International Association of Geochemistry and Cosmochemistry

Newsletter

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Contents

Council meeting highlights 1992-08-25
General Assembly
Council meeting highlights 1992-08-27
Academician Valery Barsukov
Applied Geochemistry
Membership List
Publications List
IAGC-sponsored meetings
Other meetings of interest
Addresses of new Executive and Council
Addresses of Working Group Chairmen
Farewell from Secretary
Publications of interest
Happy Birthday IAGC!
Collection of IAGC dues

Council meeting highlights 1992-08-25

The final meeting of the 1989-1992 Council took place at the Kyoto International Conference Centre during the 29th International Geological Congress. The President reported the sad news of the very recent death of Dr. Barsukov, a former President of IAGC (see Obituary elsewhere in this Newsletter). The Minutes of the 1991-09-15 Council meeting were approved as distributed.

Progress has been slow on finalizing details of the new Vernadsky Medal, but it now appears that it can be struck in the CIS most expeditiously. The new Council will complete this matter.

The Secretary explained the reason why he could not let his name stand again as Secretary after having been accepted by the Nominating Committee. Following discussion, and according to the Statutes, Dr. Mel Gascoyne was nominated as Secretary-elect in place of Dr. Hitchon.

The report of the Treasurer was presented by Dr. Hitchon. A copy of the report can be found in the report on the General Assembly, elsewhere in this Newsletter. The most recent financial status report at 1992-06-30 was accepted and is shown below.

♦ ***Statement of Income and Expenses***
January 1, 1992 to June 30, 1992

Beginning balance, January 1, 1992	$56,369.06
Income:	
Member dues	$ 1,010.00
National member dues	1,854.50

Interest on investments	887.65
Total income	3,752.15
Total assets:	$60,121.21

Expenses:

Postage	$ 57.07
Secretarial and accounting	215.00
Supplies	6.48
Pergamon Press (AG Supplement 1)	6,000.00
Geochemistry of the Earth's Surface	2,000.00
Goldschmidt Lecture - Ingerson Fund	936.54
Bank charges	22.70
Total expenses	9,237.79
Cash balance June 30, 1992	$50,883.42
Certificate of Deposit	$11,242.13
Chequing account	15,270.14
Ingerson fund	11,521.40
Journal Sinking Fund	12,849.75
	$50,883.42

The report of the Publications Committee was also presented by Dr. Hitchon, and some details from it can be found elsewhere in this Newsletter under Applied Geochemistry.

Council agreed that the next Ingerson Distinguished Lecture will be given at the next Goldschmidt Conference, to be held in Edinburgh, Scotland, in the summer of 1994; next Council to select the speaker.

The meeting concluded with a review of the agenda and procedures for the General Assembly.

General Assembly

The General Assembly of IAGC convened at 18:00 h on 1992-08-26 in Room B-2 of the Kyoto International Conference Hall, Kyoto, Japan, during the 29th International Geological Congress. The President (Dr. H. Wanke) called the meeting to order, and after introducing the Executive called for approval of the report of the previous General Assembly held in Washington, DC, USA on 1989-07-14 (previously distributed to National Members and reported in Newsletter 23). The report was approved unanimously, and the Secretary having received no notice from the National Members, and their being no comments from the floor, there was no business arising.

The President then reported on the activities of the Association over the period 1989-1992, the main points being summarized below.

IAGC, partly through its working groups, cosponsored the following international scientific meetings and gave financial support to seven of these meetings.

- V.M. Goldschmidt Conference, May 2-4, 1990, Baltimore, Maryland, USA
- 15th General Meeting of the International Mineralogical Association, June 28-July 3, 1990, Beijing, People's Republic of China
- Second International Symposium on Geochemistry of the Earth's Surface and of Mineral Formation, July 2-8, 1990, Aix-en-Provence, France
- International Symposium on Geochemical Prospecting, August 29-31, 1990, Prague, Czechoslovakia
- International Volcanological Congress, September 2-8, 1990, Mainz, Germany
- 7th International Conference on Geochronology, Cosmochronology and Isotope Geology, September 24-29, 1990, Canberra, Australia
- V.M. Goldschmidt Conference, May 8-10, 1992, Reston, Virginia, USA
- Seventh International Symposium on Water-Rock Interaction, July 13-18, 1992, Park City, Utah, USA
- 29th International Geological Congress, August 24-September 3, 1992, Kyoto, Japan

IAGC also cosponsored several symposia at the 29th IGC.

The Ingerson Distinguished Lecturer at the 1992 V.M. Goldschmidt Conference was Dr. A.A. Levinson, University of Calgary, Calgary, Alberta, Canada. His talk was titled "Age, Origin and Emplacement of Diamonds: Application to Exploration".

While IAGC was able to obtain financial support for its congresses and meetings from UNESCO in the past, no such support was received for 1990 and 1991. For 1992, IAGC did receive UNESCO support for the Second International Symposium on Thermodynamics of Natural Processes to be held September 9-13, 1992 in Novosibirsk, Russia.

The lack of travel funds for Council members caused the cancellation of the 1990 Council meeting in Canberra, Australia; all business was transacted by postal ballot. The 1991 Council meeting was held in conjunction with the Second International Symposium on Environmental Geochemistry in Uppsala, Sweden, September 16-19. Only five Council members attended. To assist the Executive in making the decision as to whether to

cancel a Council meeting, a housekeeping modification to the Statutes will be presented to the assembly later in the meeting.

IAGC will create a medal for outstanding scientific contributions in geochemistry and cosmochemistry; this medal will be named the Vernadsky medal in honour of the great Russian geochemist, and we are in the process of enquiring about the costs of production.

Finally, the President thanked the Council for their hard work and support during his term as President.

The Secretary (Dr. Brian Hitchon) stated in his report that in addition to normal secretarial duties and the preparation of agendas and minutes of Council meetings, two Newsletters were compiled and published. For 1992 the Individual Member dues were also handled by his office and the entire mailing system brought current. At 1992-06-30 there were 538 paid-up Individual Members from 47 countries. He noted, as an aside, that the count for countries from which Individual Members came is uncertain due to recent events in the former USSR and Yugoslavia; perhaps there were as many as 50 countries! He noted his intention to resign as Secretary after having served in that position for eight years. Before turning over the IAGC archives and active files to the new Secretary, a Newsletter, a revised copy of the Statutes, a current Membership List and a preliminary list of IAGC publications will be completed. The collection of individual member dues and subscriptions for Applied Geochemistry will be returned to Pergamon.

In his additional capacity as Executive Editor of Applied Geochemistry, Dr. Hitchon reported that the journal was doing very well, with all manuscripts at Pergamon for volume 7 (1992) and for the first two issues of volume 8 (1993). Two supplements were edited, the first (Geochemistry of Radioactive Waste Disposal: a French Contribution) was published in early 1992, and the second (Selected Papers from the Second International Symposium on Environmental Geochemistry, Uppsala, Sweden, 1991-09-14/20) is due out in the fall of 1992. Dr. Hitchon informed the assembly that he had tendered his resignation as Executive Editor early in 1992 and the Publications Committee had appointed Dr. Ron Fuge, University College of Wales, as the new Executive Editor, to take effect with volume 9. Finally, the Publications Committee and Pergamon Press have set the subscription fees for Individual Members of IAGC for Applied Geochemistry for 1993 at $22 US, a modest increase. Supplement 2 will be available to IAGC members for $12 US, and the institutional rate for 1992 will be $292 US.

In the absence of the Treasurer (Dr. E.E. Angino) the Secretary presented the main changes in the financial status of IAGC at an end-of-year basis, summarized below.

	1989	1990	1991
INCOME			
National Members	4,509	2,705	5,167
Individual Members	7,062	5,945	5,214
IUGS	-	-	-
UNESCO	-	-	-
Other	2,863	3,051	4,688
	14,434	11,701	15,069
EXPENSES			
Support symposia etc.	7,405	9,000	7385
Office	797	741	567
	8,202	9,741	7,952
Excess Income over Expenses	6,232	1,960	7,117
Cash balance at year-end	47,292[+]	49,252[+]	56,369[+]

[+]Journal Sinking Fund is $7,217.53 (1989), $9,375.44 (1990), $12,623.55 (1991)

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

The President then briefly outlined the need for a designated quorum for Council meetings, alluded to in his Presidential

report. On a motion from Hungary, seconded by Japan, the meeting approved unanimously the addition of the statement *A quorum for a meeting of Council shall be five members of the Council* to Section IIB2 of the Statutes.

The Report of the Nominating Committee (Chairman, Professor S. Moorbath) was presented by the President. The Secretary noted that he had received no comments from National Members on the slate sent to them previously. Accordingly, it was proposed by Hungary and seconded by Russia that the report of the Nominating Committee be accepted and the Council duly elected for the period 1992-1996. Carried unanimously.

The 1992-1996 IAGC Council:

PRESIDENT: Hitoshi Sakai, Yamagata University, Yamagata, Japan
VICE-PRESIDENT: Gunter Faure, The Ohio State University, Columbus, Ohio, USA
SECRETARY: Mel Gascoyne, Atomic Energy of Canada Ltd., Pinawa, Manitoba, Canada
TREASURER: Ernest E. Angino, University of Kansas, Lawrence, Kansas, USA
PAST-PRESIDENT: Heinrich Wanke, Max Planck Institut fur Chemie, Mainz, Germany

COUNCILLORS:
A.J. Erlank, University of Cape Town, Rondebosch, RSA
S.V. Grigorian, Academy of Sciences, Yerevan, Armenia
R. Harmon, National Environment Research Council, Nottingham, UK
P. Jakeš, Geological Survey, Prague, Czechoslovakia
M. McCulloch, Australian National University, Canberra, Australia
E.R. Neumann, Mineralogisk-Geologisk Museum, Oslo, Norway
J.R. O'Neil, University of Michigan, Michigan, USA
M. Ozima, Osaka University, Osaka, Japan
H. Palme, Max Planck Institut fur Chemie, Mainz, Germany
T.M. Seward, Institute fur Mineralogie und Petrographie, Zurich, Switzerland

There being no other business the meeting was adjourned at 19:15.

Council meeting highlights 1992-08-27

The first meeting of the new Council took place at the Kyoto International Conference Centre during the 29th International Geological Congress. After ascertaining that the meeting was quorate, the President called the meeting to order. The first item of business was the introduction of the new Council members. In the absence of the Secretary (Dr. Gascoyne) it was agreed that Dr. Hitchon (former Secretary) act as Rapporteur.

Council expressed concern at the paucity of National Members present at the General Assembly, despite adequate notice It was agreed to flag this matter for attention nearer the time of the next General Assembly (Beijing, PRC, 1996).

Dr. Hitchon reported on the procedure for transition to the new Secretary. The archives and active files would be transferred after completion of minutes of both Council meetings and the General Assembly, together with the publication of a Newsletter, Membership List, Publications List, and revised Statutes. Deadline for completion of the transfer was the end of October 1992.

There was some general discussion on activities of the working groups, and the President agreed to correspond with two of the working group Chairmen where the Council perceived there were problems. Council also agreed to support the Working Group on Extraterrestrial Geochemistry to the extent of $2000 US and to cosponsor their next meeting with the Meteoritical Society, to be held in Prague, Czechoslovakia in 1994.

Since the death of Dr. Ivan Barnes, IAGC had been without a liaison representative to IUPAC. Council agreed that the Secretary accept this position as one of his duties.

The IMA have asked IAGC to co-convene some symposia at their forthcoming meeting in Pisa, Italy, in 1994. IAGC agreed to co-convene two symposia: Geochemical modelling of magmatic processes (co-convenor Dr. R. Harmon) and High pressure environments -- Earth mantle (co-convenor: Dr. A. Hoffmann).

In view of the imminent striking of the Vernadsky Medal, Council established a Vernadsky Medal Committee to:
(1) develop guidelines for the selection of recipients; and
(2) nominate possible recipients for the medal. The committee comprises Dr. H. Wanke (Chairman) and Dr. R. Harmon from Council, plus three others to be selected. The committee is to report to Council for ratification of the guidelines and nominations.

Council discussed at some length the dual need for promoting the activities and benefits of membership in IAGC, and the desire for closer liaison with 'sister' organizations such as IMA and The Geochemical Society. It was agreed to pursue both

matters diligently in the near future. The meeting concluded with a brief discussion on the need for a promotional brochure on IAGC.

Status of Individual Members by country at 1992-08-31:

Australia	15
Austria	3
Belgium	4
Bolivia	1
Brazil	8
Cameroon	1
Canada	52
Colombia	2
Costa Rica	1
Czechoslovakia	1
Denmark	5
Egypt	1
Eire	1
Finland	2
France	21
Germany	19
Greece	1
Iceland	2
India	3
Israel	4
Italy	8
Japan	17
Korea (South)	10
Mexico	3
Monaco	1
Netherlands	7
New Zealand	6
Norway	4
PRC	6
Portugal	1
Russia	1
Saudi Arabia	2
Senegal	1
South Africa	4
Spain	6
Sweden	11
Switzerland	9
Taiwan	1
United Kingdom	37
USA	262
Venezuela	1
Viet Nam	1
Yugoslavia	2
TOTAL:	548

Academician Valery Barsukov

It is with great sadness that we report the death of Academician Valery Barsukov (President of IAGC 1980-1984).
Valery L. Barsukov was born on March 14, 1928 in Moscow, Russia into a family of agricultural scientists. Since early childhood he was fond of technical things - even as a child he had selflessly 'projected' the most fantastic flying objects and was enormously happy when during World War II he was given the responsibility of the tractor-man at one of the agriculture farms in Siberia. He entered the Moscow Geological Prospecting Institute (MGPI) and his first scientific publication while still a student was devoted to the origin of the smoky colour of quartz. After graduation from this Institute he was invited to the Vernadsky Institute of Geochemistry and Analytical Chemistry by Academician A.P. Vinogradov and since 1951 his life was fully connected with this Institute.

The theme of his PhD was the determination of conditions for the formation of quartz-cassiterite deposits in granites of the Russian Far East. For many years Valery spent the summers on geological expeditions in the Priamur and Khabarovsk regions. It was during these expeditions and in subsequent papers that he developed concepts for geochemical prospecting for casseterite deposits, later proved by drilling data. Tin geochemistry turned out to be his first and lasting passion. Later, there were works on geochemistry of boron, on fluorine, and other ore elements in hydrothermal processes. More recently his interests lay in the investigations of extraterrestrial materials, comparative planetology, oceanic bottom rocks, earthquake prediction and problems of ecology, all of which were closely connected with high-level modern technology. Valery, however, always returned to his young aspirations.

From 1980 to 1984 he was President of IAGC and actively changed the direction of the Association; new working groups were organized during his tenure.

Apart from all this, Valery was an excellent geologist and had a great sense of comradeship. He was a very sociable person, loved friends, and was the 'soul' of many parties, both Russian and international. He played the guitar and had a great number of sincere friends not only in Russia but in many countries of the world.

Applied Geochemistry

Change of Executive Editor (volume 9 onward)

The task of Executive Editor of a new journal is challenging and very rewarding. Applied Geochemistry is now well established with a steady flow of interesting papers in a wide range of subjects.

After eight years as Executive Editor it is time to move on to other challenges and transfer leadership to new hands. The Publications Committee (Chairman: Professor A.A. Levinson) has appointed Dr. Ronald Fuge (University of Wales, Aberystwyth) as the new Executive Editor. Effective immediately all new manuscripts should be submitted to Dr. Fuge for processing.

I wish to take this opportunity to thank the many friends I have met, in person and through correspondence in connection with the journal and who have supported my efforts over the past eight years. Finally, I wish Ron Fuge the best of luck in his new position.

Brian Hitchon, Executive Editor

Membership List

Enclosed with this Newsletter is the 1992 Membership List. All corrections should be sent to the new Secretary, Dr. Mel Gascoyne, Atomic Energy of Canada Ltd., Pinawa, Manitoba, R0E 1L0, Canada.

Publications List

A current IAGC Publications List is being prepared. It will be forwarded to all members as soon as available.

IAGC-sponsored meetings

♦ ***Second International Symposium on Thermodynamics of Natural Processes (TNP-2)***
1992-09-13/20
Novosibirsk, Russia
Contact: Dr. G. Shvedenkov, Secretary TNP-2, United Institute of Geology, Geophysics and Mineralogy, Novosibirsk 630090, Russia. Fax: (3832) 356534; Telex: 133 123 KORA SU.
Sponsor: IAGC Working Group on Thermodynamics of Natural Processes, the International Mineralogical Association (Working Group on Mineral Equilibria) and the Siberian Branch of the Russian Academy of Sciences (Novosibirsk).
Comments: The symposium is designed to give all scientists studying thermodynamics of natural processes in geology an opportunity to present and discuss the most recent results on: (1) Thermodynamic data on minerals, fluids, gases and mineral reactions; (2) Thermodynamic models of geochemical processes; and (3) Applications of thermodynamic models to exploration and mineral processing. There will be both oral and poster sessions.

♦ ***Third International Symposium on Geochemistry of the Earth Surface (GWDS-3)***
1993-08-2/7
University Park, Pennsylvania, USA
Contact: Professor L.R. Kump (Secretary-General, GWDS-3), College of Earth and Mineral Sciences, The Pennsylvania State University, 210 Deike Bldg., University Park, Pennsylvania 16802, USA. Telephone: 814-863-1272; Fax: 814-865-3191.
Sponsor: IAGC Working Group on Weathering, Sedimentary and Diagenetic Processes.
Comments: Scientific sessions include: 1. Sediments, paleosols, and paleo-CO_2; 2. Geochemical and isotopic record of continental weathering; 3. Weathering and paedogenesis at the watershed scale; 4. Global biogeochemical cycles; 5. Early diagenesis of sediments; 6. Kinetics of mineral growth and dissolution; 7. Organic geochemistry; 8. Environmental geochemistry. Central Pennsylvania has much to offer those interested in surficial geochemistry and there will be a field trip August 5-6. The GWDS-3 meeting comes directly before the SEPM Midyear Meeting, also to be held at the Pennsylvania State University, with the theme 'The Stratigraphic Record of Global Change: Climate, Sea Level, and Life'.

♦ ***V.M. Goldschmidt Conference***
1994-08-28 to 09-01
Edinburgh, Scotland

♦ ***16th General Meeting of the International Mineralogical Association***
1994-09-3/8
Pisa, Italy
Contact: Stefano Merlino, Organizing Committee IMA '94,

Dipartimento di Scienze della Terra, Università di Pisa, Via S. Maria 53, I-56126 Pisa, Italy
Sponsors: Società Italiana di Mineralogia e Petrologia, European Mineralogical Union, Consiglio Nazionale delle Ricerche
Comments: The provisional program includes invited plenary lectures and several symposia running in parallel, which will cover a wide range of topics in mineralogy (including ore and applied mineralogy), petrology and geochemistry. Contributed oral and poster communications will be accepted. Joint symposia and other scientific activities will be co-sponsored by sister organizations including the International Association of Geochemistry and Cosmochemistry and the International Association of Volcanology and Chemistry of the Earth's Interior. There will be a number of Short Courses and Workshops prior to and/or after the General Meeting. Exhibitions of scientific equipment, books and minerals will be arranged. All registered participants will receive a copy of the book of abstracts at the meeting. No proceedings volume will be published. Field excursions will include (1) High pressure metamorphism in the western Alps; (2) Orogenic peridotites from the western Alps and northern Apennines; (3) Petrology, geology and ore deposits of the Paleozoic basement of Sardinia; (4) Ore deposits and marble quarries of the Apuan Alps; (5) Pegmatites of the central Alps and their minerals; (6) Recent volcanism in the Neapolitan area (Vesuvius, Ischia and the Phlaegrean Fields); (7) Recent active volcanoes of Sicily: Aeolian Islands and Etna; (8) Stones: from quarries to monuments; (9) Mineral resources of southern Tuscany: historical heritage and ore-forming processes; (10) Zeolites of eastern Sicily; and (11) The crystalline basement of the southwestern Alps.
Deadlines: The Second Circular will be distributed in March 1993.
Submission of Abstracts: March 1994

♦ ***Fourth International Symposium on Geochemical Prospecting***
1994
Irkutsk, Russia
Contact: Dr. P.V. Koval, Irkutsk Institute of Geochemistry, Irkutsk 33, Russia.
Sponsor: Includes IAGC Working Group on Global Geochemical Mapping.

♦ ***Meteoritical Society and IAGC Working Group on Extraterrestrial Geochemistry***
1994
Prague, Czechoslovakia

Other meetings of interest

♦ ***Geofluids '93 Conference***
1993-05-04/07
English Riviera Centre, Torquay, Devon, England
Contact: Steve Lawrence, Quad Consulting Ltd., The Courtyard, Furlong Road, Bourne End, Bucks SL8 5AJ, England. Telephone 0628 810700; Fax: 0628 851184; Telex: 846148 QUADCO G.
Comments: The conference will cover the topics: 1. Origin and nature of fluids; 2. Controls on fluid flow; 3. Fluid evolution and deposition; 4. Integration of techniques and approaches. There will be pre- and post-conference field trips in England, Ireland and France, an exhibition for commercial exhibitors, research forums for universities and research groups, and workshops on basin modelling, log analysis etc.

♦ ***International Fair with Congress on Geosciences and Geotechnics - "Protecting the Earth - Challenges to Science and Technology"***
1993-05-05/08
Cologne, Germany
Contact: KölnMesse, Messe- und Ausstellungs- Ges.m.b.H. Köln, Messeplatz 1, Postfach 21 07 60, W-5000 Köln 21, Germany; Telephone: 2-21-821-0; Telex: 8 873 426 mua d; Fax: 2-21-821-2574
Comments: Topics will include: 1. Environmentally conscious utilization of resources; 2. Acquisition of information; 3. Sanitizing and landscaping; 4. Preventive action and environmental protection measures; 5. Environmental politics and its acceptance.

♦ ***International Conference of the Society for Environmental Geochemistry and Health***
1993-07-25/27
New Orleans, Louisiana, USA
Contact: SEGH Conference, PO Box 19737, New Orleans, Louisiana 70179-0737, USA

♦ ***34th IUPAC Congress***
1993-08-15/20
Beijing, PRC
Contact: Professor Xingqi Song, Secretary-General, c/o Chinese Chemical Society, PO Box 2709, Beijing 100080, China. Telephone: 2568157; Telex: 20035 CAST CN c/o CAST; FAX: 86-1-2568157.

Comments: The scientific programme will be mainly devoted to eight sections as follows: 1. Life science and organic chemistry; 2. Chemistry for a better environment and analytical chemistry; 3. Advanced materials and inorganic chemistry; 4. New polymer materials and macromelecular science; 5. Petrochemistry, fossil fuels chemistry and catalysis; 6. Physical chemistry; 7. Chemical information and computers in chemistry; and 8. Popularization and education of modern chemistry.
Sponsor: Chinese Chemical Society.

♦ ***16th International Geochemical Exploration Symposium and the 5th Chinese Exploration Geochemistry Symposium***
1993-09-1/2 (5th CEGS)
1993-09-3/5 (16th IGES)
Beijing, China
Contact: Mr. Xu Li, Deputy General Secretary, 16th IGES Office, 26 Bai Wan Zhuang Dajie, Beijing 100037, China, Telephone: 86-1-832-3268; Fax: 86-1-831-0894
Sponsors: The Association of Exploration Geochemists; The Geological Society of China; The China Association for Science and Technology.
Comments: Premeeting workshops include: 1. Progress in environmental geochemical exploration (Dr. I. Thornton, Leader); 2. International geochemical mapping (Dr. A.G. Darnley, Leader); 3. Analytical methods in exploration geochemistry (Dr. G.E.M. Hall, Leader); 4. Applied biogeochemical prospecting (Drs. Colin E. Dunn, G.E.M. Hall and R. Scagel, Leaders). In addition, a short course on Geoanalysis in environmental geochemistry, geochemical mapping, and mineral exploration, with Professor Qian Desun will be given. Excursions to various sites in and around Beijing will also be offered.

♦ ***Eighth Congress of the Association of European Geological Societies***
1993-09-19/26
Budapest, Hungary
Contact: I. Vetö, CAEGS-8 Organizing Committee, Hungarian Geological Society, H-1027 Budapest Föu. 68.I.102, Hungary. Telephone: (33-1)201-91-29; Fax: 36-1-156-1215; Telex: MTESZ MFT 22-43-43
Sponsors: The Hungarian Geological Society in cooperation with the Association of Hungarian Geophysicists under the auspices of the Association of European Geological Societies.

Addresses of new Executive and Council

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Farewell from Secretary

After eight years as Secretary it is time to move on. I have made many friends throughout the world through IAGC and wish them and the Association the best of luck in the future. Special good wishes go to Mel Gascoyne, the new Secretary.

Brian Hitchon

Publications of interest

Applied Geochemistry Supplement 1: "Geochemistry of Radioactive Waste Disposal: a French Contribution" Jean-Claude Petit and Mel Gascoyne, editors. A suite of papers dealing with the geochemistry of nuclear waste disposal, particular to France. Available to IAGC members for $10.00US; to non-IAGC members for $34.00US. Send cheque or money order (made payable to IAGC IN TRUST) to Dr. Brian Hitchon, Alberta Research Council, PO Box 8330, Station F, Edmonton, Alberta T6H 5X2, Canada for your copy.

Applied Geochemistry Supplement 2: "Selected papers from the Second International Symposium on Environmental Geochemistry, Uppsala, Sweden, 1991-09-14/20" Topics include: Anthropogenic effects; Geochemical methods and models; Element translocation; Environmental geochemistry and health; Groundwater contamination; Geochemistry and hazardous waste. Publication in fall of 1992. Available to IAGC members for $12.00US; to non-IAGC members for $65.00US. Send cheque or money order (made payable to IAGC IN TRUST) to Dr. Brian Hitchon, Alberta Research Council, PO Box 8330, Station F, Edmonton, Alberta T6H 5X2, Canada for your copy.

Scope 43: "Stable Isotopes, Natural and Anthropogenic Sulphur in the Environment" H.R. Krouse and V.A. Grinenko, editors. This book addresses the important topic of differentiating natural and anthropogenic sulphur in the environment. Explanations on how stable isotopes of sulphur and oxygen have been used to study the origin and transformations of sulphur in ecosystems are provided by international experts. The first two chapters provide an overview of the basic principles of sulphur and oxygen isotope research; experimental techniques are developed in the third and further chapters are devoted to the lithosphere, atmosphere, hydrosphere, pedosphere and biosphere. This volume provides a comprehensive coverage of basic concept as well as first hand experience. John Wiley & Sons, Chichester, UK, 1991 (ISBN 0471-926469).