td>
<td>Stream Sediment Geochemical Surveys for Uranium</td>
<td>V. Price</td>
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<td>2:50</td>
<td>Intermission</td>
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<td>3:05</td>
<td>Geochemical Exploration for Uranium in Playas</td>
<td>D.L. Leach</td>
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<td>3:25</td>
<td>Geochemical Exploration for Uranium Employing Soil Sampling</td>
<td>P.M.D. Bradshaw</td>
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<tr>
<td>3:45</td>
<td>Geochemical Exploration - Technique Integration in the Red Desert, Wyoming</td>
<td>L.B. Bramlett</td>
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<tr>
<td>4:05</td>
<td>Panel Discussion with Principal Authors to answer questions from the audience</td>
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A GEOCHEMICAL SHORT COURSE, December 3-5, 1979

This 3 day short course is being organized by Ben Ainsworth of Placer Development, Toronto, in conjunction with the Northwest Mining Association, to be held, at the annual meeting in Spokane, Washington. The course is designed for exploration geologists working in the western cordillera who are users of geochemical methods but would not consider themselves geochemists. The Association is well represented in the speakers list which in addition to Ainsworth includes Barakso, Bradshaw, Hoffman, Lett, Smee and Wahl. The course is limited to 200 persons and has an associated fee of $200.00.

FROM THE SECRETARY'S OFFICE

Firstly I would like to thank all those members who have already sent in their 1980 dues to the Toronto office, and also those who have publicized the availability of Geochemical Exploration 1978. This publicizing activity by you has resulted in some 93 orders being sent in.

The second call for 1980 dues is enclosed, if you have not yet sent your dues in the office would be most grateful if you would forward them to reach Toronto by the end of the year.

There have been several inquiries about reprints from Geochemical Exploration 1978 by authors. The publisher assures us that the reprints were mailed over the period June to July. Any problems being experienced are believed to be due to the mail system. The packages left by 4th class mail and if you have not received them yet I suggest you contact the publisher and inform him of their non-arrival.

Mr. Chad H. Davis
Spectra-Graphics, Inc.,
P.O.Box 38487
Denver, Colorado 80238 U.S.A.

The amendment of our By-Law No.1, in effect our constitution, which was voted upon, and passed, at the Tucson AGM has been approved by the Federal Minister of Consumer and Corporate Affairs. This step was necessary due to our incorporation under Federal Law in Canada. Over the summer the By-Law has been re-typed, with the aid of a word processing typewriter, and has been checked. It will be going to the printer after the cover preparation is complete. It is intended to mail copies to all members with the December Newsletter.

The office occasionally receives letters from Journal authors about reprints of their articles. The situation is as follows. The galley proofs are sent to the senior author by Elsevier for checking. Accompanying the proofs is a Reprint Order Form, this must be filled out and returned with the proofs. Any second authors, etc. are not sent Reprint Order Forms and the senior author should make appropriate arrangements for an adequate supply of reprints. The Association does not enter into this procedure, it is strictly a transaction between the author(s) and Elsevier. The person responsible for the Journal at Elsevier is Mr. Alan V. Stunt and any specific problems should be addressed to him,

Mr. A.V. Stunt
Editorial Office,
Journal of Geochemical Exploration
P.O.Box 1345
Amsterdam, The Netherlands
Another problem which sometimes leads to letters to the office is the delivery of back issues for the year in which a new member joins the Association. Once a member is on Elsevier's mailing list current issues are shipped by a combination of air freight and mail. However, back issues are shipped by surface mail from the Netherlands. This procedure can take from 1 to 3 months and often a current issue will arrive before the back issues. Therefore, new members please allow for this mailing system, you have not been forgotten.

In case you have not noticed, the 1979 Supplement to the Bibliography of Exploration Geochemistry is now available from the Toronto office. This 85 page update to the 1972-75 Bibliography is a bargain at US $2.50.

JOURNAL NEWS

The Editor of our Journal, Eion Cameron, has provided the Newsletter with a list of forthcoming papers in the Journal. These are listed in order of their transmittal from the Editor to Elsevier, they will probably appear in this same order, as listed below.


Amit, O. and Bein, A. The genesis of asphalt in the Dead Sea area.

Thurman, E.M. and Runnells, D.D. Baseline study of the concentration of molybdenum in bottom sediments of the major rivers in Colorado, U.S.A.

Tripathi, V.S. Factor analysis in geochemical exploration.

Ball, T.K. et al., Geochemical prospecting for baryte and celestite using a portable radioisotope fluorescence analyser.

Storm, et al., A method for the determination of tungsten in silicate rocks after lithium metaborate decomposition.

Golson, B.L. and Mizon, K.J. Lead isotopes as a tool for gossan assessment in base metal exploration.

Dunlop, A.C. et al., Surface lithogeochemical studies about a distal massive sulphide occurrence at Limerick, New South Wales.

Cameron, E.M. Effect of graphite on the enhancement of surficial geochemical anomalies originating from the oxidation of sulphides.

Ribiero, M.J. and Dos Santos, M.M. Geochemical exploration over a mafic-ultramafic complex, Americana do Brasil, Goias, Brasil.


Pahlavanpour, B. et al., The determination of tin in geochemical samples by inductivity coupled plasma atomic emission spectrometry.

Lively, R.S. et al., Disequilibrium in the $^{238}$Uranium series in samples from Yeelirrie, Western Australia.

Brooks, R.R. Indicator plants for mineral prospecting - a review.

Chukhrov, F.V. et al., Background levels of copper and zinc in common plants from various regions of the Soviet Union.
BIBLIOGRAPHY

RECENT PAPERS ON EXPLORATION GEOCHEMISTRY

This list comprises titles that have appeared in major publications since the compilation present in Newsletter No. 28. Journals routinely covered and abbreviations used are as follows: Economic Geology (EG); Geochimica et Cosmochimica Acta (GCA); The USGS Journal of Research (USGS JR); Circular (USGS CIR); and Open File Report (USGS OFR); Geological Survey of Canada Papers (GSC Paper) and Open File Report (GSC OFR); Bulletin of the Canadian Institute of Mining and Metallurgy (CIM Bull); Transactions of Institute of Mining and Metallurgy, Section B: Applied Earth Sciences, (Trans IMM). Publication less frequently cited are identified in full. Compiled by L. Graham Closs, Colorado School of Mines, Member AEG Bibliography Committee.


Anon. 1979. Geochemical and generalized geologic map showing distribution and abundance of barium, arsenic, boron, and vanadium in stream sediments in the Chandalar quadrangle, Alaska. Scale 1:250,000. USGS MF-878-G.


Miller, R.J. et al. 1979. Maps showing the geochemical distributions and abundances of Zn, Au, Bi, and As in heavy-mineral concentrates, Talkeetna Mountains quadrangle Alaska. USGS OFR 78-558 F, H, L, and P.


Page, N.J. et al. 1979. Palladium, platinum, and rhodium concentrations in mafic and ultramafic rocks from the Kizildag and Guleman areas, Turkey, and the Faryab and Esfanagheh-Abdasht areas, Iran. USGS OFR 79-840. 13 p.


Tripp, R.B. et.al. 1979. Geochemical maps showing the distribution of copper and gold in stream sediments and gold and silver in heavy-mineral concentrates in the Seward and Blying Sound quadrangles, Alaska. USGS MF-880E and F.

Viets, J.G. et al. 1979. Spectrographic and chemical analyses of whole rock and insoluble-residue samples, Rolla 1° by 2° quadrangle, Missouri. USGS OFR 79-364A to J.


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**EMPLOYMENT OPPORTUNITY**

**IMPERIAL COLLEGE**

**MINERAL INDUSTRY RESEARCH FELLOW**

Applications are invited for this challenging post in Exploration Geochemistry within the Applied Geochemistry Research Group of the Department of Geology. The Fellow will provide leadership in research and teaching within his field, in co-ordination with other related activities within the Department. The appointment is for seven years in the first instance, and is supported by significant research funding provided by interested mining companies. The Department is well-resourced in terms of analytical and computational facilities.

Applicants should have at least ten years relevant experience in industry and/or research, and should identify the areas of research interest which they would like to develop.

The appointment will be at a senior level on the salary scale £6182-£10097 (under review) plus £502 London Allowance and membership of USS.

Applications, including a full curriculum vitae and the names of two referees should be sent to,

Professor J.L. Knill,
Department of Geology,
Imperial College,
London SW7 2BP
England

from whom further particulars can be obtained. Closing date for applications is October 12, 1979.
NOMINATIONS FOR ORDINARY COUNCILLORS

Members are reminded that nominations for at least 8 ordinary councillors are required for the election of councillors for the 1980-82 term. Any voting member may be nominated, this nomination must be supported by 6 voting members and the nominee must provide a written undertaking that he will serve on Council. Nominations should be in the hands of the Secretary by November 1, 1979.

PUBLICATIONS OF THE ASSOCIATION OF EXPLORATION GEOCHEMISTS

Special Volume


4 Applications of Probability Graphs in Mineral Exploration: A.J. Sinclair (1975), 95 p., $6.00 for AEG members and students, and $8.00 for non-members.


1977 Supplement to the Bibliography of Exploration Geochemistry, January 1976 - June 1977: H.E. Hawkes (1978), 63 p., $2.00 for AEG members and students, $4.00 for non-members.


NOTE: - those items marked by an asterisk, no. 2,3, and 6 are obtainable only from, Elsevier Scientific Publishing Co., P.O.Box 211, Jan van Galenstraat 335, Amsterdam, The Netherlands.

The remaining volumes are available through the Association office,
The Association of Exploration Geochemists
P.O.Box 523
Rexdale, Ontario CANADA
M9W 5L4