

# Newsletter

number 24: December 1991

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## 1990 Council meeting highlights

For a variety of reasons, so few Council members were in a position to attend the 1990 Council meeting in Canberra, Australia (September 1990) that it was cancelled. The Secretary prepared the appropriate documents for a meeting by postal ballot, the results of which are highlighted below. The delay in producing this report was necessitated by the desire to include the subsequent report of the Nominating Committee.

Individual Membership in IAGC at 1990-10-31 was 678.

The Treasurer's report at 1990-06-30 was as follows:

◆ *Statement of Income and Expenses*  
*January 1, 1990 to June 30, 1990*

Beginning balance, January 1, 1990 ..... \$47,292.42

**Income:**

Member dues ..... \$ 224.00  
National member dues ..... 1,510.00  
Interest on investments ..... 1,124.91  
Total income ..... 2,858.91  
Total assets: ..... \$50,151.33

**Expenses:**

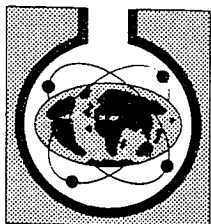
Postage and duplication ..... \$ 42.20  
Tax preparation ..... 102.00  
Secretarial and accounting ..... 200.00  
Bank charges ..... 49.42  
IMA meeting ..... 2,000.00  
Total expenses ..... 2,393.62

Cash balance June 30, 1990 ..... \$47,757.71

Certificate of Deposit ..... \$ 9,724.83  
Chequing account ..... 16,778.98  
Ingerson fund ..... 12,126.46  
Journal Sinking Fund ..... 9,127.44  
..... \$47,757.71

Council approved the following disbursements:

For the WRI-7 symposium, Park City, Utah,  
July 1992 ..... \$3,000.00  
For support of Supplement 1 of Applied  
Geochemistry (Geochemistry of High-Level  
Nuclear Waste Disposal: A French  
Contribution) ..... \$6,000.00  
Note: an additional \$4,000.00 was contributed  
by CEA.



For Working Group on Geochemical Prospecting  
 Symposium, Prague, August 1990 . . . . . \$2,000.00  
 For IAVCEI International Volcanological  
 Congress, Mainz, FRG . . . . . \$2,000.00

Activities of the Working Groups were of limited extent in the reporting period. One of the most notable events was the second symposium (GWDS-2) of the Working Group on Weathering, Sedimentary and Diagenetic Processes held at Aix en Provence, France, July 2-8, 1990. There were 150 attendees and the abstracts were published in a special issue of Chemical Geology. The newly elected Chairman for the period 1990 to 1996 is Robert Berner from Yale University. The Secretary-General for GWDS-3 is Lee R. Kump (Pennsylvania State University). GWDS-3 will be organized in the USA in 1993. The committee now comprises: Rafael Rodriguez-Clemente (Secretary-General GWDS-1); Daniel Nahon (Secretary-General GWDS-2); Yves Tardy (Past-Chairman); Lee Kump (Secretary-General GWDS-3). The theme of GWDS remains unchanged.

The Working Group on Geochemical Prospecting held a successful symposium in Prague, Czechoslovakia, August 29-31, 1990, attracting 350 specialists from 40 countries. Among housekeeping topics discussed were a change of name and executive, following the death of Acad. L.V. Tauson. In view of the new focus of the working group, which is now associated closely with IGCP Project 250, the name was changed to Working Group on Global Geochemical Mapping. The new executive is: Co-Presidents: A.G. Darnley (Canada) and P. Koval (USSR); Co-Vice-Presidents: A. Bjorklund (Finland) and F. Mrna (Czechoslovakia); Co-Secretaries: M. Duris (Czechoslovakia) and J. Ridgway (United Kingdom).

The Publications Committee (Chairman, Professor A.A. Levinson) has filled the vacancy on the committee left by the death of Acad. L.V. Tauson by appointing Professor V.K. Lukashev (USSR), who also remains an Associate Editor of Applied Geochemistry. Negotiations with Pergamon Press plc resulted in the individual IAGC member rate being set at \$18.00 US for the period 1990 to 1992. Also agreed was the publication of financially self-supporting supplements, for the first of which IAGC made a \$6000 contribution (see Treasurer's report). Supplement 2 will comprise the proceedings of the Second International Symposium on Environmental Geochemistry, to be held 1991-09-16/19 in Uppsala, Sweden (also the date and location of the 1991 Council meeting).

Council accepted the Report of the Medal Committee, and so the new IAGC medal will be known as the VERNADSKY MEDAL. A sketch of the medal, costs for production, and guidelines for awarding it are in progress.

After considerable correspondence, a Nominating Committee was appointed, as follows:

Professor S. Moorbath (Chairman) (United Kingdom)  
 Dr. D. Lal (India)  
 Prof. N. Sobolev (USSR)  
 Prof. S.R. Taylor (Australia)  
 Dr. G.W. Wetherill (USA)

The Nominating Committee have made their recommendations for discussion at the 1991 Council meeting.

## 1991 Council meeting highlights

Only five members of Council attended the 1991-09-15 meeting held in conjunction with the Second International Symposium on Environmental Geochemistry (Uppsala, Sweden, 1991-09-16/19). One of the items dealt with, in fact, concerned the proposed change in the statutes of IAGC to designate a quorum for Council meetings. Paucity of attendance has become a problem in recent years, with two Council meeting cancellations (Brazil 1988; Australia 1990). While the Executive is empowered to act for Council between General Assemblies, it is clearly desirable for Council to meet on a regular basis with a significant number of members attending, if at all possible.

Decisions relating to the 1990 postal ballot were ratified. The Secretary reported membership as follows, at 1991-07-17:

Australia . . . . .	21
Austria . . . . .	5
Belgium . . . . .	6
Brazil . . . . .	7
Canada . . . . .	64
Colombia . . . . .	2
Costa Rica . . . . .	1
Czechoslovakia . . . . .	2
Denmark . . . . .	6
Egypt . . . . .	1
Eire . . . . .	1
Finland . . . . .	3
France . . . . .	28
Germany . . . . .	19
Greece . . . . .	1
Iceland . . . . .	4
India . . . . .	4
Indonesia . . . . .	1
Iraq . . . . .	1
Israel . . . . .	5
Italy . . . . .	10
Japan . . . . .	26
Korea (South) . . . . .	16
Mexico . . . . .	3
Monaco . . . . .	1
Morocco . . . . .	1
Netherlands . . . . .	9
New Zealand . . . . .	7
Norway . . . . .	6
PRC . . . . .	5
Portugal . . . . .	2
Saudi Arabia . . . . .	1
Senegal . . . . .	1
South Africa . . . . .	6
Spain . . . . .	9
Sweden . . . . .	10
Switzerland . . . . .	11
United Kingdom . . . . .	52

USA	305
Uruguay	1
Venezuela	1
Viet Nam	2
Yugoslavia	2

TOTAL: 669

The Treasurer provided two financial statements, one at 1991-01-01 and a more current one at 1991-06-30

◆ *Statement of Income and Expenses*  
*January 1, 1990 to December 31, 1990*

Beginning balance, January 1, 1990 \$47,292.42

**Income:**

Member dues	\$ 5,944.60
National dues	2,705.00
Interest on investments	3,051.00
Total income	\$11,700.60

Total Assets \$58,993.02

**Expenses:**

Postage and duplication	\$ 98.87
Tax preparation	102.00
Secretary and accounting	405.00
Bank charges	135.15
International Mineralogical Association meeting	2,000.00
Goldschmidt Symposium presentation	1,000.00
International Conference on Isotope Geology - Canberra	2,000.00
Geochemical Prospecting meeting - Prague	2,000.00
International Conference on Volcanology - Mainz	2,000.00
Total expenses	<u>\$ 9741.02</u>

Cash Balance, December 31, 1990 \$49,252.00

Total excess income over expenses for 1990 \$1,959.58

Certificate of deposit	\$10,482.16
Chequing account	16,784.86
Ingerson fund	12,609.54
Journal Sinking Fund	<u>9,375.44</u>
	<u>\$49,252.00</u>

◆ *Statement of Income and Expenses*  
*January 1, 1991 to June 30, 1991*

Beginning balance, January 1, 1991 \$49,252.00

**Income:**

Member dues	\$ 273.00
National dues	3,687.00
Interest on investments	1,113.81
Total income	<u>\$ 5,073.81</u>

Total Assets \$54,325.81

**Expenses:**

Postage	\$ 25.00
Tax preparation and legal	136.00
Secretary and accounting	165.00
Bank charges	36.35
WRI-7 - Park City, Utah	3,000.00
Total expenses	<u>3,362.35</u>

Cash Balance, June 30, 1991 \$50,963.46

Total excess income over expenses for 1991 \$1,711.46

Certificate of Deposit	\$10,482.16
Chequing account	15,946.77
Ingerson fund	13,103.52
Journal Sinking Fund	<u>11,431.01</u>
	<u>\$50,963.46</u>

Agreement between Pergamon Press plc and IAGC resulted in the repatriation of the IAGC membership list and billing for annual dues and subscriptions to Applied Geochemistry to the Secretary. This should streamline the process of invoicing and make the compilation of new membership lists much easier.

Council also approved the report of the Nominating Committee (see separate item in this Newsletter).

New expenditures of funds were approved:

For cosponsorship at the IMA meeting in Pisa, Italy, 1994	\$2,000.00
For the Working Group on Thermodynamics of Natural Processes, Novosibirsk, USSR, 1992-09-13/20 (see elsewhere in this Newsletter for more details)	\$2,000.00

Further, it was agreed to sponsor an IAGC Ingerson Distinguished Lecturer at the next Goldschmidt Conference (1992-05-08/10). Amount to be approved by Executive Committee. To these should be added \$2000.00 for the Third International Symposium on Geochemistry of the Earth Surface (GWDS-3), at Pennsylvania State University, 1993-08-2/7, approved by the Executive Committee 1991-11 (see elsewhere in this Newsletter for more details).

The Publications Committee reported that Applied Geochemistry had submitted to the publisher all the manuscripts for volume 6 (1991) and some for volume 7 as well. Changes were made in the roster of Associate Editors for volumes 7-11 (1992-1996), and Dr. Hitchon will continue as Executive Editor for this same term.

## Proposed 1992-1996 Council

Of the existing Council members, Dr. C.B. Gomes (Brazil) declined to serve another term, and Dr. D. Lal (India), Prof. S. Moorbath (UK) and Dr. F. Mrna (Czechoslovakia) were ineligible under the statutes to serve again. Council approved the following slate for ratification at the next General Assembly (Kyoto, Japan, 1992):

H. Sakai (Japan) President  
G. Faure (USA)\* Vice-President  
B. Hitchon (Canada) Secretary  
E.E. Angino (USA) Treasurer  
H. Wanke (FRG) Past-President

### Councillors

A.J. Erlank (RSA)  
S.V. Grigorian (USSR)  
R.S. Harmon (UK)\*  
P. Jakes (Czechoslovakia)\*  
M. McCulloch (Australia)\*  
E.R. Neumann (Norway)  
J.R. O'Neil (USA)  
M. Ozima (Japan)  
H. Palme (Germany)\*  
T.M. Seward (Switzerland)

\*New members

Individual members are duly notified herewith of the proposed slate according to the statutes (III.A.1). Further, any 15 individual members of IAGC may nominate one or more officers or ordinary members of the Council in writing to the Secretary not less than 60 days prior to the meeting of the General Assembly (Statutes III.A.2). Such nominations must therefore be in the hands of the Secretary (Dr. Brian Hitchon, Alberta Research Council, PO Box 8330, Station F, Edmonton, Alberta T6H 5X2, Canada) by June 25, 1992.

National Members will be served separate notices of the proposed slate.

## General Assembly

To be held in conjunction with the 29th International Geological Congress, Kyoto, Japan, 1992-08-24 to 1992-09-03. The exact date of the General Assembly has still to be fixed. Individual members of IAGC may attend the General Assembly and take part in discussions, but shall have no vote (Statutes II.A.3). All members will be duly notified when complete details are known.

At this time the only proposed change in the Statutes relates to designating a quorum of 5 for Council meetings.

The full agenda will be available to all members prior to the meeting.

Because of the cost involved, IAGC will not have a booth at the International Geological Congress. The matter of having booths at other geochemical meetings in 1992 was deferred to the new Council.

## IAGC-sponsored meetings

### ◆ *V.M. Goldschmidt Conference*

1992-05-8/10

Reston, Virginia, USA

Contact: Donna Ricketts, Conference Coordinator, The Pennsylvania State University, 409 Keller Conference Center, University Park, Pennsylvania 16802-1304, USA. Telephone: 814-863-1743; Fax: 814-865-3749.

Sponsors: Include The Geochemical Society, IAGC, and the European Association of Geochemistry.

Comments: In addition to the technical sessions on a wide variety of topics, the IAGC-sponsored Ingerson Distinguished Lecture will be given by Professor A.A. Levinson on the topic "Age, origin and emplacement of diamonds". Field trips comprise the examination of igneous rocks in the Culpepper Triassic Basin in the Reston area, and one devoted to small drainage basins, specifically their sensitivity to the effects of acid rain.

### ◆ *Seventh International Symposium on Water-Rock Interaction (WRI-7)*

1992-07-09/23

Park City, Utah, USA

Contact: Dr. Y.K. Kharaka, Secretary-General WRI-7, US Geological Survey, MS 427, 345 Middlefield Road, Menlo Park, California 94025, USA. Telephone: (415) 329-4535; Fax: (415) 329-5110.

Sponsor: IAGC Working Group on Water-Rock Interaction.

Comments: Field trips will include: Alta Stock thermal aureole; Yellowstone National Park; Bingham Canyon mine, Barney's Canyon mine and the Great Salt Lake; examination of oil shale deposits, trona and other evaporite and diagenetic minerals Green River Formation, Wyoming; Great Salt Lake; Little Cottonwood Canyon, Utah.

### ◆ *29th International Geological Congress*

1992-08-24 to 09-03

Kyoto International Conference Hall, Kyoto, Japan

Contact: Dr. S. Ishihara, Secretary-General IGC-92, POI Box 65, Tsukuba, Ibaraki 305, Japan.

### ◆ *Second International Symposium on Thermodynamics of Natural Processes (TNP-2)*

1992-09-13/20

Novosibirsk, USSR

Contact: Dr. G. Shvedenkov, Secretary TNP-2, United Institute of Geology, Geophysics and Mineralogy, Novosibirsk 630090, USSR. Fax: (3832) 356534; Telex: 133 123 KORA SU.

strategies leading to a clean environment, to low or non-waste processes and to highest energy efficiency; B. Recent progress in low- and non-waste technologies; C. Clean technologies; D. Chemical methods for the elimination of large-scale environmental pollution and rehabilitation of natural systems; and E. Scientific achievements with the potential to induce substantial changes in chemical science and industry.

◆ *Geofluids '93 Conference*

1993-05

English Riviera Centre, Torquay, England

Contact: Steve Lawrence, Quad Consulting, The Courtyard Ltd., Meadowbank, Furlong Road, Bourne End, Bucks SL8 5AJ, England. Telephone: 0628 810700; Fax: 0628 851184; Telex: 846148 QUADCO G.

Comments: The conference will cover the topic of minerals and hydrocarbon exploration, specifically an integration of efforts to discuss the origin/genesis of aqueous and hydrocarbon fluids, their role in the transport and concentration of economic minerals (including oil and gas) and their contribution to sedimentary basin development.

◆ *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 macromolecular 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.

◆ *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: MTE SZ 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.

## Organic Geochemistry

Organic Geochemistry will be available to members of IAGC, the Organic Geochemistry Division of the Geochemical Society and The Geochemistry Division of the American Chemical Society at a rate of \$150.00US for 1992. It will comprise two volumes (18 and 19) totalling 12 issues. A free sample of the journal and/or subscription can be obtained from:

Miss Agnes Impellittere  
Pergamon Press Inc  
395 Saw Mill River Road  
Elmsford, New York 10523, USA  
or

Mr. Brian Smith  
Pergamon Press plc  
Headington Hill Hall  
Oxford OX3 0BW, England

## Professor Louis H. Ahrens

It is with very considerable regret that we report the death on 1990-09-05 of Professor L.H. Ahrens as the result of a massive stroke. Professor Ahrens was on the founding Council of IAGC (as Vice-President) and became its second President in the term 1972-1977. His researches into diverse aspects of geochemistry are well known and his death marks an important loss to the geochemical community.

## Dr. Juan-Carlos Goni

It is also with regret that we inform you of the passing of Dr. Juan Goni in June 1991. Dr. Goni was a councillor of IAGC from 1972 to 1977 and Vice-President for the 1977-1980 term. Dr. Goni also served as the Chairman of the Working Group Cooperation in Applied Geochemistry until 1989.

## Newsletter Frequency

The frequency of IAGC Newsletters depends on several factors, not the least of which is **NEWS**. If you have information of interest to IAGC members please let the Secretary know (Dr. Brian Hitchon, Alberta Research Council, PO Box 8330, Station F, Edmonton, Alberta T6H 5X2, Canada; Telephone: 403-438-7510; Fax: 403-438-3364)

Newsletters are published only when a reasonable-sized issue can be printed. More frequent Newsletters are therefore up to **YOU**.

Sponsor: IAGC Working Group on Thermodynamics of Natural Processes, the International Mineralogical Association (Working Group on Mineral Equilibria) and the Siberian Branch of the USSR 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: This meeting is presently in the initial planning stages but should prove as equally important as GWDS-1 and GWDS-2. Central Pennsylvania has much to offer those interested in surficial geochemistry and there will be a field trip August 6-7. 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'.

◆ *Fourth International Symposium on Geochemical Prospecting*  
1994

Irkutsk, USSR

Contact: Dr. P.V. Koval, Irkutsk Institute of Geochemistry, Irkutsk 33, USSR.

Sponsor: Includes IAGC Working Group on Global Geochemical Mapping.

## Other meetings of interest

◆ *International Produced Water Symposium*

1992-02-4/7

Catamaran Hotel, San Diego, California, USA

Contact: '92 IPWS Registrar, 655 15th Street NW, #300, Washington, DC 20005, USA. Telephone: 202-639-4396; Fax: 202-347-6109.

Sponsors: American Petroleum Institute, Canadian Petroleum Association, Environment Canada, Gas Research Institute and US Department of Energy, among others.

Comments: Registration is limited to 400 attendees. The objective of this symposium is to provide a forum for the presentation and international publication of peer reviewed research results and case studies related to the characterization, treatment, disposal, and environmental fate and effects of produced waters associated with the production of oil and gas. There will be an opening general session as well as concurrent and poster sessions.

◆ *Eighth Annual US Geological Survey V.E. McKelvey Forum on Energy and Mineral Resources*

1992-02-18/20

Wyndham Greenspoint Hotel, Houston, Texas, USA

Contacts: Jan W. Kernan, BAI, 8700 First Avenue, Silver Spring, Maryland 20910, USA. Telephone: 310-588-4177 or Christine Turner, US Geological Survey, MS 939, Box 25046, Federal Center, Denver, Colorado 80225, USA.

Comments: The 1992 Forum will focus on many aspects of the USGS research in energy resources. Significant results from programs in energy will be presented in oral and poster sessions. A very successful part of the past seven forums has been the opportunity for participants to discuss research problems directly with USGS scientists working on specific topics. The program includes a short course on 1992-02-20 titled "Recent advances in plate tectonics and continental crustal evolution" by Warren B. Hamilton.

◆ *Fifth International Symposium on Solubility Phenomena*

1992-07-08/10

Moscow, USSR

Contact: Dr. K.G. Kravchuk, Symposium Secretary, Fifth International Symposium on Solubility Phenomena, N.S. Kurnakov Institute of General and Inorganic Chemistry, USSR Academy of Sciences, Leninsky Prospect 31, Moscow 117907, USSR. Fax: (7-095)-234-1279).

◆ *Third International Symposium on Analytical Chemistry in the Exploration, Mining, and Processing of Materials*

1992-08-2/7

Sun Hotel, Sandton, RSA

Contact: The Symposium Secretariat, Mintek, Private Bag X3015, Randberg 2125, South Africa. Telephone: 27-11-793-3511; Fax: 27-11-793-2413; Telex: 424867 SA.

Comments: The aim of this symposium is to highlight the importance of analytical chemistry in the production of materials, from the initial stages of exploration and assessment of ores to their beneficiation and, finally, to the refined product. This symposium will be of interest to anyone working in fields related to the evaluation of materials, for example analytical scientists, mineralogists, geologists and geochemists, metallurgists, and chemical and mining engineers. The symposium will be held under the aegis of the International Union of Pure and Applied Chemistry (IUPAC) and sponsored by a number of South African organizations.

◆ *CHEMRAWN VIII: World Conference on Chemistry and Sustainable Development - Towards a Clean Environment, Zero Waste and Highest Energy Efficiency*

1992-09-06/09

Moscow, USSR

Contact: Professor V. Koptuyug, USSR Academy of Sciences, 14 Leninsky Avenue, 117901 Moscow V-71, USSR. Telex: 411964 ANS SU; Fax: 007-095-2302043, 007-095-2302630.

Comments: Plenary sessions and contributed poster sessions will include the following subjects: A. Sustainable development