

I. A. M. G. No. NEWS LETTER* 13

THE PREZ SAYS

Since last August, when I was elected president of the organization, I have had the opportunity to meet or correspond with many of you about Association activities. Let me say we are an active and viable organization!

Membership is growing. However, we need your help to increase it even more. Brent Hemphins, chairman of our Membership Committee, would like your assistance in recruiting new members.

The financial position of the Association is improving. However, we need your help to improve it even more. John Hefner is chairman of the Finance Committee and would appreciate your aid in soliciting financial support, especially in securing industrial members.

The Educational Committee under the chairmanship of Roger Till is moving ahead with several projects. However, they also would appreciate your help; if you have any ideas, contact Roger.

Plans are well advanced for the IGC in Paris in 1980. Ghislain de Marsily is making our arrangements in conjunction with the Congress, and as a Council Member represents us at IGC planning sessions. Several subjects have been suggested for our symposia in Paris, but additional input is needed. What will be the subjects of interest 3 years hence? The following topics have been suggested: ▲ Predictive geology (de Marsily) ▲ Quantitative stratigraphic correlation (Merriam) ▲ Identification of sedimentary variables for quantitative analysis (Whitten) ▲ Regionalized variables (Whitten). Of course a general IAMG session will be organized and open to members of the Association.

Dan Gill is well along in planning for our sessions to be held at the International Sedimentological Congress in Israel in July 1978. More information will be forthcoming in a future News Letter.

We are organizing one or two sessions for the Carboniferous Congress in 1979. A one-half day symposium will be held on "Quantitative Techniques for the Analysis of Cyclic Sediments." Any suggestions for a second one-half day session? If you want to take part in the symposium or have a suggestion for the second topic contact me.

MATHEMATICAL GEOLOGY is forging ahead with its new editor, Dick McCammon. Good manuscripts and help in reviewing them are always appreciated. Dick has appointed a strong Editorial Board and we look forward to a productive 4 years under his editorship.

COMPUTERS & GEOSCIENCES is in its third year. It is a scientific success but to make it a financial success for the Association, we need additional subscriptions. Plan to subscribe yourself and have your library subscribe as well! Some excellent papers are forthcoming.

The 1976 William Christian Krumbein Award has been announced and we are very pleased that the first is to go to Prof. J. C. Griffiths, an active pioneer in geomathematics and computer applications. The award will be made officially later this year. A committee is now surveying candidates for the second award to be made this year. They welcome nominations.

The Association has commissioned Abbott Pattison, a noted sculptor of commemorative medals and devices, to strike the William Christian Krumbein medal. The casting will be done in Florence, Italy.

I have appointed a committee to select the outstanding papers for 1976 from MATHEMATICAL GEOLOGY (v. 8) and COMPUTERS & GEOSCIENCES (v. 2). The prize will be a year's paid membership in the Association.

Many other activities are supported by the Association, such as the Geochautauqua at Syracuse each fall, the geomathematics session at the Pribram symposium every other year, and cosponsorship of sessions with the AAPG Committee on Computer Applications and with the SEPM Computer Technology Research Group.

Dick McCammon is organizing a booth for us at the AAPG in Washington in June and at GSA in Seattle next fall. We will be promoting Association activities and passing out information on our journals, etc. Stop by.

Your participation and support of Association activities makes for a strong organization. The International Association for Mathematical Geology is for your benefit--support it!

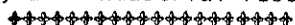
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*NEWSLETTER EDITOR: JOHN C. DAVIS



OUR ASSOCIATIONS HIGHEST HONOR

John C. Griffiths will be awarded the first William Christian Krumbein Medal, the highest recognition given by the International Association for Mathematical Geology. The award is intended to acknowledge (1) original contributions to the science, (2) service to the profession, and (3) support of the Association. Certainly Prof. J. C. Griffiths is a worthy recipient of the first of these awards, as he is a true leader and pioneer in our profession. Prof. Griffiths is perhaps best known for his rigorous application of the methods of classical statistics to sedimentary petrology, working especially in sampling design and analysis of variance. He has also made significant original contributions to the methodology of search for natural resources, and to many other areas of earth science and statistics. Prof. Griffiths has also inspired and trained a generation of statistical geologists who are now assuming leadership roles in academic, governmental, and industrial research.



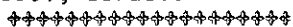
CALL FOR PAPERS - IAMG SESSIONS AT THE SEDIMENTOLOGICAL CONGRESS

The 10th International Congress of the International Association of Sedimentologists will be held July 9-14, 1978, in Jerusalem, Israel. Information about the scientific program, field excursion, and other pertinent matters can be found in the IAS Congress circular which can be obtained upon request.

Theme No. 5 of the scientific program, "Methods and Techniques in Sedimentology," will include papers on all topics of mathematical and statistical analysis in sedimentology, hydrogeology, engineering geology, geomorphology, and sedimentary mineral deposits. In conjunction with the Congress, the IAMG will sponsor two special sessions. Papers are solicited on the following two broad topics:

- ▲ Simulation of sedimentary, hydrogeological and geomorphological processes
- ▲ Seismic stratigraphy and sedimentological interpretation of petrophysical ("wire-line" or "electrical") logs.

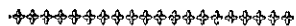
Please address all correspondence regarding Theme 5 and the IAMG sessions to: Dr. D. Gill, Geol. Survey of Israel, 30 Malkhei Israel St., Jerusalem 95501, Israel.



IAMG/COGEO DATA COMMITTEE

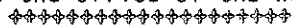
Richard Sinding-Larsen, Chairman of COGEO DATA, will chair a joint editorial committee for the IAMG. The committee will survey references on different methods or techniques presently used in geomathematics, and select one reference in each of the following categories: (1) A general reference describing the method; (2) A reference

which provides a meaningful application of the method; and (3) A reference which provides an evaluation of the method. Committee members include Dick McCammon (USA), Neil Burk (Canada), John Hruska (CSSR), and John Cubitt (USA). For more information, contact: Dr. R. Sinding-Larsen, Geol. Survey of Norway, P.O. Box 3006, 7001 Trondheim, Norway.



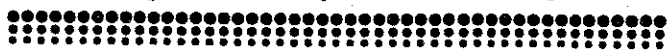
CODATA TASK GROUP ON SPACE AND TIME DEPENDENT DATA

The Committee on Data for Science and Technology (CODATA) of the International Council of Scientific Unions has established a Task Group, chaired by R. F. Tomlinson (Canada), to examine the methodology of handling space/time-dependent data and to foster interdisciplinary collaboration in the fields of astronomy, biology, chemistry, engineering, geology, geography, geodesy, geophysics, mathematics, physics, oceanography, and meteorology. Representatives will establish working groups to write position papers on the state of space/time-dependent data handling within each discipline to provide others with a first understanding of activity within the subject discipline. Position papers will probably form the basis of chapters in a monograph. The committee for geological sciences is being organized under auspices of COGEO DATA and IAMG, chaired by John Davis. Persons interested in committee activities should write the office of the Western Treasurer.



THINGS AVAILABLE

- ▲ ORIENT: A Graphical/Statistical Package for the Analysis of Directional Data, by Kirk J. Miller. A set of 26 FORTRAN sub-routines for analysis of directional data, and 57-page users' manual. Contact Prof. Waldo Tobler, Geographic Information Systems Laboratory, State Univ. of New York at Buffalo, Buffalo, New York 14222 USA.
- ▲ Series on Spatial Analysis No. 3: Measuring Spatial Dependence with Semivariograms, by R. A. Olea. Includes computer program to perform structural analysis. Available from Kansas Geological Survey, 1930 Ave. "A", Campus West, Lawrence, Kansas 66044 USA.
- ▲ MAPCAT: A Data Mapping and Analysis System for Mini-Computers, Part 1 - Mapping, by Michael J. McCullagh. 115 p. Contact Dept. of Geography, University of Nottingham, Nottingham NG7 2RD, England.



OUCH!

Membership of the IAMG now numbers 408--of which 175 are delinquent in 1977 dues! PAY UP!



2nd Annual Meeting

The Mathematical Geologists of the United States (MGUS), the newest Regional Organization of the IAMG, will hold its annual business meeting on Monday, November 7, 1977, at Seattle in conjunction with the Annual Meeting of the Geological Society of America. The MGUS meeting will begin at 1600 hours at a location to be decided by the GSA Seattle meeting committee and to be announced in the GSA program. A good turnout for this business meeting is important because of the pending status of MGUS as an Associated Society of GSA.

MGUS Affiliations

The officers of MGUS have initiated proceedings to become an Associated Society of the Geological Society of America and to become an Affiliated Society of the American Institute of Mining and Metallurgical Engineers. Our petition to the GSA has been temporarily tabled pending a review of Associated Societies status by a special committee of the GSA Council. A report on these pending affiliations will be made at the November business meeting.

Future Activities of MGUS

The officers of MGUS have been considering possible activities which the United States Regional Organization of IAMG should undertake. We ask all IAMG members in the US to provide their thoughts and comments about the proper role and activities of MGUS. A number of suggestions have been made, including:

- ▲ Acting as a clearinghouse for computer programs
- ▲ Distributing computer packages
- ▲ Sponsoring mathematical geology symposia
- ▲ Publishing a membership directory (with classification by interests and specialties)
- ▲ Organizing a Penrose Conference
- ▲ Organizing refresher short courses
- ▲ Soliciting review articles
- ▲ Publishing special volumes on mathematical geology

- ▲ Soliciting state-of-the-art papers
 - ▲ Sponsoring visiting lecturer tours (along lines of the AAPG Distinguished Lecture Series)
 - ▲ Conducting workshops
- Please let us know what activities you think are most needed by writing to Dr. John M. Cubitt, Department of Geology, Syracuse University, Syracuse, New York 13210.

MGUS Symposium at GSA

A MGUS symposium titled "Models for Prediction in the Earth Sciences" will be held at the 1977 GSA Annual Convention in Seattle. The following seven invited papers will be presented:

"Some applications of pattern recognition to geological problems"--Frank Press and Peter Briggs

"Geochemical models of global processes"--Fred Mackenzie

"Predictive models in hydrology"--Stavros Papadopoulos

"Remote sensing data as a parameter in resource exploration models"--Alexander Goetz and Leo Miller

"Bridging the gap between large-scale and small-scale petroleum discovery models"--Lawrence Drew and David Root

"Predictive aspects of models of low grade copper waste leaching"--Lawrence Cathles

"Models for prediction in geomorphology"--Ron Shreve

IAMG Authors at GSA

If you wish to participate in a session of contributed papers at GSA in Seattle in November, be sure to mark down MATHEMATICAL GEOLOGY under the OTHER classification on the abstract form. This is the only way we have an opportunity to organize a session on mathematical geology this year.

MGUS Constitution

Want a copy of the Constitution of the Mathematical Geologists of the United States? Contact the Secretary, Richard B. McCammon, U.S. Geological Survey, National Center 952, Reston, Virginia 22092.

*
Pronounced EM'GUS, not MU'GOOZ, as some maintain.



EDITORS NOTE: The News Letter is a service for all members of the International Association for Mathematical Geology. Any Regional Organization may request a full page to report on its activities--just write to the Editor, Office of the Western Treasurer. Only one special page per year, please.



FINANCES FOR REGIONAL ORGANIZATIONS

The IAMG Council is pleased to support the formation of Regional Organizations but requests suggestions from the membership about several important questions. These questions are concerned mostly with finances, because each Regional Organization has certain operating expenses, if just for printing and mailing of announcements.

1. Should local IAMG groups levy dues? Should members be allowed to belong to IAMG but not to the local group of the region in which they live, or vice versa? As an example, the Mathematical Geologists of the United States (MGUS) now count all IAMG members living in the USA as their members; however, MGUS has no income although postage to notify members of local events is a significant expense.

2. Should fees for local groups be collected with IAMG dues? This would require the Eastern and Western Treasurers to collect different sums from members depending upon the local group--if any--to which they belonged. Should it be optional for members living in a group's area to pay the local fee?

3. Should IAMG membership fees be raised by, say, \$2/yr with the understanding that this increment would be remitted to the appropriate local group. Extra fees from members not in a local group would accrue to the IAMG general funds.

Basically, there are two issues upon which I would welcome your views. (1) What should the Council do about local-group finances and dues? (2) What do the members of the several national groups around the world think about the financial bases of their own local limb of IAMG?

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FORTHCOMING MEETINGS OF INTEREST

▲ North American Paleontological Convention II, in Lawrence, Kansas, August 8-10, 1977. Contact R. L. Kaesler, Dept. Geology, University of Kansas, Lawrence, Kansas 66045 USA.

▲ COGEODATA Task Group on Retrospective Data Bases for Petrology, in Bochum, Germany, Sept. 6-8, 1977. Contact Felix Chayes, Geophysical Laboratory, 2801 Upton St. N.W., Washington, D.C. 20008 USA.

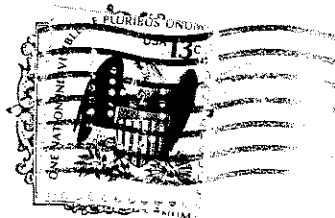
▲ Symposium on Data Analysis and Informatics, in Rocquencourt, France, Sept. 7-9, 1977. Contact Symposium Secretariat, IRIA, Domaine de Voluceau-Rocquencourt, 78150 Le Chesnay, France.

▲ First World Congress on Resource Depletions, Energy Alternatives and the Quality of Life in the Year 2000, in Riyadh, Saudi Arabia, March 26-30, 1978. Contact Musa Qutab, Dept. Geography, Northeastern Illinois University, Bryn Mawr at St. Louis Ave., Chicago, Illinois 60625 USA.



NEW SOCIETY FORMED

The International Association for Statistical Computing, an association of the International Statistical Institute, will be formally inaugurated at the 41st Session of the ISI in New Delhi, India, in December. IASC will foster interest and knowledge in effective statistical computing through international contacts among statisticians, computing professionals, organizations, institutions, government agencies, and the general public. For information, contact International Statistical Institute, 428 Prinses Beatrixlaan, Voorburg, Netherlands.



FIRST CLASS MAIL