International Association of
Geochemistry and Cosmochemistry

Newsletter

number 29: November 1996

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Highlights of 1995/96

- General Assembly at IGC in Beijing.
- Two Council Meetings (old and new) at IGC.
- Ingerson Lecture for 1996 delivered by Dr. A. Masuda, Japan.
- Membership continues to increase.
- Finances in good shape.
- Agreement reached with Elsevier Science; royalty to be paid to IAGC, student subscriptions are reduced, page increase in Applied Geochemistry.

IAGC Business Activities

Council Meeting (August 6, 1996)

The final meeting of the 1992-1996 Council was held at the China World Trade Centre, Room B6, in conjunction with the 30th Annual Geological Congress. Highlights of the meeting include:

- the need to coordinate Ingerson Lectures with the Geochemical Society (as they also received a bequest for sponsored lectures),
- a summary of income and expenses for 1995 was presented (see below); it was decided that the Treasurer will investigate putting some IAGC funds into a long-term, high-yield interest savings account,
- the IAGC plans to hold its own symposium at the next meeting of the Geological Society of America,
- membership for 1995 has reached an all-time high of 631,
- one meeting received sponsorship for 1996: the 4th International Symposium on the Geochemistry of the Earth Surface, 22-28 July 1996, Ilkley, U.K.,
- reports of activities from four Working Groups were received (see later in this issue), no reports were received from four others, one of which (Natural Waters, Protection and Pollution) was deemed to be defunct and was discontinued by unanimous vote of Council,
- as a result of the new agreement with Elsevier Science, subscription rates for IAGC members to Applied Geochemistry would be $35 for 1996 and $40 for 1997.

◊ *Statement of Income and Expenses January 1, 1995 to December 30, 1995*

Beginning Balance, January 1, 1995		$53,024.32
Income:		
Member Dues	$ 7,540.00	
National Dues	3,180.00	
Other		
Interest	672.99	11,392.99
		$64,417.31
Expenses:		
Newsletter	$ 1,051.24	
IAGC-94 Expenses	314.34	
General Office Expenses	489.81	
Membership Fee - IUPAC	50.00	
Goldschmidt Conference	2,000.00	
6th Kimberlite Conference	2,000.00	
Bank Fees - Douglas Co.	0.10	5,905.49
Cash Balance, December 30, 1995		$58,511.82
Total Excess Income Over Expenditures 1995		$ 5,487.50
Chequing Account #047031 Douglas Co.	$26,610.48	
Chequing Account #566064 Citizens Bank	31,901.34	$58,511.82

The meeting concluded with a review of the agenda and procedures for the General Assembly to be held on the following day.

General Assembly (August 7, 1996)

The General Assembly of the IAGC was held at 18:00 on August 7, 1996 in the China World Trade Centre, Room A8, Beijing, China, in conjunction with the 30th International Geological Congress. Of the 18 delegates in attendance, three were official designates of National Member countries (Japan, Australia, UK) and 5 others were accepted as representatives of paid-up National Members (Russia, Canada, Germany, Norway and China).

The president (Dr. Hitoshi Sakai) called the meeting to order and after introducing the Executive, called for approval of the minutes of the previous General Assembly; held in Kyoto, Japan, on August 26, 1992. The minutes were approved unanimously and there were no matters arising.



Prof. Hitoshi Sakai (President) welcoming delegates to the IAGC General Assembly, Beijing, China, Aug. 7, 1996. Seated are (L) Mel Gascoyne (Secretary) and (R) Gunter Faure (Vice-President).

The **President** then reported on the activities of the IAGC over the period 1992-1996, summarized as follows:

IAGC, partly through its working groups, has co-sponsored the following international scientific meetings and has given financial support of up to $2000 to each of these meetings:

- Second International Symposium on Thermodynamics of Natural Processes, Novosibirsk, Russia, Sept. 9-13, 1992,
- International Conference for the Society for Environmental Geochemistry and Health, New Orleans, USA. July 25-27, 1993,
- First International Symposium on Applied Isotope Geochemistry, Geiranger, Norway, August 1993,
- IAGC Working Group Meeting on Extraterrestrial Geochemistry, Prague, Czech., July 25-29, 1994,
- V.M. Goldschmidt Conference, Edinburgh, UK, August 29-September 2, 1994,
- 16th General Meeting of the International Mineralogical Association, Pisa, Italy, September 3-8, 1994 (both Meeting and a Symposium sponsored),
- Fourth International Symposium on Geochemical Prospecting, Irkutsk, Russia, September 8-12, 1994,
- Third International Symposium on Environmental Geochemistry, Krakow, Poland, September 12-15, 1994,
- Fifth Annual Goldschmidt Conference, University Park, USA, May 24-26, 1995,
- 8th International Symposium on Water-Rock Interaction, Vladivostok, Russia, August 17-22, 1995,
- 6th International Kimberlite Conference, Novosibirsk, Russia, July 30-Aug. 19, 1995.

In addition, IAGC is a co-sponsor of the 30th IGC.

IAGC accepted the new contract with Elsevier Science Ltd. for IAGC's continued sponsorship of Applied Geochemistry. The contract includes, among other things, an annual royalty, to be paid to IAGC, which will be a great benefit for our future activity (for further details, see Newsletter 28 and the letter from the President (enclosed with this Newsletter)). The contract was prepared by the efforts of Gunter Faure over two years intensive negotiation with Elsevier.

The 1994 and 1995 Council Meetings were held, respectively, on August 28 at Edinburgh and on May 24, at Penn State, in conjunction with the V.M. Goldschmidt Conference. Both Meetings met difficulty with attaining a quorum, due to a lack of Council Members. Although I also was not able to attend both of them due to illness, Gunter Faure, as Acting President, organized committee meetings and important items discussed were later on distributed to other members for discussion and approval. To encourage the Council members to attend future Council Meetings, the IAGC has decided to provide them with a partial financial support, if necessary.

Progress on striking a Vernadsky Medal has been suspended due to the existence of a similar award in Russia.

The Ingerson Distinguished Lecturer at the 30th IGC is Prof. Akimasa Masuda, University of Electric Communication, Chofu, Japan, His talk is entitled "Progress expected in REE geochemistry".

The **Secretary** (Dr. Mel Gascoyne) stated in his report that the IAGC has seen a steady rise in membership over this four-year period, from about 540 in 1992 to 631 in 1995, an average annual growth of 5%. This is an improvement on the previous four-year period when a decline of 20% was observed. A summary of members and countries of origin is given below. Recently, Dr. David Long, IAGC Treasurer, has developed a 'home page' on the Internet and is currently designing it such that new members may join through the Internet (since no fees are payable initially) and can transmit their application form electronically, directly to the Secretary.

INDIVIDUAL MEMBERS

(Status at 1995-12-31)

Argentina	1	Korea	15
Australia	15	Mexico	2
Austria	4	Minor Yugoslavia	4
Belgium	3	Mozambique	1
Brazil	6	The Netherlands	8
Canada	52	New Zealand	7
China	5	Norway	10
Colombia	2	Poland	2
Czech Republic	2	Portugal	2
Denmark	4	Romania	1
Egypt	2	Saudi Arabia	1
Finland	3	Slovenia	1
France	15	South Africa	6
Gambia	1	Spain	6
Germany	25	Sweden	11
Greece	3	Switzerland	10
Hong Kong	1	Taiwan	2
Hungary	2	Turkey	2
Iceland	3	United Kingdom	44
India	4	USA	299
Israel	5	Venezuela	1
Italy	9	Vietnam	7
Japan	22		
		TOTAL	**631**

In contrast to the growth in ordinary memberships, the number of National Members (i.e. national organizations that are the official representatives of geochemists in those countries) has declined somewhat from a high of 17 in 1992 to only 8 in 1995. However,

full payment of 1996 dues has been received from 13 National Members so far this year. A summary of National Members that are paid up for 1996 is given below.

NATIONAL MEMBERS

Russia	Switzerland
Japan	Canada
UK	Norway
Czech Republic	Australia
Finland	Italy
Germany	China
Hungary	

NON-VOTING NATIONAL MEMBERS

Mexico
Croatia

AFFILIATED SOCIETIES

The Geochemical Society

Difficulty has been experienced over the last four years in holding quorate Council Meetings. In fact, for both the Meetings in 1994 and 1995, a quorum of Council Members (5) could not be obtained and so only ordinary meetings were held and Council Members polled by mail. Despite this limitation, a good deal of business has been conducted by the IAGC in areas such as increasing membership, supporting meetings and negotiating a new contract with Elsevier Science for the IAGC journal, Applied Geochemistry.

Four Newsletters were published (numbers 25 to 28) over the period and distributed to members towards the end of each year by regular mail. These have described the main activities of the IAGC, its financial status, activities of Working Groups and sponsored meetings of interest.

Finally, probably the most significant event of the last four years has been the negotiation and signing of a new contract with Elsevier Science for publication of the IAGC's journal, Applied Geochemistry. Details of this agreement are given on page 5. Dr. Gunter Faure, Chairman of the Publications Committee, performed outstanding work in negotiating a contract that is beneficial to the IAGC.

The **Treasurer** (Dr. David Long) then reported on the main changes in financial status of the IAGC at an end-of-year basis, as follows:

	1991	1992	1993	1994	1995
INCOME					
National Members	5,167	2,584	4,283	2,360	3,180
Individual Members	5,214	5,760	7,187	4,280	7,540
Interest		2,070	1,684	1,615	673
IUGS					
UNESCO		2,000			
Other	4,688		1,586		
Total	15,069	12,414	14,740	8,255	11,393
EXPENSES					
Support Symposia, newsletter, etc.	7,385	9,004	7,995	13,425	5,415
General office	567	523	856	602	490
Journal		6,000	67		
Bank		75	101	118	
Total	7,952	15,602	9,009	14,145	5,905
Excess Income over Expenses	7,117	(3,188)	5,731	(5,890)	5,488
Cash Balance	56,369	53,182	58,914	53,024	58,512

Dr. Long also described the **IAGC Home Page** he has created on the World Wide Web (address is http://www.ent.msu.edu/~long/IAGC) which gives information about the IAGC and allows new members to join through the Internet by transmitting their application form electronically to the Secretary.

Reports of the President, Secretary and Treasurer were accepted without further comment by the General Assembly.

The **Chairman of the Nominating Committee** (Dr. Heinrich Wänke) described the process of work of the Nominating Committee, made up of H. Wänke, U. Aswathanarayana, R.S. Harmon, S.R. Taylor and R. Volkov. Nominations for the Executive and Council for the period 1996-2000 given below were fully approved by vote of Council. The Secretary noted that he had received no comments from National Members on the proposed slate of officers. Accordingly, it was proposed by Japan, seconded by Russia, that the report of the Nominating Committee be accepted and the Council duly elected for the period 1996-2000, carried unanimously.

THE 1996-2000 COUNCIL

President	-	G. Faure	
Past-President	-	H. Sakai	
Vice-President	-	E.M. Galimov	
Treasurer	-	D.T. Long	
Secretary	-	M. Gascoyne	
Council Members	-	J.J. Gurney	(S. Africa)
		R.S. Harmon	(U.S.A.)
		J. Hoefs	(Germany)
		P. Jakes	(Czech Rep.)
		M. Javoy	(France)
		G. Kurat	(Austria)
		M. McCulloch	(Australia)
		N.V. Sobolev	(Russia)
		K.V. Subbarao	(India)
		Y. Zeng	(China)

In **Other Business**, Dr. Long gave more detail on the IAGC Home Page (see Treasurer's Report above). Dr. Faure, the new President, noted that the Executive have lots of ideas and enthusiasm for the upcoming term of office and planned to act to support geochemistry around the world by supporting student travel and meetings and by working more closely with its Working Groups. He asked that each of Council try to recruit more members. In closing, Dr. Wänke thanked H. Sakai for the work he had done during his term as President, despite the illness he had suffered during this period.

The General Assembly was adjourned at 19:30.

Council Meeting (August 8, 1996)

The first meeting of the **new** Council took place in the China World Trade Center, Room B5, in conjunction with the 30th International Geological Congress, Beijing, China. Highlights of the meeting include:

- welcome by the President, Dr. Gunter Faure, indicating an optimistic and busy future for the IAGC,
- discussion of the status of Working Groups that seemed to be inactive (Geochemistry of Heath and Disease, Extraterrestrial Geochemistry),
- unanimous decisions to create the category of Honorary Membership of the IAGC for significant contributions to the IAGC and awarding Honorary Membership to Brian Hitchon, Ernie Angino and Marc Grunenfelder,
- Dr. Ron Fuge, Executive Editor of Applied Geochemistry, has become an ex-officio member of Council,
- limited funding would be made available to enable Council members to attend Council Meetings,
- meetings outside of IAGC Working Groups are now eligible for financial support by the IAGC,
- guidelines for sponsorship of meetings have been prepared and will be send out once approved by Council.

Next Council Meeting:

The next Council meeting will take place on Sunday, October 19, 1997, in conjunction with the GSA Meeting in Salt Lake City, Utah. Contact the Secretary, Mel Gascoyne for details.

The Ingerson Lecture

This year, the Ingerson Distinguished Lecturer Award was presented to Dr. Akimasa Masuda of the Department of Chemistry, University of Electro-Communications, Chofu, Japan. Dr. Masuda, who is well-known for his work on rare-earth element (REE) geochemistry, gave a lecture entitled "Progress Expected in REE Geochemistry" at the 30th International Geological Congress, Beijing, China on August 9, 1996.

Applied Geochemistry

Agreement with Elsevier Science

At its Meeting in Edinburgh on August 28, 1994, the Council decided not to exercise the option for IAGC to become a 50% co-owner of AG with Elsevier Science. In addition, the Council appointed Dr. Gunter Faure to be the Interim Chair of the Publications Committee with the mandate to negotiate a contract with Elsevier Science Ltd. for the continued publication of AG with sponsorship by the IAGC.

Discussions with Mr. Peter Henn of Elsevier began on the following day and ultimately led to a contract signed on March 11, 1996, by Dr. Hitoshi Sakai, President of IAGC and on April 22, 1996, by Dr. Christopher Lloyd, Publishing Director of Elsevier Science Ltd.

The contract which is now in force includes the following provisions:

1. Subscription rates for members will be negotiated for three-year periods based on the actual costs of producing and mailing copies to members. The annual rate for 1996 is $35.00 and $40.00 for 1997. The rate for 1998 will be negotiated separately in 1997.
2. Elsevier will pay an annual royalty of $10,000 to the Treasurer of IAGC, or 8.0% of the net income from institutional subscriptions.
3. Students will receive a 25% discount of the annual subscription rate for members.
4. Corresponding authors will receive 50 free offprints at the time of publication.
5. There will be no page charges to contributors.
6. The Officers and Council of IAGC will appoint the Executive Editor of AG after first presenting the qualifications of the candidate to Elsevier for its agreement.
7. The Executive Editor serves for an initial term of five years and is solely responsible for the papers published in the journal.

8. The page budget will be set annually by Elsevier in consultation with the Executive Editor without imposing limits.
9. Elsevier will provide adequate financial support to the Executive Editor as required for rapid handling of manuscripts. In addition, Elsevier will provide an honorarium commensurate with the commitment of time required to assemble issues of the journal in a timely manner.

Members of the IAGC may obtain a copy of the full text of the contract from the Secretary.

Students Please Note

Make sure you receive the 25% discount on Applied Geochemistry subscriptions when invoiced by Elsevier.

Editor's Report

Applied Geochemistry is thriving and as subscribers will see is increasing in size with a projected 850 pages in the current volume. The topics covered represent the breadth of the field. Applied Geochemistry has improved its impact factor rating from 0.917 in 1994 to 1.288 in 1995, crossing the "magic" 1.0 threshold for the first time.

Issues 1 and 2 in 1995 represented a double issue which carried the papers presented at the 3rd International Conference on Environmental Geochemistry held in Krakow, Poland in September, 1994. Future volumes and thematic issues are planned, including one on lateritic weathering.

During 1995 a total of 108 manuscripts were received, of these 60 have been accepted and for a further six, a final version is still awaited. Eight-five manuscripts were submitted for possible inclusion in the double issue conference volume and 57 were published. To date, in 1996, over 90 manuscripts have been received.

However, some problems have been experienced with the publication schedule. Change of editorial staff at the publishers and some changes in practice have resulted in delays in publication. It seems likely that these problems have now been rectified and it is hoped that issues 5 and 6 will be published before the end of the year.

IAGC Theme Symposium

The IAGC plans to convene its own Symposium at the Annual Meeting of the Geological Society of America on October 21, 1997, entitled "Trace Methods in the Environment: Sources, Transport and Fate - A Tribute to Ernest E. Angino". (Dr. Angino was awarded Honourary Membership of the IAGC at the Second Council Meeting in Beijing in August, 1996, for his services as Treasurer to the IAGC fro 1980 to 1994). For more details, please contact either Dave Long or Gunter Faure (see addresses on P 8.)

Activities of Working Groups

1. **Global Geochemical Mapping**
   (A.G. Darnley)

The major product so far of the working group on Global Geochemical Baselines has been the report, "A Global Geochemical Database for Environmental and Resource Management: Recommendations for International Geochemical Mapping" (UNESCO Earth Science Report 19, Paris). It was out-of-print within 3 months of release in 1995. A further 2000 copies (with minor revisions) have been printed in 1996. The report is attracting attention, attested by the fact that the UN Committee on Natural Resources has referred its message to the UN Economic and Social Council (ECOSOC). At its July 1996 session in New York, ECOSOC accepted-in-principle the report's recommendations concerning the need for the establishment of a global geochemical database as a matter of some urgency. Within the next few months the means of organizing and financing implementation will be discussed at a meeting of interested UN agencies. These are expected to include FAO, WHO, UNEP, IAEA and UNESCO. Potential scientific participants should keep in touch.

2. **Water-Rock Interaction**
   (W.M. Edmunds)

Plans for the Ninth Symposium on Water-Rock Interaction (WRI-9) in Taupo, New Zealand, 1998 March 30 - April 3, are well advanced. A First Circular has been issued by the Secretary General, Brian Robinson. Full details can be found under 'IAGC-Sponsored Meetings in 1997' on page 8 of this Newsletter.

International Association of Geochemistry and Cosmochemistry

November, 1996

LETTER FROM THE PRESIDENT

As I begin my tenure as President of the International Association of Geochemistry and Cosmochemistry I would like to communicate to you some thoughts I have about the challenges that lie ahead. It seems to me that our Association has the opportunity to contribute significantly to the support of geochemistry and cosmochemistry on a global scale. We are prepared to do so by means of our Working Groups, our journal APPLIED GEOCHEMISTRY, and by offering individual memberships in the Association to all terrestrial and extraterrestrial geochemists of the world.

The Working Groups are the backbone of the IAGC because they organize meetings on topics of wide interest that attract large numbers of geochemists. The participants at these meetings benefit from the formal presentations and from discussions with their colleagues at informal gatherings. The progress of science requires communication. The meetings and symposia organized by the Working Groups are our way to stimulate progress in geochemistry and cosmochemistry.

The Association also facilitates scientific communication by means of APPLIED GEOCHEMISTRY (AG) which we now sponsor and for which we have editorial responsibility. **I expect that AG will become the premier journal in environmental geochemistry and that it will attract a growing number of high-quality papers in this large and important subject.** The Association will receive a substantial annual royalty from Elsevier Science Ltd. based on income from institutional subscriptions. These funds will enable us to support meetings of our Working Groups even better than in the past. Therefore, the Association and its Working Groups will benefit as the number of institutional subscribers grows. **If your institution does not yet have a subscription to APPLIED GEOCHEMISTRY, please urge your librarians to subscribe now.**

Last but not least, the Association offers individual memberships to professional geochemists in all relevant areas of specialization, be they terrestrial or extraterrestrial. Membership in the Association qualifies individuals to receive our journal at a reduced rate and facilitates their affiliation with one or several of our Working Groups. In addition, the role the Association can play on the world stage depends on its membership. At the present time, the geochemists of the world are fragmented into many small societies based on nationalities or subject areas. The International Association of Geochemistry and Cosmochemistry recognizes no national borders and includes all aspects of our science. Therefore, it seeks to unite the geochemists of the world in order to represent their interests before international bodies, such as the International Union of Geological Sciences.

There are other challenges and opportunities that confront us and I solicit your advice on these. For example, we would like to support research by graduate students at universities and encourage them to attend the meetings of our Working Groups. We have also considered sponsoring scientists who agree to lecture at universities in developing countries. Another proposal we have discussed is that the Association, in concert with Elsevier, may subsidize institutional subscriptions to AG at a limited number of universities in developing countries. The implementation of such proposals is limited by our ability to pay for them, which brings me back to the start of my letter.

In order to be effective in supporting geochemistry around the world, the Association needs money. We can increase our income by recruiting new members and by increasing the number of institutional subscriptions. My goal as President will be to double our membership, to strengthen our journal, and to support our Working Groups to allow them to function effectively.

Please do not hesitate to contact me by e-mail, fax, or regular mail to discuss the opportunities that confront us. I will do my best to respond promptly and hope to hear from you soon.

Gunter Faure

At the invitation of Tomas Paces (WRI-1, Prague 1974) a business meeting of WRI was held in Prague in early July 1996 which was attended by most of the committee members comprised of former WRI Secretaries General. This meeting reviewed the achievements of WRI over the past 24 years since Don White and others launched the idea of this working group. It was agreed that the WRI formula was still valid within the context of geochemistry as a whole not least because it offers the focus for all aspects of water-rock interaction/hydrogeochemistry to be addressed within a single forum covering the wide range of relevant fundamental and applied science. The venue of WRI meetings is also important and WRI-9 in Taupo, New Zealand will be no exception. A decision was made to invite Italy (Cagliari) to host the first meeting of the new millennium (2001).

3. **Thermodynamics of Natural Processes**
   (G. Kolonin)

A large group of TNP Working Group members took part in the 6th Goldschmidt Conference (in Heidelberg, Germany, April 1996), many of whom took part in the last TNP-2 symposium in Novosibirsk. It was a useful opportunity to get together with international colleagues to discuss future plans.

During the Goldschmidt Conference, contact was made with Prof. Schott, the organizer of the 8th Goldschmidt Conference in Grenoble, France, 1998 and it was suggested to arrange a Symposium of Topical Session "Thermodynamics of Sulfides" (together with the Task Group of Geothermodynamic Data of CODATA). A draft of the program will be sent to Prof. Schott after contacts with other experts in this area.

During NATO ASI in July 1996 initiative letters to Dr. Nordstrom (USGS, Boulder), Dr. Wesolowsky (Oak Ridge NL) and Dr. Hemley (USGS, Reston) were sent out with suggestions to organize the TNP-3 Symposium in the USA as a satellite of the 5th International Symposium on Hydrothermal Reactions (Tennessee, June 1997) or the 7th Goldschmidt Conference (Tucson, July 1997).

IAGC MEMBERS

Is your country registered as a National Member of the IAGC? Currently only the following are fully paid-up, voting National Members: Australia, Canada, China, Czech Republic, Finland, Germany, Hungary, Italy, Japan, Norway, Russia, Switzerland, United Kingdom. However, our ordinary members are derived from as many as 45 different countries!

A National Member is an organization such as a committee, society or academy of a country that is designated by the IAGC as the official representative of geochemists in that country. Annual dues to be paid by that organization depend on the number of geochemists represented but start out at $60 per year.

Fully paid-up National Members have the final authority and decision-making power of the IAGC and vote on all business activities at the General Assembly held every four years.

If you would like your country to have international representation in geochemistry by becoming a National Member of the IAGC, contact the Secretary, Dr. Mel Gascoyne (e-mail: gascoyne@aecl.ca or see address on P. 9) for further details.

Upcoming IAGC-Sponsored Meetings

◊ ***IAGC Symposium: Trace Metals in the Environment; Sources Transport and Fate - A Tribute to Ernest E. Angino***
At the GSA Meeting, Salt Lake City, Utah, U.S.A.
1997 October 21
Contact: D.T. Long
Department of Geology
Michigan State University
East Lansing, MI 48824-1115
Fax: 1-517-353-8787
e-mail: 14790dtl@msu.edu

◊ ***5th Int. Symp. on Hydrothermal Reactions***
1997 July 20-24
Gatlinburg, Tennessee, U.S.A.
Contact: D.A. Palmer, President ISHR '97
Oak Ridge National Laboratory
P.O. Box 2008
Oak Ridge, TN 37831-6110
Fax: 1-423-574-4961
e-mail: ddp@ornl.gov

◊ ***2nd Int. Symp. on Applied Isotope Geochemistry***
1997 - to be announced
Contact: A. Raheim, IFE.
P.O. Box 40, N-2007 Kjeller, Norway
Fax: 47-63-81-55-53

◊ ***4th Int. Symp. on Environmental Geochemistry***
1997 October 5-10
Vail, Colorado, USA
Contact: R.C. Severson or L.P. Gough
US Geological Survey, DFC,
Box 25046, MS 973
Denver, Colorado 80225, USA
Fax: 1-303-236-3200
e-mail: iseg@helios.cr.usgs.gov

◊ ***WRI-9, 9th Int. Symp. on Water-Rock Interaction***
1998, March 30 - April 3
Taupo, New Zealand
Contact: Dr. Brian Robinson
Wairakei Research Centre
P.B. 2000, Taupo, New Zealand
Fax: 64-7-374-8199
e-mail: wri-9@gns.cri.nz

Other Meetings of Interest

◊ ***Geofluids II, 2nd Int. Conf. on Fluid Evolution, Migration and Interaction in Sedimentary Basins and Orogenic Belts***
1997 March 10-14
Belfast, Northern Ireland
Contact: Geofluids II
Dept. of Geology
The Queen's University
Belfast BT7 1NN
Northern Ireland, UK

◊ ***34th Ann. Mtg. Clay Minerals Society***
1997 June 15-21
Ottawa, Canada
Contact: Dr. H. Kodama
Agriculture Canada CEF
Ottawa, Ontario, Canada K1A 0C6
Fax: 613-995-1823
e-mail: kodama@nccot.agr.ca

◊ ***7th Ann. V.M. Goldschmidt Conf.***
1997 June 2-6
Tucson, Arizona, U.S.A.
Contact: Dr. M.J. Drake
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Addresses of Executive and Council (1996-2000)

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