

NEWSLETTER

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No. 24

June 1973

1973 GIS ANNUAL MEETING in DALLAS, Tex.

The 8th Annual Meeting of the Geoscience Information Society will be held in Dallas, Tex., during the annual meetings of the Geological Society of America and its associated societies, 12-14 November 1973. The GIS program chairman is Vice-President Marjorie W. Wheeler (Science-Technology Library, Lamar Univ, Box 10021, Lamar Univ Station, Beaumont, Tex. 77710; phone 713/838-8934).

A half-day symposium under the chairmanship of Beverly Holmes (Southern Methodist Univ) is titled "New and Unusual Publications in the Geosciences". Speakers will stress the unique and hard-to-find material--new and exciting developments of interest to the geoscience information specialist.

A half-day technical session will include papers on an in-house data-management program, sea-grant publications, a generalized data-base management system for storage and retrieval of geologic-sample information, and indexing from the point of view of the user as well as that of the *indexer*.

Titles and speakers for both sessions, as well as complete information about the GIS meeting, will be given in the October 1973 issue of the *GIS Newsletter*.

GIS President Hart Phinney will represent the Society at the 1973 Joint Technical Program Committee of GSA which meets in Boulder, Colo., 7-8 August for final selection of papers and plans for the GSA annual meetings.

AGI/GSA STEERING COMMITTEE FOR GEO-REF APPOINTED

(This report, dated 29 May 1973, was prepared by Dr. Cornelius F. Burk, Jr., chairman of the new Steering Committee)

Following on the severe financial problems encountered by the American Geological Institute in operation of the GEO-REF bibliographic system, as discussed in previous *GIS Newsletters*, AGI President R. Dana Russell announced on 22 May 1973 the appointment of a joint American Geological Institute/Geological Society of America Steering Committee for GEO-REF to guide reorganization of the system during the critical period ahead. The three-man committee includes Dr. George E. Becraft (U.S. Geological Survey), Dr. Cornelius F. Burk, Jr.

(Canadian Centre for Geoscience Data), and Dr. James F. Mello (Smithsonian Institution). Dr. Burk will serve as chairman.

The principal tasks of the Steering Committee will be the preparation of revised budgets for 1973 and 1974, and development of a detailed plan for GEO-REF by which a self-sustaining operation can be realized by 1975. Assurances have been received from the National Science Foundation that deficit financing will be provided until 1975, provided that these steps are taken. This renewed support appears attributable to the positive response of the geoscience community following the crisis of last December, and reflects NSF's confidence in our ability to get the job done.

Another basis for optimism on the future GEO-REF stems from the appointment of a full-time manager of GEO-REF, in the person of Brian A. McGee. Mr. McGee will be leaving his post as Index Supervisor of the Canadian Centre for Geoscience Data, Ottawa, to assume his new position with AGI on 1 July 1973. His primary responsibility with the Centre was management of the *Canadian index to geoscience data*.

In addition to the new Steering Committee and new GEO-REF manager, AGI will continue to receive support and cooperation from existing groups interested in the system, particularly the GIS Advisory Committee on GEO-REF (Hartley K. Phinney, chairman), the AGI Committee on Geoscience Information (James F. Mello, chairman), the GSA Committee on Publications (Tj. H. van Andel, acting chairman), the U.S. Geological Survey, and the National Science Foundation.

GIS NEWS

*** Copies of volume 3 of the *GIS Proceedings*, containing the papers presented at the technical session during the 1972 GIS Annual Meeting, will be distributed to GIS members in July. Non-members can order copies at \$5.00 each by writing GIS President Hart Phinney, Technical Information Center, Chevron Oil Field Research Co., P.O. Box 446, La Habra, Calif. 90631.

*** The mailing to GIS members of this issue of the *GIS Newsletter* is accompanied by three other documents:

Amendments to the Constitution. In compliance with a motion approved by the members attending the An-

JUL 12 1973

nual Business Meeting in Minneapolis, Minn., in November 1972 that the GIS Executive Committee initiate steps to amend the Constitution to provide for the Vice-President to also assume the position of President-elect, and in accordance with the provisions of Article XII of the Constitution, the Executive Committee is submitting to the membership the proposed amendments to Article VI (Officers). If approved, these amendments will be effective on 1 January 1974, and will affect the officers elected for the year 1974 and thereafter. GISers are requested to mark their ballots and forward them to the GIS Secretary.

Directory of Members, 1973. The membership directory includes members in good standing (dues paid for 1973) as of 1 June 1973. It contains geographic and organization indexes.

Article on GIS. An "organization profile" of GIS appeared in the May-June 1973 issue (v.5, no.3) of *Information*; part 1, published by Science Associates/International, New York City. Reprints of the profile are being sent to all members.

LOGAN O. COWGILL

We regret to report that Logan O. Cowgill died of colonic cancer on 20 May 1973 at the age of 54. At the time of his death, Mr. Cowgill was the Assistant Manager of the Water Resources Scientific Information Center, Office of Water Resources Research, Dept of the Interior, Washington, D.C., a post he had held since 1967.

A long-time member of GIS, Mr. Cowgill was the GIS Representative to the AGI Committee on Geoscience Information, and only recently became increasingly involved in committee affairs, particularly the operations of the GEO-REF bibliographic system.

Mr. Cowgill was born in Wabash, Ind., and after attending Harvard and Vancouver Universities, he received his bachelor's degree from the Univ of Indiana in 1939. Two years later, after taking a master's degree in history from Indiana, he worked as a civilian employee of the U.S. Army Corps of Engineers.

A specialist in the civilization of the Maya Indians of Central America, Mr. Cowgill worked for two years following World War II as a bibliographer with the Hispanic Foundation in the Library of Congress. In 1948 he returned to the Corps of Engineers as a librarian, and in 1955 he was named chief of the library branch in the office of the Chief of Engineers. From 1964 to 1967 he served as chief of the scientific and technical information division and project manager of the Corps of Engineers technical library improvement studies.

Mr. Cowgill was a collector of rare books, specializing in those printed by Jacob Tonson, a 17th-century publisher of English literature. He was a member, among other groups, of the American Society

for Information Science, the Special Libraries Association, the Bibliographical Society of America, the Grolier Club of New York, and the George Washington University Club.

He is survived by his wife, Martha Anne.

GSA CURRENT AWARENESS JOURNAL

Labelled as "a new venture in earth science reporting", the Geological Society of America (GSA) has initiated a monthly journal "designed to emphasize current awareness" in the geological sciences by rapid publication. Entitled *Geology*, this new publication "should occupy an intermediate place between the completely informal gray literature of preprints and word-of-mouth communication, and permanently archived formal publications" such as the *GSA Bulletin*.

The scope of *Geology* will be broad, and will run the gamut from reports of scientific conferences and symposia to the purely speculative. It will contain brief technical papers as well as a forum for discussions of all facets of geology and related fields. A section entitled "Current Abstracts" will contain abstracts of papers that have been accepted by the Society for later publication in the *Bulletin* or in a *Special paper* or *Memoir*.

According to a GSA advertisement, "emphasis will always be on current awareness--new observations and new thoughts, or at least new interpretations of old knowledge--and on more effective ways to print them. Our purpose will be to keep readers more up to date than has been possible before on what is new, different, and meaningful in the earth sciences".

Geology, to be published monthly beginning September 1973, will be sent at no cost to GSA members as a privilege of membership. Non-member subscription in the U.S. and its possessions, Canada, and Mexico: \$9.00 per year; \$16.00 for two years; single copy price 75c. Elsewhere: \$11.00 per year; single copy price \$1.00. Sample copies of *Geology* will be made available, upon request, after September 1973. Contact: GSA, 3300 Penrose Place, Boulder, Colo. 80301.

ASIAN INFORMATION CENTER FOR GEOTECHNICAL ENGINEERING

The Asian Institute of Technology (AIT) has announced the establishment of the Asian Information Center for Geotechnical Engineering (Asian Geotechnical Engineering for short, abbreviated to AGE) in Bangkok. The Center, the first of its kind in Asia, was established in early 1973 within the AIT Library under the joint sponsorship of the Division of Geotechnical Engineering and the Library. For the initial three years, the Center will receive financial support through a grant awarded to AIT by the International Development Research Centre of Canada.

AGE will serve as a clearinghouse in the Asian region for publications and information on all phases of

geotechnical engineering, including soil mechanics, foundation engineering, rock mechanics, engineering geology, earthquake engineering, and other related areas. The Center will collect information on all phases of pertinent research and projects including published and unpublished reports which are relevant to Asian conditions. It will also design a computer-based information storage and retrieval system, disseminate such information through its publications, photoduplication, and microfilming services, and provide both current-awareness and SDI services through its publication of journal abstracts and subject bibliographies.

Among the regular publications planned are: *Asian geotechnical engineering abstracts* (quarterly); *Asian geotechnical engineering in progress* (semi-annual); *Asian geotechnical engineering directory* (bi-annual publication consisting of information on organizations and individuals); *AGE current awareness service* (quarterly publication listing new publications and the table of contents of selected journals received at AGE); *AGE journal holdings list* (annual); and *AGE bibliography series* (either recurrent or demand bibliographies to be published as a result of general interest or demand).

The Center, in addition to its publication projects, will also provide the following services: reference (for bibliographic questions); referral (for technical questions); and reproduction (for photocopying or microfilming of required documents).

Individual and institutional memberships in AGE are available. For those from outside Asia, the annual membership subscription is \$20 (individual) and \$40 (institutional). Detailed information concerning the Center and the availability of its services is contained in a descriptive brochure available from Dr. Hwa-Wei Lee, Director, AGE/AIT, P.O. Box 2754, Bangkok, Thailand.

JOB OPENING

Lucius Pitkin, Inc., a contractor for the U.S. Atomic Energy Commission in Grand Junction, Colo., is looking for a Librarian in its Technical Library. Salary range: \$834 to \$1,175 per month. Applicants must meet the following requirements: (1) B.A. or B.S. degree, or equivalent, in Library Science and demonstrated knowledge of materials and literature of earth sciences; or B.A. or B.S. degree, or equivalent, in Geology with experience in the operations of a library; (2) Ability to understand geologic literature and write abstracts of geologic materials and technical reports, and have experience in technical-report writing; (3) Working knowledge of records management, geologic literature terminology, and geologic and cartographic maps; and (4) Ability to supervise library activities and meet and deal with the public. Applicants are instructed to submit their resumes to Richard A. Sterns, Personnel and Industrial Relations Representative, Lucius Pitkin, Inc., P.O. Box 1889, Grand Junction, Colo. 81501.

NEWS NOTES

USGS CLASSIFICATION SCHEME AVAILABLE

Following publication in 1972 of the 11-volume *Supplement to the Catalog of the United States Geological Survey Library*, it was possible for the Library to have reprinted that portion of the *Supplement* dealing with the "Classification Scheme and Index". Single copies of the "Classification" are available gratis, on a first-come, first-served basis as long as the supply lasts. Requests should be directed to: The Library, U.S. Geological Survey, Room 1033, GSA Building, 18th & F Streets, N.W., Washington, D.C. 20242.

LC SCIENCE TRACER BULLETS

The Reference Section of the Library of Congress' Science and Technology Division (10 First St, S.E., Washington, D.C. 20540) has issued "Science Tracer Bullets" on Geothermal Energy (TB 73-8, compiled by Jane Collins) and on Solar Energy (TB 73-7, compiled by Diana Niskern). These publications, available gratis from LC, provide for various topics an up-to-date list of sources including basic texts, handbooks, encyclopedias, dictionaries, bibliographies, government publications, state-of-the-art reviews, conference proceedings, indexes of journal articles, primary journals, selected journal articles and technical reports, selected materials available in the Science Reading Room (LC) vertical file, and additional sources.

ARID LAND SCIENCE at AAAS-73

Methods by which computers and other library resources can be put to work effectively on an international scale for the collection, storage, and retrieval of data on all aspects of arid land science were discussed by Patricia Paylore (Univ of Arizona) and Guadalupe Carrión (Consejo Nacional de Ciencia y Tecnología) at the symposium "Deserts and Arid Lands" (25-27 June 1973) held during the annual meeting of the American Association for the Advancement of Science in Mexico City.

RUSSIAN UDC EDITION FOR GEOLOGY

The All-Union Scientific and Research Institute of Economics of Mineral Ores and Geological Surveying (Vsesojuznyj Naucno-Issledovatel'skij Institut Ekonomiki Mineral'nogo Syria i Geologorazvedocnyh Rabot, or VIEMS) has issued a 2nd revised edition (1972, 302p.) of FID 400 "UDK. Otrasleye tablicy po geologii, geodezii, kartografii i smeznym otrasl'jam nauki i tekhniki", the special Russian UDC edition for geology, geodesy, and cartography. Price: 6.02 rubles.

INTERNATIONAL EXHIBITION OF MAPS

On the occasion of the 1973 Budapest scientific session of the Commission III: Automation in Cartography of the International Cartographic Association, the Hungarian National Office of Lands and Mapping and the Hungarian Society of Geodesy and Cartography will organize (20-30 August 1973) an international exhibition of maps covering "The New Trends in the Cartography--automation, remote sensing". Maps, cartograms, and cartodiagrams produced completely or partly on any scale mechanically by means of automatic or semi-automatic drawing ma-

chines (viz. lineprinters) will be displayed, as well as pertinent publications, papers, and programs. Photos realized by remote sensing and also maps and/or publications of map character produced by this technique and representing the Earth and celestial bodies will also be exhibited.

EARTH SCIENCE RESEARCH IN PROGRESS

Volume 3 of the 12-volume set *Science and technology research in progress* (1972-1973, 1st ed.), published by Academic Media (32 Lincoln Ave, Orange, N.J. 07050; phone 201/673-8030) in cooperation with the Smithsonian Science Information Exchange (SSIE), is entitled *Earth and space sciences*. It lists 12,500 (not 13,500, as advertised) current research projects in astronomy, economic geology, geochemistry, geophysics, meteorology, oceanography, sedimentology, water resources, and weather modification. For each project, the following information is given: title of project, name of principal investigator, name and location of research organization, name of the funding organization, and the approximate amount funded. However, no summary or abstract is provided. There are indexes by subject, principal investigator, research organization, and funding organization. The information is taken from the more than 125,000 on-going research projects identified in 1972 by the SSIE computer-based information system. The 12-volume set, which will be updated annually, is available for \$895; volume 3 alone can be purchased for \$60. [This product differs from *Earth sciences research catalog* (volume 1, 1970), published in 1971 by the Information Services Dept of the Univ of Tulsa: the latter lists only 2236 projects, covering only the earth sciences (geology, geochemistry, geophysics, hydrology, oceanography & limnology, and mining & petroleum engineering), but does provide entire summaries of the projects from the SSIE files. Its price: \$75]

GISers in the NEWS

Sara Aull, head of the science and engineering division of the Univ of Houston Library, has been presented with the 1973 Hall of Fame award by the Special Libraries Association for "her influence, her high professional standards and her dedicated service to SLA in all the responsibilities she has assumed for it" during a period of more than 20 years.

Neil B. Crow of the Lawrence Radiation Laboratory's Technical Information Dept Library has been elected chairman of the San Francisco Chapter of the American Society for Information Science for 1973.

Richard M. Pearl, professor of geology at Colorado College, Colorado Springs, Colo., has acquired *Earth science* magazine and Earth Science Publishing Co. Inc. The bi-monthly magazine stresses popular geology, with features and special departments rather than current news. The new address is Box 1815, Colorado Springs, Colo. 80901.

Bill M. Woods resigned as executive director of Engineering Index, Inc., on 25 March 1973 due to personal illness. John E. Creps, jr., has been appointed as acting director.

Louise S. Zipp is now the assistant serials bibliographer at the Linda Hall Library in Kansas City, Mo.

NEW MEMBERS OF GIS

Mamoulides, Aphrodite: Head Librarian, Shell Development Co., P.O. Box 481, Houston, Tex. 77001
Meyer, Dr. Richard F.: Deputy Chief, Office of Energy Resources, U.S. Geological Survey, Washington, D.C. 20244
Skillings, Mrs. Dorothy M.: Geologist, Michigan Geological Survey, Stevens T. Mason Bldg, Lansing, Mich. 48926

LITERATURE CITATIONS

(GISers indicated in UPPER CASE)

Abelson, Philip H. (May 1973) *Scientific communication*. EOS, v.54, no.5, p.531.---"More than most disciplines, geophysics needs a strong unifying force with good communication if its vitality is to be preserved and enhanced". The American Geophysical Union faces competition in publications from commercial publishers who depend on libraries for their revenue and charge all the traffic will bear. Publication in the specialized commercial journals has at least two "poor effects" with respect to communication: the audience is limited in numbers and diversity, and "those useful interactions that are so important to a healthy geophysics are curtailed".

Aiyepoku, Wilson O. (Jan 1973) *The languages and format of geographical literature; a comparative study*. International library review, v.5, no.1, p.53-62.---Geographical publications on any country are "overwhelmingly" in the official language of that country, "although English assumes a more international position than any other language". Also, books, rather than journal articles, are "more numerous and are of greater significance in the literature of geography and social science generally than in science and technology".

Bergen, John V. (Aug 1972) *Map collection in mid-western universities and colleges*. Professional geographer, v.24, no.3, p.245-252.

BURK, CORNELIUS F., Jr. (1973) *Evolution of Canadian System for Geoscience Data, 1964-73*, p.138-147. In: Open Conference on Information Science in Canada. 1st, Montebello (Quebec), 14-15 May 1973. *Proceedings*. Compiled by Georg R. Mauerhoff, for Canadian Association for Information Science. Chalk River, Ont.: Atomic Energy of Canada Limited. 180p.--- Discussion of the concept of the Canadian System

for Geoscience Data--a national, decentralized, owner-controlled data network of computer-based files for the use of all who may require geoscience data. Application of information technology has lessened the need for rigid standards for data content, notation, and structure, and increased greater flexibility for data recording and for practical use of data files among a wider audience; but, in turn, such wide usage will "promote and bring about higher degrees of standardization among geoscientists" in response to legitimate scientific needs. Key ingredient for a successful system is "systems intercommunication techniques" by which two or more data files may be used for a common purpose. After 9 years, some conclusions regarding the System: (1) it appears to be the only national system devoted to data, rather than to literature; (2) concept of the System has evolved as a direct response to advancing technology and will influence the conduct of the science itself; (3) need for prescribed conceptual framework to guide day-to-day activities of the System due to interaction of technology with information-processing practitioners; and (4) real need for policy (or "important"), not academic, decisions.

cerns the data of specimen labels and the provision of an efficient system for "data-banking", which is the storing of data about the specimens or the taxa in the computer and programming for the extraction of groups of records.

Hock, Randolph (1973) *Crystallography*, p.78-96. In: Wilson, T.D., and Herman, Esther, eds. *Fundamentals of documentation: students' papers*. College Park, Md.: Univ of Maryland, School of Library and Information Services. 220p. (Student contribution series, no.4).---A student's study of the literature and information sources for crystallography. Based on analysis of 852 citations from *Chemical abstracts*, it was found that 85.3% of all citations were from journals, 91.1% were published by societies, and 95.3% represented research or theoretical studies rather than data or applied science. The Bradford multiple for crystallography is 5.3, and the half-life of crystallographic journal literature is about 5 years.

Hubaux, A. (March 1972) *Dissecting geological concepts*. International Association for Mathematical Geology. Journal, v.4, no.1, p.77-80.---The "lumping together of various types of information, far from being an advantage, is the major hindrance to geologic progress" (p.77). Geology needs a better means of transmitting objective descriptions; the "key is standardization", which is done by dissecting notions into simpler concepts and by normalization of these concepts by agreement on the unit of measurement.

Conley, C.D., and Hea, J.P. (March 1973) *A lithologic data-recording form for a computer-based well-data system*. International Association for Mathematical Geology. Journal, v.4, no.1, p.61-72.

Hubaux, A. (Nov 1972) *Geological data files; survey of international activity*. CODATA bulletin 8. 30p. ---A report of COGEODATA. Includes a 15-page tabulation of 186 geological data files (arranged by country) with descriptive information concerning their contents, purpose, physical state of the storage support, and availability. A "geological data file" is defined as "a collection of measurements and observations made on a series of geological objects of the same kind" (p.2). Forty representative files are described. Includes indexes by theme, purpose, degree of availability, type of physical support, and file to which original and available computer programs are directly related.

El-Hadidy, Bahaa (Feb 1973) *The future of bibliographic control among the abstracting and indexing services*. Special libraries, v.64, no.2, p.110.---Abstract of paper to be delivered 12 June 1973 at the 64th Annual Conference of the Special Libraries Association in Pittsburgh. By studying the coverage of a sample of the geochemical literature by *Chemical abstracts* and other major services in the geosciences, the author comments on the degree to which the present services have failed to cover the existing information (19% of the sample is not covered by any of the services consulted) and the extent of their duplication and overlap (63% overlap of coverage between *Chemical abstracts* and the other services).

Kelley, Robert W. (May 1973) *Reasons for submitting manuscripts in good condition*. Association of Earth Science Editors. *BlueLine*, v.6, no.2, p.7-8.---Essay distributed to authors at the New Mexico State Bureau of Mines and Mineral Resources.

Ermolova, O.N., and others (1971) *Opyt sostavleniia referatvnogo bibliograficheskogo ukazatel'ia po matematicheskoi geologii*. Sovetskaiia bibliografiia, 1971, no.1, p.28-33.---Compiling an abstract journal in mathematical geology.

Manheim, F.T. (May 1973) *Referees and the publications crisis*. *EoS*, v.54, no.5, p.532-537.---"Practices that tend to reduce the effectiveness of referees and the quality of scientific periodicals are gaining ground" (p.532). Discusses the peer-review system as it applies to earth-science publication, esp. the disadvantages of two trends that have become established among earth-science publications: identification of referees of papers to authors, and active participation of authors in the selection of the referees who will advise on acceptance, rejection, or revision of their manuscripts. "One of our few bulwarks in preserv-

Geological Society of London. Geological Information Group (Dec 1972) *Geological Information Group*. Geoscience documentation, v.4, no.6, p.90.---Summaries of two papers presented by P. Wilkinson at the 29 Nov 1972 meeting of the Group: one on COGEODATA (the IUGS Committee on Storage, Automatic Processing and Retrieval of Geological Data) and the other on SAFRAS (a generalized data-base management system).

Hall, A.V. (Feb 1972) *Computer-based data banking for taxonomic collections*. *Taxon*, v.21, no.1, p.13-25.---Review of data handling primarily con-

ing periodicals as effective scientific tools lies in tough and unsentimental refereeing--not only by acknowledged 'experts' and 'insiders' but also by critical generalists" (p.536).

McCuaig, Helen E., and Mercier, Marcel A. (1973) *A UDC water thesaurus/concordance: development and use*, p.104-118. In: Open Conference on Information Science in Canada. 1st, Montebello (Quebec), 14-15 May 1973. *Proceedings*. Compiled by Georg R. Mauerhoff, for Canadian Association for Information Science. Chalk River, Ont.: Atomic Energy of Canada Limited. 180p.---Description of study to link structural vocabulary (thesaurus developed by U.S. Interior Dept's Water Resources Scientific Information Center) with a widely used classification scheme (UDC) at Environment Canada's Water Resources Document (WATDOC) Reference System as an aid in effectively identifying information in an automated retrieval system.

Meadows, Katherine F. (1972) *Geothermal world directory 1972*. Glendora (Calif.): Geothermal World Directory. 190p. \$15.---Contains more than 1000 listings of commercial firms, governmental agencies, public & private utilities, journals & periodicals, universities, securities dealers, geologists & consultants, environmental & ecologic groups, and individuals & associations interested in geothermal development. Maps and photographs of recent geothermal discoveries and projects, and encyclopedic articles on special aspects of geothermal resources are also included in the directory.

MEANLEY, CAROLYN (Jan-Feb 1973) *Regional Information and Communication Exchange (R.I.C.E.)*. Information; part 1, v.5, no.1, p.54-55. (Information center profile).---Description of R.I.C.E. (at Fondren Library, Rice Univ) which supplies technical information to business and industry.

Novikova, T.Ia., and Beliakova, L.T. (1971) *Sovremennoe sostoianie informatsionnogo obsluzhivaniia spetsialistov v oblasti geologii*. Nauchno-tehnicheskaiia informatsiia; seria 1: Organizatsiia i metodika informatsionnoi raboty, 1971, no.2, p.16-17.---State of the art in geologic information service.

Skelton, Raleigh A. (1972) *Maps; a historical survey of their study and collecting*. Chicago: Univ Press. 138p. \$5.95.

SMITH, F. GORDON (Sept 1972) *A computer program to plot random or real proportions of three components of a mixture*. International Association for Mathematical Geology. Journal, v.4, no.3, p.263-268.---"A unimodal clustering of points in a three-component triangle is expected by chance even if the three components are entirely independent and uniformly distributed through finite intervals" (p.266-267).

SNOWBALL, GEORGE J. (April 1973) *Management graphics revisited*. Special libraries, v.64, no.4, p.10A-11A.---Letter to the editor.

U-TANKS

May 28, 1973

Secretary
Geoscience Information Society
c/o American Geological Institute
2201 M Street, N.W.
Washington, D.C. 20037
U.S.A.

The ocean, space and ground do not exist to shut out problems of facing the unknown future..... The curious invented the boat, plane and tank. Rough notions led on the U-boat, U2. Undoubtedly, the U-tank (underland-tank) sooner or later will come. We have had novel ideas of space which allowed us go where we want; through the ocean to get more goods; the U-tank into the inner proceed with the earth-quake study and united effort with the earth-quake alarm system construction. With the U-tank we may go through mountains or a planet to get something that we lack (We explore the space and land on the moon, as ants climb on the rough orange face, run over the body and search this stuff; What is it? Bring away a few peelings to find out a little? For the future that's unsatisfied.).

Dear Stranger;
I have an idea of the U-tank (Profile, Principle). Shall we discuss and try it?
I keep mute waiting your answer and scoff.

Very truly yours

Mr. Jain Kwei-Ho (Loketoe)
No 214 Chang Chun Road
Taipei, Taiwan
Republic of China

Any GISer wish to take a crack at answering this???

GIS OFFICERS

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