

News Letter

Candidates for Office

Officers and Council Members of the IAMG will be elected during the Third General Assembly this August at the IGC in Sydney. A five-member nominating committee has proposed the following slate of candidates, listed alphabetically by office:

For the post of PRESIDENT

D.F. Merriam (USA)

W. Schwarzacher (UK)

For the post of VICE PRESIDENT

G.W. Hill (Australia)

For the post of TREASURER (WEST)

J.C. Davis (USA)

For the post of TREASURER (EAST)

V. Nemeč (CSSR)

For the post of SECRETARY GENERAL

E.H.T. Whitten (USA)

SIX ORDINARY MEMBERS OF COUNCIL

F. Agterberg (Canada)

G. de Marsily (France)

F. Demirmen (Turkey)

D. Gill (Israel)

J.C. Griffiths (USA)

J. Harbaugh (USA)

D. Hawkins (South Africa)

R.J. Howarth (UK)

C.J. Mann (USA)

R.A. Olea (Chile)

W.A. Read (UK)

J.E. Robinson (Canada)

W. Scala (FRG)

R. Sinding-Larsen (Norway)

A. Vistelius (USSR)

Additional nominations for the Council may be made from the floor of the General Assembly. Election will be by paper ballots distributed to members in good standing at the General Assembly.

Proposed Constitutional Amendments

Members will have the opportunity to vote on several proposed amendments to the IAMG Constitution and Bylaws at the General Assembly. Some of these changes are suggested simply to clarify or resolve ambiguities in the present language of the documents. Other changes are more substantive. None of the amendments are yet in final form; members are urged to write to the Council with suggestions and comments.

1. Proposal for election of Officers and Council by postal vote: This will require amendment of Article 7 of the Constitution to the effect that members in good standing would be sent a ballot list with names of the candidates put forward by the nominating committee. Ballots would be returned before the General Assembly, and postal votes counted with those of members in attendance.

2. Clarification of terms of office: Amend Article 10 of the Constitution so that Ordinary Members may be elected to the General Assembly for two terms only. The Secretary General and the Treasurers may be elected for three terms only. The President and Vice President may be elected for one term only. These changes preserve the present intent of the Article but resolve certain ambiguities of wording.

3. Expansion of the Editor's office: Amend and expand Bylaw 8 to cover the new journal, *Computers & Geosciences*: "The editor-in-chief of the *Journal of Mathematical Geology*, in consultation with the Council, shall be empowered to appoint up to four Associate Editors, a Deputy Editor, and up to 25 Editorial Correspondents. The editor-in-chief of *Computers & Geosciences*, in consultation with the Council, shall be empowered to appoint up to five regional editors and 25 members of an Editorial Advisory Board. Members of the Editorial Advisory Board for *Computers & Geosciences* and the Editorial Correspondents for the *Journal of Mathematical Geology* need not be members of IAMG."

4. Clarification of conditions for regional organizations: Amend Bylaw 12 to read "A regional organization may be formed if the membership for the region deems it desirable and conforms to the Statutes and Bylaws of the Association (exceeds 49 members). This Bylaw shall be reviewed every four years by the General Assembly."

5. Replacement of inactive or resigned Officers: This is a proposed new Bylaw which will allow for the orderly replacement of Council Members who are no longer in good standing. "Any Officer or Council Member more than one year in arrears of IAMG dues and dropped from membership either by reason of delinquency or resignation will be replaced by presidential appointment. The newly appointed member will fill the unexpired term of office and will be subject to the same conditions of office as outlined in the Statutes and Bylaws of the Association."

cont.

If you have not paid your 1976 dues, send them at once or the Western Treasurer will place a curse on you!



Proposed Constitutional Amendments (cont.)

6. Proposal for Krumbein Medal: This proposed Bylaw will establish an honorary medal to be presented in recognition of outstanding contributions to mathematical geology. "The President shall appoint a committee each year consisting of five members of the Association including two Officers and/or Council Members (the President acting as chairman *ex officio*) to accept nominations for the William Christian Krumbein Medal for exceptional contributions in the field of mathematical geology. Conditions for the medal include: (1) original contributions to the science, (2) service to the profession, and (3) support of the Association. No more than one medal shall be given in a year, but if no one is deemed eligible the award will be omitted. The William Christian Krumbein Medal is the highest award given by the Association and the recipient will be so honored and acknowledged. The award can be a token of appreciation as designated by the Officers and Council of the Association in cognizance of the occasion."

U.S. Regional Organization

A United States Regional Organization of the IAMG has been officially recognized by the Association following presentation of a petition at the Salt Lake City GSA convention. The Council has appointed C.J. Mann Acting President and R.B. McCammon Acting Secretary.

This announcement is a call for nominations to the offices of President, Vice-President and Secretary-Treasurer. A ballot of those nominated and willing to serve will be included in the next News Letter. Nominations are solicited until June 15, 1976, from all IAMG members residing in the U.S., regardless of citizenship. Nominations should be sent to R.B. McCammon, USGS National Center, Mail Stop 952, Reston, Virginia 22092.

Those elected shall have the responsibility for (1) establishing bylaws under which the U.S. Regional Organization shall be governed and placing those rules before the U.S. members for their approval; (2) determining the most advantageous conditions of affiliation with national organizations; (3) polling the membership as to affiliations favored; and (4) participating in the planning processes for future national meetings of affiliates at the earliest possible moment.

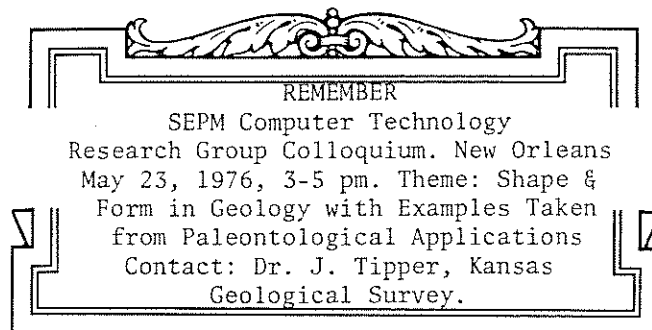
The new U.S. Regional Organization joins six other active regional groups. If American participation is as enthusiastic as that of the other regional groups, the affairs of the Association will flourish!

IAMG-GSA Session

A special session at the North-Central GSA meeting at Western Michigan University at

Kalamazoo, Michigan, April 28 - May 1, 1976, will be sponsored by the IAMG. Topics include computer assisted instruction (CAI) and interactive program applications in geology. One day will be given over to invited and contributed papers.

There will be a half-day tutorial session when interested persons can run programs on interactive terminals. Contact C.J. Mann, Department of Geology, University of Illinois, Urbana, Illinois 61801 or R.B. McCammon, USGS National Center, Mail Stop 952, Reston, Virginia 22092.



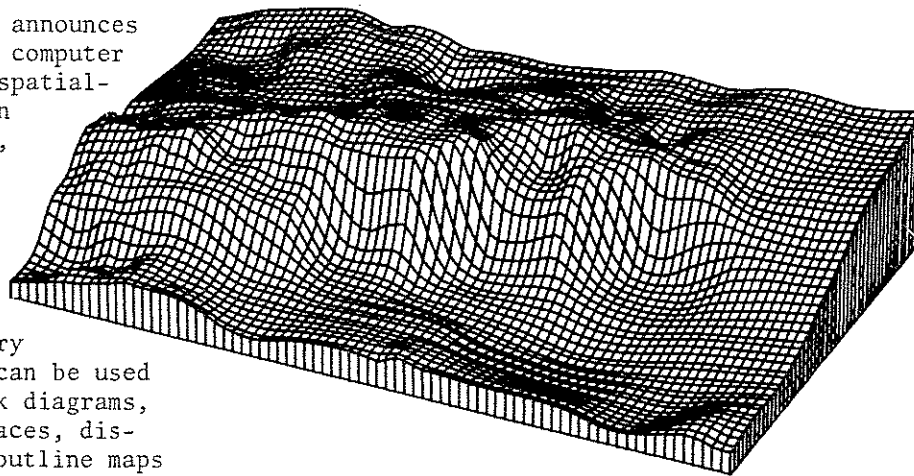
IUGS Subcommittee Report

The IUGS Subcommittee on Systematics in Petrology, chaired by A. Streckeisen of Berne, is preparing recommendations to reduce ambiguity and inconsistency inherent in so much of the taxonomy and nomenclature of igneous rocks. At its meetings in Grenoble last September, the Subcommittee resolved that "to test the viability of any normative calculation or any system of classification based on oxides or functions of oxides, it is proposed to circulate the suggested methods to various centers *where appropriate data files exist* to determine their consistency with existing usage of nomenclature." This appears to be the first formal recognition by the Subcommittee that more or less routine electronic data processing has now developed to the point at which it could make a major contribution in work of this type. Readers interested in the general work of the Subcommittee, and particularly those who wish to make specific suggestions concerning the taxonomy and classification of igneous rocks, are urged to write to Prof. A. Streckeisen, Min.-Petr. Institut, Sahlstrasse 6, CH-3012 Berne, SWITZERLAND.

Circular or Spherical Geostatisticians?

Geologists, statisticians, or allied scientists who are, or have, conducted research on application of circular or spherical statistics to geological problems are urged to contact Dr. R.A. Reymont, Paleontologiska institutionen, Box 558, S-751 22 Uppsala, SWEDEN.

★★ The Kansas Geological Survey announces public release of SURFACE II, a computer software system for display of spatially distributed data. Written in FORTRAN IV by Robert J. Sampson, the system is specifically designed for investigation of basic problems in spatial analysis, as well as routine production of high-quality computer graphics. The system is modular, with every aspect under user control. It can be used to construct contour maps, block diagrams, stereoscopic blocks, trend surfaces, distance function maps, postings, outline maps and statistical surfaces. Graphic output can be generated for plotters or line printers.



SURFACE II uses an English-word command language and contains over 20,000 FORTRAN and assembler statements in more than 100 routines. For contour mapping, the user can select the number of control points required to calculate each surface estimate; the weighting function used; the pattern of search; the use of dip projections; and many other options. Gridded surfaces can be added, subtracted, cross-multiplied, cross-divided, smoothed, re-gridded, filtered and processed in a variety of ways. Statistical options include nearest neighbor analysis, plots of surface values and coordinates, error analysis, and data pretreatment and checking. Surfaces can be estimated by universal Kriging, providing a statistically optimum map and a map of the standard error of all points.

SURFACE II is distributed through the Computer Graphics Fund, a nonprofit fund for the promotion of computer research in the geologic sciences. Commercial price is \$7000 US, including source code, user documentation, consultation on installation, test data & updates. Substantial discounts to academic, government, and nonprofit organizations. Write for details.

SURFACE II

POSITION AVAILABLE

Economic Geologist. With practical experience in an applied field, for example, geophysics. Must have strong background and interest in geomathematics, particularly sequential and/or spatial analysis in conjunction with computer applications. Will be responsible for teaching both undergraduate and graduate students. Appointment at the associate or full professor level. Application, accompanied by three letters of reference, should be made to Chairman, Department of Geology, Syracuse University, Syracuse, New York 13210. Syracuse is an equal opportunity/affirmative action employer. Salary range is \$17,000 to \$18,500.

IAMG Members Only

Use coupon below to order Nos. 1 & 2, SERIES ON SPATIAL ANALYSIS, at special reduced rate of \$5.00 US. Address order: *Geologic Research Section, Kansas Geological Survey, 1930 Ave. "A", Campus West, Lawrence, Kansas 66044.*

★ K.G.S. SERIES ON SPATIAL ANALYSIS ★

SURFACE II Graphics System, by R.J. Sampson. User's guide to SURFACE II, with a 21-page introduction of examples of mapping and graphics display. Algorithms used in the system are fully described. Contains 171 illustrations of computer-drawn maps. With flip-index and appendix of data used to create most of the illustrations. 240 pp. List price - \$7.00 US.

Optimum Mapping Techniques Using Regionalized Variable Theory, by R.A. Olea. The only complete English-language derivation of Matheron's regionalized variable theory applied to computer mapping. Covers the semivariogram, drift analysis, and universal Kriging. Derivations include all intermediate steps. An example application to subsurface geology in southern Chile is included. 137 pp. List price - \$3.50 US.

SERIES ON SPATIAL ANALYSIS NO. 1, *SURFACE II...*, and NO. 2, *...Regionalized Variable Theory*, are available to IAMG members for only \$5.00 US. Orders must be accompanied by this coupon. Fill in the shipping address and mail it today to the Kansas Geological Survey along with your check for \$5.00 US. Foreign postage, add \$1.50. ★

Send my copies of SERIES ON SPATIAL ANALYSIS NOS. 1 and 2 to:

Meetings of Interest

WORKSHOP ON COMPUTER APPLICATIONS. 17-18 May 1976. Edmonton, Canada. An introduction to those who wish to become familiar with computer techniques. Deadline 15 April 1976. Contact: Dr. G. D. Williams, Department of Geology, University of Alberta, Edmonton, Alberta, Canada T6G 2E3.

COMPUTER APPLICATIONS TO GEOLOGY. 24-26 May 1976. New Orleans, U.S.A. Papers will pertain to exploration and production of oil, gas, coal, oil shale and nonpetroleum minerals. American Association of Petroleum Geologists. Contact: Dr. Mark McElroy, Phillips Petroleum Company, 250 FPB, Bartlesville, Oklahoma 74004 U.S.A.

THE ACQUISITION, PROCESSING AND EXPLOITATION OF GEOLOGICAL DATA BY COMPUTER. 15-16 June 1976. Orléans, France. Computer assisted cartography, management and exploitation of geological data bases. Directors of the Geological Services of Western Europe. By invitation only. Contact: M. Mendioni, Bureau de Recherches Géologiques et Minières, B.P. 6009, 45018 Orléans Cedex, France.

SEMINAR ON DATA STORAGE AND RETRIEVAL OF GEOLOGICAL DATA FOR DEVELOPING COUNTRIES. 18-20 August 1976. Sydney, Australia. Sponsored by COGEODATA and Association of Geoscientists for International Development (AGID). Contact: Dr. D. F. Davidson, United States Geological Survey, National Center, Mail Stop 917, Reston, Virginia 22092 U.S.A.

THE APPLICATION OF COMPUTER METHODS IN THE MINERAL INDUSTRIES. 4-8 October 1976. APCOM 14th International Symposium, University Park, Pennsylvania, U.S.A. Contact: Ron Avillion, The Pennsylvania State University, 410 Keller Building, University Park, Pennsylvania 16802 U.S.A.

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PALYNOLOGICAL DATA HANDLING AND METHODOLOGY. 19 December 1976 - 5 January 1977. Division 5 of International Palynological Conference. Lucknow, India. Contact: Dr. G.O.W. Kremp, Department of Geosciences, The University of Arizona, Tucson, Arizona 85721 U.S.A.

DATA CAPTURE AND DISPLAY FOR GEOLOGICAL DATA. June 1977. Sponsored by COGEODATA. Exact dates and location under discussion by Working Group on Data Capture and Display. Contact: Dr. J. C. Davis, Kansas Geological Survey, University of Kansas, 1930 Avenue "A", Campus West, Lawrence, Kansas 66044 U.S.A.

MATHEMATICAL METHODS IN GEOLOGY. October 1977. Pribram, Czechoslovakia. A section of symposium on "Mining Pribram in Science and Technique." Contact: Dr. Vaclav Nemeč, Symposium Secretariat, Post. Schr. 41, 261 01 Pribram, Czechoslovakia.



Readers who have been following the accounts of R.G.V. Eigen will be pleased to note that more biographical information concerning this sadly neglected prodigy has come to light. Details will be published in the next News Letter. In the meantime, anyone with memorabilia or data connected with this truly legendary personality is cordially invited to share their findings with the general readership.

