

International Association of
Geochemistry and Cosmochemistry

Newsletter

number 20 June 1987

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Council meeting, Zurich, Switzerland

The next Council meeting will be held at the Swiss Federal Institute of Technology, Zurich, Switzerland, October 25 and 26, 1987. Individual Members and representatives of National Members are invited to attend the Council meeting as observers; please contact the President for details of time and location of the meeting. If members have items they wish discussed by the Council would they please contact the Secretary as soon as possible so that these items can be placed on the agenda. Highlights of the Council meeting will be given in the next Newsletter (December 1987).

IAGC Statement of income and expenses (US\$)

1986-01-01 to 1986-12-31

Income:

National Member dues	\$ 3,569.00
Individual Member dues	69.56
1986 Membership dues - Pergamon	3,530.00
Interest on investments	988.20
Reimbursed travel expenses, NAS	1,000.00
IUGS 1986 payment	1,500.00
UNESCO payment	4,500.00
Ingerson Bequest, lecture fund	500.00
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	\$15,656.76

Expenses:

Postage and duplication	\$ 138.66
Cambridge meeting	2,812.00
Bank charges	58.73
Secretarial and accounting	150.80

Telex charges	40.00
Pergamon - IAGC history reprints	196.50
1985 tax preparation, Form 990	32.50
UNESCO - Cambridge, Iceland, Perth meetings	4,500.00
IAGC - Cambridge, Iceland, Perth meetings	1,500.00
1000 reprints of article (Episodes)	200.00
Photos - 1986 Council meeting	110.10
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	\$ 9,739.29

Excess income over expenses \$ 5,917.47

Cash balance as of December 31, 1985 \$22,605.21

Excess income over expenses 1986 5,917.47

Cash balance as of December 31, 1986 \$28,522.68

Chequing account 1986-12-31	\$ 9,608.10
Investments	11,414.58
Ingerson lecture fund	7,500.00
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	\$28,522.68

Notes:

Since this statement was prepared, Professor Earl Ingerson has increased his contribution to the Earl Ingerson Distinguished Lecture Fund so that the fund now stands at \$10,000 plus accrued interest. The income from this fund is to be used for travel expenses and a modest honorarium for a distinguished lecturer about every four years at an IAGC meeting.



International Association of
Geochemistry and Cosmochemistry

Current individual membership status

Individual membership in IAGC continues to grow at a very satisfactory and steady rate. The status as of 1987-06-30 is as follows:

Australia	18
Austria	6
Belgium	4
Brazil	9
Canada	70
Denmark	4
Finland	2
France	32
Federal Republic of Germany	10
Iceland	3
India	12
Israel	5
Italy	13
Japan	29
Kenya	3
Korea (S)	4
Liberia	2
Mexico	3
Netherlands	7
New Zealand	7
Nigeria	3
Norway	7
People's Republic of China	8
Senegal	2
South Africa	3
Spain	9
Sweden	9
Switzerland	9
United Kingdom	25
U.S.A.	291
U.S.S.R.	8

The following countries each have one member: Algeria, Colombia, Czechoslovakia, Egypt, Ethiopia, Hungary, Indonesia, Iraq, Pakistan, Philippines, Poland, Portugal, Sri Lanka, Syria, Tanzania, Thailand, United Arab Emirates and Zambia. Membership as of 1987-06-30 stands at 635. This represents an increase of 115 percent over the past two years.

Applied Geochemistry

IAGC's official journal, Applied Geochemistry, is taken by 82 percent of our Individual Members, and the publisher (Pergamon Journals Limited) is "extremely pleased" with the number of institutional (library) subscriptions.

At this time, volume 1 (1986) has been published and all manuscripts for issues 1 to 3 of volume 2 (1987) are in press. As with all new journals, there are some "teething troubles," but good manuscripts come into the Executive Editor at a steady pace and any initial delays should shortly be cleared up. Manuscripts received so far cover all the fields included in the appellation "applied geochemistry," and volume 1 has met the projected size of 750 pages. Starting with volume 2, number 1 (January/

February 1987) the journal will publish proceedings of selected symposia of pertinent length. The first symposium to be covered was one held in Mont Ste. Marie, Quebec, Canada, 1986-10-01/03, with the title "Conference on Isotope Geochemistry of Groundwater and Fracture Material in Plutonic Rock." Some papers selected from the first three issues of volume 2 are as follows:

R.G. GREGORY and E.M. DURRANCE: Helium in soil gas: a method of mapping groundwater circulation systems in fractured plutonic rock

M. GASCOYNE and J.J. CRAMER: History of actinide and minor element mobility in an Archean granitic batholith in Manitoba, Canada

A.G. LATHAM and H.P. SCHWARCZ: On the possibility of determining rates of removal of uranium from crystalline igneous rocks using U-series disequilibrium,

1. a U-leach model, and its applicability to whole-rock data

2. applicability of a U-leach model to mineral separates

W.F. GIGGENBACH: Redox processes governing the chemistry of fumarolic gas discharges from White Island, New Zealand

TOM ANDERSEN: A model for the evolution of hematite carbonatite, based on whole-rock major and trace element data from the Fen complex, southeast Norway

YISHAN ZENG, JUIYING WEI and DINGGUO XIONG: Experimental study of hydrothermal alteration of carbonate rocks by F-Na solutions under flow conditions

H.R. KROUSE, A.A. LEVINSON, D. PIGGOTT and A. UEDA: Further stable isotope investigations of human urinary stones: comparison with other body components

W.M. EDMUNDS, J.M. COOK, W.G. DARLING, D.G. KINNIBURGH, D.L. MILES, A.H. BATH, M. MORGAN-JONES and J.N. ANDREWS: Baseline geochemical conditions in the Chalk aquifer, Berkshire, U.K.: a basis for groundwater quality management

CARLA P. LACERDA, MAHLON C. KENNICUTT II AND JAMES M. BROOKS: The distribution of dibenzothiophenes in Gulf of Mexico sediments

If members have appropriate manuscripts they wish to have considered for Applied Geochemistry, please submit them to the Executive Editor (Dr. Brian Hitchon, Alberta Research Council, PO Box 8330, Station

F, 250 Karl Clark Road, Edmonton, Alberta T6H 5X2, Canada). Information on possible symposium proceedings can also be sent to the Executive Editor. It is your journal, so please support it.

Dues payment by credit card

Membership dues (\$10.00 U.S. per year) and the optional subscription to Applied Geochemistry (\$15.00 U.S. per year) can now be paid to Pergamon Journals Limited by means of major credit cards, including Visa, Mastercard and American Express. This addition to the methods of dues and subscription payments is effective immediately.

Change of address notification

Should members change their mailing address, it is important that they inform the Secretary (Dr. Brian Hitchon, Alberta Research Council, PO Box 8330, Station F, 250 Karl Clark Road, Edmonton, Alberta T6H 5X2, Canada). If they subscribe to Applied Geochemistry, they should also inform Pergamon Journals Limited (Mr. Brian Smith, Subscription Fulfilment Manager, Pergamon Journals Limited, Headington Hill Hall, Oxford, OX3 OBW, England). This will ensure their continued receipt of both information about IAGC and Applied Geochemistry.

IAGC-sponsored meetings

Celebration of 125th Anniversary of birth of V.I. Vernadsky (title unknown)

1988-03-12 (2-4 days duration)

Moscow, U.S.S.R.

Sponsor: UNESCO

Comment: Vernadsky Institute is organizing this special scientific session.

V.M. Goldschmidt Conference

1988-05-11/13

Baltimore, Maryland, U.S.A.

Contact: Mr. William Curley, Coordinator, 410 Keller Building, The Pennsylvania State University, University Park, Pennsylvania 16802, U.S.A., (telephone: (814) 865-9173)

Sponsors: The Geochemical Society, European Association of Geochemistry, IAGC, AEG, MSA and SEGH

Comments: The conference marks the centennial year of the birth of V.M. Goldschmidt and focuses on the chemical aspects of the earth and planetary sciences. Among the topics for special symposia are: Eleventh Symposium on Geochemical Cycles; Ore-forming Processes; Environmental Geochemistry; Organic Geochemistry in Hydrocarbon Exploration; Origin and Diagenesis of Humic Substances, Coal and Kerogen; and Geochemistry of Platinum Group Metals. First circular response cards are due 1987-08-01, symposium abstracts are due 1987-11-20, and the pre-registration deadline is 1988-02-15.

Geochemical Evolution of the Continental Crust

1988-07-11/16

Sao Paulo, Brazil

Contact: Dr. C. De Barros Gomes, Instituto de Geociencias, Universidad de Sao Paulo, Caixa Postal 20899, Sao Paulo 01498, Brazil

Sponsor: IAGC

Comments: Among the proposed topics for discussion are radiogenic isotopes in geology, alteration processes, Precambrian metallogenesis, organic geochemistry, greenstone belts, and continental flood basalts. Field trips are being planned to the Precambrian iron deposits at Serra dos Carajas and the alkaline magmatic massifs at Lages and Jacupiranga.

First International Symposium on Thermodynamics of Natural Processes

1988-07-25/28

Strasbourg, France

Contact: Dr. Bertrand Fritz, Secretary-General TNP-1, Institut de Geologie, 1 rue Blessig, F-67084, Strasbourg Cedex, France (telephone: (33) 88.35.85.73; telex: ULP 870260F or CNRSCRO 890032 F)

Sponsors: IAGC Working Group on Thermodynamics of Natural Processes, International Geological Correlation Program, International Mineralogical Association, CODATA

Comments: This is the first international symposium organized by this Working Group, and will give all scientists studying the thermodynamics of natural processes in geology an opportunity to present and discuss current results respecting the acquisition and verification of thermodynamic data for minerals, liquids and gases, the use of thermodynamic data in geochemical models for mass transfer calculations, steady-state equilibrium and kinetic controls, and the validation and application of geochemical models. Abstract deadline is 1987-12-01; final date for registration and payment is 1988-02-01.

Study of Practical Simulations of Freshwater Ecosystems

1988 (third quarter; dates not fixed)

Rostov-on-Don, U.S.S.R.

Contact: Professor A.M. Nikanarov, Hydrochemical Institute, Stachky Prospect, 198, Rostov-on-Don 344090, U.S.S.R.

Sponsor: IAGC Working Group on Geochemistry of Natural Waters, Protection from Pollution

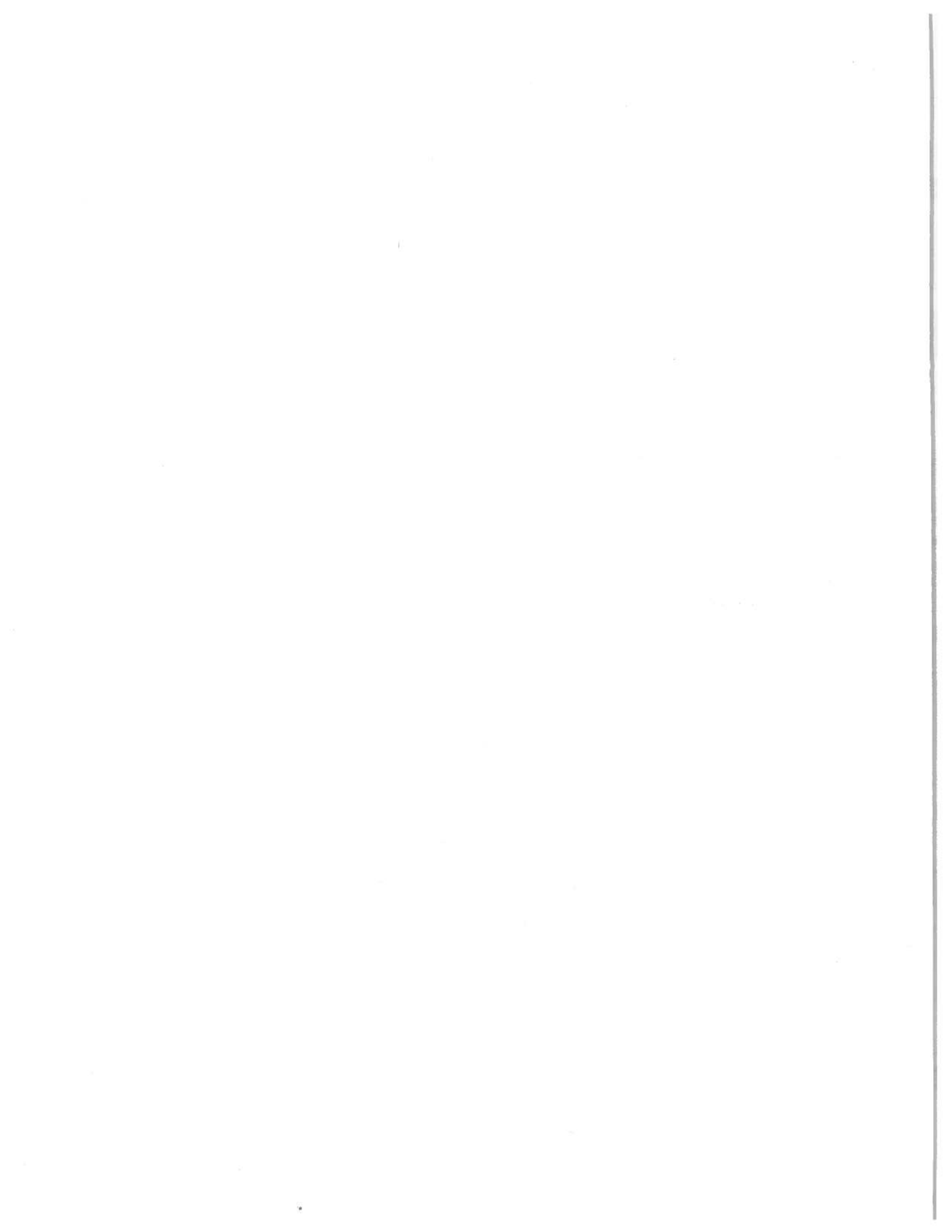
Comment: To be held within the framework of the Soviet-American-Hungarian collaborative agreement

Twenty-Eighth International Geological Congress

1989-07-09/19

Washington, D.C., U.S.A.

Contact: Dr. Bruce B. Hanshaw, Secretary-General, 28th International Geological Congress, PO Box 1001, Herndon, Virginia 22070-1001, U.S.A. (telephone: (703) 648-6053; telex: 248418)



Sponsor: IUGS

Comment: IAGC to organize geochemical program

Sixth International Symposium on Water-Rock Interaction (WRI-6)

1989-07-27 to 08-07

Bath, England

Contact: Dr. W.M. Edmunds, Secretary-General WRI-6, British Geological Survey, Maclean Building, Crowmarsh Gifford, Wallingford, Oxfordshire, OX10 8BB, England (telephone: 0491 38800, ext. 2293; telex: 849365 HYDROL G)

Sponsor: IAGC Working Group on Water-Rock Interaction

Comment: Post-session field trip to southwest England, 08-02/07, includes fossil hydrothermal systems, granite water-rock reactions, hot-dry-rock systems, soil science, and both sedimentary and marine geochemistry.

Other meetings of interest

13th International Meeting on Organic Geochemistry

1987-09-21/25

Venice, Italy

Contact: Mrs. Paola Cappozzo, SEMI GRANTOUR, Via Giorgione 63, 00147, Rome, Italy (telephone: (6) 59006188; telex: 611627 SEMI I)

Sponsor: European Association of Organic Geochemists

Comments: Topics to be covered in the technical sessions include organic geochemistry in petroleum exploration, the role of geochemistry in basin modelling, regional geochemical studies, biological markers in sediments, quantitative aspects of hydrocarbon generation, and kerogen, coal and asphaltene. Proceedings of the meeting are to be published by Pergamon Journals Limited in the series 'Advances in Organic Geochemistry.'

Fourth Canadian/American Conference on Hydrogeology (Fluid Flow, Heat Transfer and Mass Transport in Fractured Rocks)

1988-06-21/24

Banff, Alberta, Canada

Contact: Dr. C.M. Sauveplane, Alberta Geological Survey, Alberta Research Council, PO Box 8330, Station F, 250 Karl Clark Road, Edmonton, Alberta T6H 5X2, Canada (telephone: (403)438-7603; telex: 037-2147)

Sponsors: Alberta Research Council and National Water Well Association (U.S.A.)

Comments: In keeping with the format established at previous conferences, ten invited speakers who are widely recognized as leaders in their field will present substantial lectures that relate to specific aspects of fluid flow, heat transfer and mass transport in fractured rocks. Among the topics to be covered by other presentations are: fracture characterization, flow and transport in isolated/discontinuous fractures, flow and solute transport in fractured saturated and unsaturated zones, geochemical/isotopic characterization of waters and flow in fractured rocks, heat extraction from fractured hot-dry-rock

masses, and heat recovery from fractured geothermal reservoirs.

International Workshop - Deposition of Solids in Geothermal Systems

1988-08-16/19

Reykjavik, Iceland

Contact: Dr. J.S. Gudmundsson, Geothermal Division, National Energy Authority, Grensasvegur 9, 108 Reykjavik, Iceland (telex: 2339 ORKUST IS; telephone: +354-1-83600/82857); or Dr. D.M. Thomas, Institute of Geophysics, University of Hawaii, 2525 Correa Road, Hawaii 96822, U.S.A. (cable: UNIHAW; telephone: +1-808-946-6482)

Sponsors: Orkustofnun, (National Energy Authority of Iceland) and Hawaii Institute of Geophysics, U.S.A.

Comments: The workshop will address the scientific and technical aspects of solids deposition in geothermal systems, including the reservoir, wellbore, pipelines, equipment, direct use and electric power plants. Engineers and scientists are invited to submit research results, as they relate to geothermal systems, on theoretical and experimental studies of the chemistry of silica, calcite, sulphides and other geothermal deposits, the surface and colloidal chemistry of these materials, field and design studies of solid-liquid separation, reaction rates and crystallization, solution-mineral equilibria, scaling and heat exchanger fouling, steam quality and turbine deposits, process chemistry and injection of spent fluids. In addition, geothermal engineers and scientists are encouraged to submit papers that review the state-of-knowledge in solids deposition sciences and the state-of-the-art application of this knowledge to design technology and field practices. Discussion sessions will be organized to consider future design and field strategies, and to identify research needs. There will be field trips to local geothermal fields and power plants. Abstract deadline: 1988-02-01; camera-ready papers by 1988-06-01; registration by 1988-06-01.

Ninth International Clay Conference

1989-08-28 to 09-02

Strasbourg, France

Contact: Dr. Helene Paquet, Secretary-General, 9th International Clay Conference, Institut de Geologie, 1 rue Blessig, F-67084 Strasbourg Cedex, France (telephone: (88) 35.66.03)

Sponsor: Association Internationale pour l'Etude des Argilles (AIPEA)

Comments: Chairman of the Organizing Committee is Professor Yves Tardy (Chairman, IAGC Working Group on Weathering, Sedimentary and Diagenetic Processes). Among the proposed topics are geochemistry of clay minerals and thermodynamic approaches to clay-water interactions, clay minerals in soils and weathering, organic matter-clay associations, sediment diagenesis and hydrothermal alterations, and industrial and environmental applications such as waste disposal. The associated field trip is subtitled "clays, castles and

wines," and if it is anything like the WRI-2 field trip in 1977, it will be an outstanding success!

28th International Geological Congress

As most members are probably aware, the 28th International Geological Congress will be held in Washington, D.C., U.S.A., July 9-19, 1989. IAGC, as an Affiliated Organization of the International Union of Geological Sciences, will play a key role in programs dealing with geochemistry and cosmochemistry. All members of IAGC are invited to attend this special event of the global geological community, and particularly to be present at the IAGC General Assembly which is provisionally scheduled for 6:00 p.m. (18:00 h), Friday, July 14, 1989, at a location yet to be specified. All members will be notified of exact details when they become available. It is likely that, for the first time, IAGC will have a booth in the exhibits pavilion, which you are cordially invited to visit. At this time you are exhorted to encourage your organization to participate in the 28th International Geological Congress, and enclosed with this Newsletter

is a copy of the First Circular for IGC-28. Should you require additional copies, or wish to contact the organizers with respect to registration, exhibit space, or other matters, please write to Dr. Bruce B. Hanshaw, Secretary-General, 28th International Geological Congress, PO Box 1001, Herndon, Virginia 22070-1001, U.S.A. (telephone: (703) 648-6053; telex: 248418) or Dr. J.A. Reinemund, Exhibits Chairman, 28th International Geological Congress, PO Box 890, Leesburg, Virginia 22075, U.S.A.

Change of telephone number (Secretary)

The address of the Secretary remains the same as that reported in Newsletter 19. The new telephone number is: (403) 450-5113 (Mrs. Kathie Skogg, secretary, (403) 450-5112).

Change of telex number (President)

The address of the President remains the same as that reported in Newsletter 18. The new telex number is 817379 (ehhg CH); telefax: 252.01.92.

Note added at press time

It is with deep regret that IAGC has been informed of the death, 1987-07-03, of Dr. W.W. Hutchison, a world recognized Canadian geologist and President of IUGS. Bill Hutchison provided key leadership both to the Geological Survey of Canada and IUGS, and he will be missed by both organizations. Deepest sympathy has been expressed to IUGS on behalf of IAGC.