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# GIS newsletter

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## Drastic Cut in NSF Budget For Science Info' Services

April 3, 1974

### Memorandum

To: Friends of GEO•REF  
From: Linn Hoover  
Subject: NSF Budget

I have recently been informed that the budget of the National Science Foundation's Office of Science Information Services for the fiscal year beginning next July 1 has been cut 40 per cent, from \$8 million to \$5 million, by the Office of Management and Budget. Although this cut does not directly affect GEO•REF or other current geoscience information projects at AGI, it could seriously weaken the nation's science information services in general and could jeopardize any science information grants that AGI or its member societies might request from NSF in the future.

Congressional hearings on the NSF budget for FY 1975 are imminent. The American Chemical Society and the American Institute of Physics, among other organizations, will present testimony of these hearings in favor of restoring the cut in the OSIS budget. It would be appropriate for geoscientists also to register their protest about this proposed reduction in Federal funds for science information services. This can be done by calling, wiring or writing one or more of the following:

Senator John L. McClellan  
Chairman (Dem., Ark.)  
Senate Appropriations Committee  
(225-2353)

Senator William Proxmire  
Chairman (Dem., Wisc.)  
Senate Subcommittee on HUD, Space and Science  
(225-5653)

Senator Edward M. Kennedy  
Chairman (Dem., Mass.)  
Senate Special Subcommittee on National Science  
Foundation  
(225-4543)

Representative George H. Mahon  
Chairman (Dem., Texas)  
House Appropriations Committee  
(225-4005)

Representative Edward P. Boland  
Chairman (Dem., Mass.)  
House Subcommittee on HUD, Space, Science and  
Veterans  
(225-5601)

The address of the U.S. Senate is Washington, D.C., 20510; of the House of Representatives, Washington, D.C., 20515. All telephone numbers are Area Code 202.

Alternatively or in addition, you can communicate with Dr. H. Guyford Stever, Director, National Science Foundation, Washington, D.C., 20550 (AC 202, 632-4001).

Several arguments to be made against this budget cut are that the National Defense and Education Act of 1968 directs the National Science Foundation to "provide or arrange for the provision of abstracting and indexing—leading to more effective dissemination of scientific information and to undertake programs to develop new or improved methods including mechanized systems for making scientific information available." In spite of this mandate, the budget of the NSF Office of Science Information Services has been reduced in each of the past six years. For FY 1975, the total NSF budget is increased 25 per cent, but science information is cut 40 per cent. The United States is alone among the major developed countries of the world in not having a government operated or supported science information network.

In view of the financial support that NSF has given in the past to geoscience information projects, including many conducted by AGI, and the importance of information services to the scientific community as a whole, it is urgent for Congress to restore \$3 million to the OSIS budget for FY 1975. If you choose to request that this action be taken, please send me copies of your letters or telegrams. But please act promptly.

## Nominations For GIS Offices

Ms. Mary W. Scott, 1974 GIS Nominating Committee Chairman, would like to receive nominations from members of the Society for the offices of Secretary, Treasurer, and Vice-President-President-elect. Her address:

Geology Library  
326 Leonard Hall  
University of North Dakota  
Grand Forks, N.D. 58201

## New GEO•REF Project Manager

John Gary Mulvihill has been named Project Manager of GEO•REF effective May 1, 1974. Mr. Mulvihill was previously employed at the American Petroleum Institute in New York where he was Assistant to the Manager of the API Central Abstracting and Indexing Service (CAIS).

## Committee on Geoscience Information Holds Meetings

Summary of activities for the three-month period ending March 31, 1974:

The Committee on Geoscience Information held two meetings at AGI during the quarter. The principal item on the agenda for both meetings was GEO•REF, in view of this project's critical administrative and financial problems, reported below. However, the committee also continued a discussion of a proposed readership survey, to determine the scientific reading habits of geologists, and the possible publication by AGI or another organization of a pre-publication abstract journal. The staff was asked to prepare a tentative budget for this journal, for review by the committee at an April meeting.

Upon returning on February 15 from a meeting in Paris of the ICSU Abstracting Board, Joel J. Lloyd terminated his employment by the Institute as director of geoscience information. However, Lloyd also represented AGI at the annual meeting in March of the National Federation of Abstracting and Indexing Services, of which he is the retiring president. Lloyd expects to continue his work in science information as a staff member of the National Research Council.

Problems related to the management and financial integrity of GEO•REF continued to demand the attention of the Executive Committee and project advisory committee. In the absence of a project manager, Gerald Ochs served in this capacity until his resignation on February 28, after which Ghassan Rassam, GEO•REF chief editor, took on this responsibility. The advisory committee, under the leadership of Chairman George Becraft, identified and interviewed several candidates for the managerial position. It is anticipated that a new manager will be appointed and will enter on duty by May 1.

An analysis by E.W. Kain, AGI business manager, of the financial status of GEO•REF as of December 31, 1973, showed that the project could incur a deficit in 1974 of as much as \$150,000 and that, under present circumstances, it could not possibly become self supporting in 1975. Upon receiving this analysis, the Executive Committee and GEO•REF advisory committee requested Kain to confer with Stephen Hoskins, GSA business manager, on the total budget for GEO•REF and the derivative GSA *Bibliography and index of geology* and to propose alternative methods to keep these two services functioning beyond the end of 1974. This planning is under way, under the guidance of the GEO•REF advisory committee and GSA committee on publications, and a recommended course of action will be presented to the AGI Governing Board and GSA Council in May.

Despite these administrative and financial problems, good progress was made during the quarter in augmenting the GEO•REF bibliographic file. The project staff processed 11,278 citations, and at the end of March the file contained a total of 219,274 indexed bibliographic references. Camera-ready copy for the cumulative volumes of the 1973 GSA *Bibliography* was processed and year-end indexes were prepared for five

serial journals. Work was resumed on a special bibliographic project for the Kansas Geological Survey and the California Division of Mines and Geology continued to submit indexed references on California geology for a state bibliography. A special bibliography on the geology of Labrador and Newfoundland is being prepared for the Geological Survey of Canada. In February, the GEO•REF retrospective search service offered by AGI attained a new monthly record of 35 clients. These searches are now being made through the computer facilities of System Development Corporation, Santa Monica, California. SDC also provides direct on-line access to the GEO•REF file for customers that have remote terminal equipment.

On March 1, V.P. Sokoloff, AGI staff translator, retired after eight years of service. His primary responsibility had been to prepare reviews of Russian geological literature. The translation program lost a valued associate in February, with the death of Douglas C. Alverson, who had been a member of the Committee on Translations since 1966 and was an acknowledged expert on the geology of the Soviet Union.

In August 1973, AGI published a collection of papers translated from the 1964 volume of *Geokhimiya* but not selected for publication in *Geochemistry international*. Nearly two-thirds of the 500 copies printed have already been sold at \$35 each. On the basis of this response, Tom Rafter, program manager, has directed the preparation of a similar collection of papers from the 1965 volume of *Geokhimiya*. This new publication should be available early in April.

Summary of the April 5th meeting:

Members John Price, George Becraft and James Mello were present, and were joined by Linn Hoover and John Mulvihill.

Linn Hoover introduced John Mulvihill as the new Program Manager for GEO•REF. John will begin on May 1. He brings to the job considerable experience at American Petroleum Institute in managing an operation similar to GEO•REF, with heavy reliance upon the same types of computer-related services. During the discussion of GEO•REF George Becraft announced that the U.S. Geological Survey plans to enter into a contract with AGI for GEO•REF services which solves the calendar year 1974 budgetary problems. George has been working on an analysis for calendar year 1975 which should be ready for general consideration in the near future.

The next item of business was the selection of a new Chairman for the Committee. James Mello announced his wish to be replaced because of his conviction that leadership by the same individual for a year is enough, coupled with his feeling that other members of the Committee could provide outstanding service as Chairman. After general discussion the members agreed unanimously that Burt Adkinson should be the new Chairman.

The Committee briefly discussed the readership survey and agreed that further consideration of it would have to await developments relating to funding for GEO•REF and funding of the National Science Foundation. Linn Hoover voiced concern about a proposed cut in the budget of Office of Science Information Services in NSF, and of course this relates to the readership survey since it is to this arm of NSF that we would have to apply for funds to support the survey.

The Committee also discussed the pre-publication abstract journal and the responses which have been received. It was agreed that further action in this area should also await clarification of the GEO•REF question. The subject will be considered again at the May meeting. The members present, and particularly George Becraft, continued to be favorably inclined towards the pre-publication abstract journal. The concept needs to be aired with as many different groups of geologists and geological societies as possible in order to gain a full appreciation of the pros and cons and also in order to inform as many people as possible of the concept.

### USGS Library Moves to Reston, Va.

U.S. Geological Survey Library has moved from Washington, D.C., to new quarters on the fourth floor of the National Center in Reston, Virginia. Interlibrary loans, reference and photocopying operations have been temporarily suspended from March 15 through April 29 to insure a trouble-free relocation. The library's new address:

U.S. Geological Survey Library  
National Center—Mail Stop 950  
12201 Sunrise Valley Drive  
Reston, Va. 22092

### GIS Members Prominent in SLA Elections

GIS members are prominent in the 1974/1975 elections of the Special Libraries Association. Candidate for Chairman-Elect of the Advisory Council is H. Robert Malinowsky (University of Kansas Libraries, Lawrence), and candidate for Director is Aphrodite Mamoulides (Shell Development Co., Houston, Tex.). The 1974/1975 SLA Nominating Committee included GISers Sara Aull (Landis, N.C.) and S. Kirk Cabeen (Engineering Societies Library, New York City).

### New Earth Science Editors Association Meets in Caracas

ALEGEO, the Asociación Latinoamericana de Editores en Geociencias, was formed at a meeting in Caracas, Venezuela, November 13-14, 1973. The International Union of Geological Sciences, under a UNESCO contract, sponsored the event, which resulted from efforts of the Association of Earth Science Editors (representing mostly U.S. and Canada) and Editerra (Europe) to extend their associations to other continents. Twenty-two editors from eleven Latin American countries and three AESE and Editerra representatives are among the charter members. The organization elected Géol.

Cecily Petzall, Dirección de Geología, Ministerio de Minas e Hidrocarburos, Caracas, as its first president. It plans to meet every three years in conjunction with the Latin American Geological Congress.

ALEGEO will work along lines similar to those of AESE and Editerra—employing modern standards and techniques in editing and upgrading the editors' degree of professionalism through their *Boletín informativo*. The association is eager to exchange information with other organizations involved with scientific editing. Correspondence may be addressed to: Géol. Mariá Lourdes Gamero, Editor, Boletín Informativo de ALEGEO, Escuela de Geología y Minas, Apartado 50926, Caracas 105.

### Literature Citations

(GIS members are in caps)

Gadd, Ben. *A practical system for filing and indexing separates*. *Earth science*, vol. 26, no. 5, 1973, p. 265-268.

Lipina, O.A. *A punched-card index of the tournayellids*. *Paleontological journal*, vol. 7, no. 2, 1973, p. 228-236.

Martinez, Samuel J. *A cooperative information storage and retrieval system for the petroleum industry*. *Journal of chemical documentation*, vol. 13, no. 2, May 1973, p. 59-65.

Rudelforth, C.C. and Webster, R. *Indexing and display of soil survey data by means of feature-cards and Boolean maps*. *Geoderma*, vol. 9, no. 4, 1973, p. 229-248.

SNOWBALL, GEORGE J. and Sampedro, Joseph. *Selection of periodicals for return to prime space from a storage facility*. *Canadian library journal*, vol. 30, no. 6, November-December 1973, p. 490-492.

### New Geoscience Publications

(GIS members are in caps)

BISHOP, OLGA B. *Use of professional staff in libraries: a review 1923-1971*. Ottawa, Canadian Library Association, 1973, 28 p. (*Occasional paper*, 81) \$4.00. ISBN 0-88802-097-x.

*Earth research*—new geological monthly (first issue—December 1973) designed "to assure geoscientists a vehicle for exchange of new ideas and data." Its rapid publication and automatic (free) distribution to geology libraries throughout the U.S. and Canada is expected to provide the professional equivalent of a journal of record. Published by J. Duncan Keppie and Harold D. Nathan of the Department of Geology, Acadia University, Wolfville, Nova Scotia.

*ECOL: book catalog of the Environmental Conservation Library*. Chicago, Minneapolis Public Library, American Library Association, March 1, 1974, 208 p. Paper ed., \$5.95. (LC 73-21865, ISBN 0-8389-0173-5)

*Indian journal of earth sciences*—new periodical published by the Indian Society of Earth Sciences, Dept. of Geology, Presidency College, Calcutta 700012. Vol. 1 (1974) will consist of two issues: RS 40.00, U.S. \$10, U.K. £ 4.00.

Kelly, F.J. *A data base management and information retrieval system employing computer programs MNGFLE and SRHFLE*. Ottawa, Canada, Dept. of Energy, Mines and Resources, Mines Branch, October 1973. 75 cents. (Technical bulletin TB 178)—The FORTRAN IV computer programs are designed to manage and retrieve information on a CDC-6400 computer system. "Unlike system programs, modification control of these programs remains in the hands of the user. For identical service, these programs have reduced the operating charges and computer memory requirement attributable to the utility program MARS; MNGFLE by 63%, and 35%, and SRHFLE by 95% and 46%."

Laycock, J.W. and Siggers, T. *Storage and retrieval system in use by the Geological Survey of Queensland for hydrogeological data*. Brisbane, Queensland Dept. of Mines, Geological Survey, 1973, 77 p. (Geological Survey of Queensland report no. 77)

*Manual on international oceanographic data exchange*. Paris, UNESCO, 1973. 3rd rev. ed. Prepared by the Intergovernmental Oceanographic Commission. Its purpose is to assemble the procedures, resolutions, recommendations, and various documents concerned with the exchange of oceanographic data for the guidance of potential participants and contributors to international oceanographic data exchange (national oceanographic data centers, designated national agencies, academic institutions, organizations and scientists).

MORRISON, JACK L., Greenwell, L.G., and Hilsen, N.B. *Development of a prototype search and retrieval network for water resource information*. Norman, Oklahoma University Research Institute, January 31, 1973, 113 p. (W74-02821, OWRR-W-145 (3743) (1); No. PB-226 569/2WL). Available from National Technical Information Service, Springfield, Va.: HC \$4.25; MF \$1.45.

National Advisory Committee on Research in the Geological Sciences. *Data storage and retrieval*. In its *Current research in the geological sciences in Canada 1972-73*, p. 15-19. Compiled by Thomas E. Bolton. Ottawa, Canada Geological Survey, 1973, 193 p. (Canada Geological Survey paper 73-5)—List of 33 research projects (June 1972-May 1973) on geologic data storage and retrieval in Canada.

Ristow, Walter W., comp. *Guide to the history of cartography; an annotated list of references on the history of maps and mapmaking*. Wash., D.C., Library of Congress, Reference Dept., Geography and Map Division, 1973, 96 p. (For sale by the Supt. of Docs.; stock no. 3001-00055, 75 cents.)

Roberts, M.R. *Computer program for selective retrieval of data from a standard [formatted] STATPAC tape*. Springfield, Va., National Technical Information Service, 1973, 41 p. (PB-224 785/AS) HC \$3.00; MF \$1.45.

*The Scientific editor*—bimonthly newsletter, published by Information Systems Association; first issue: July 1973. Editor: GRAHAM LEA. "aims to circulate news from editorial associations and to review topics such as refereeing, copyright standards, nomenclature, style, indexing, and publication economics." Inquiries should be addressed to: The Scientific editor, P.O. Box 573, Westminster, London SW1, Eng.

U.S. Library of Congress. National Referral Center. *A directory of information resources in the United States: Federal Government, with a supplement of government-sponsored information analysis centers*. Rev. ed. Wash., D.C., Supt. of Docs., 1974. \$4.25. (LC 1.31: D62/4/974, stock no. 3000-00067)

Zissis, G.J., Heiss, K.P., and Summers, R.A. *Design of a study to evaluate benefits and cost of data from the first Earth Resources Technology Satellite [ERTS-A]*. Springfield, Va., National Technical Information Service, 1972 (1973), 247 p. (PB-224 734/AS) HC \$14.50; MF \$1.45.

## New LC Publications

*LC science tracer bullets*. The Reference Section of the Library of Congress' Science and Technology Division (10 First Street, S.E., Washington, D.C. 20540) has issued *Science tracer bullets* on *Wind power* (TB 73-17, compiled by Jane Collins) and on *Tidal power* (TB 73-19, also compiled by Jane Collins). 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.

*Selected information resources on natural disasters* (SL 74-1). February 1974, 19 p. Compiled by the Science and Technology Division's National Referral Center, this is an informal listing of 88 organizations having specialized knowledge about various forms of natural disasters. Some of the organizations are listed under specific headings, including earthquakes, floods, ocean waves-tides-tsunamis, volcanoes, hurricanes-tornadoes-severe storms, frost, forest fires, and drought. Others are listed under the heading "general and multidisciplinary." Each entry in the list gives the name, address, and telephone number of the organization and a brief description of the information services it provides. Copies of the listing may be obtained free from the National Referral Center, Science and Technology Division, Library of Congress, Washington, D.C. 20540.

## Members in the News

JULIE H. BICHTLER, assistant professor, Graduate School of Library Science, The Univ. of Texas at Austin, has been appointed by the American Society for Information Science to a 3-year term as ASIS liaison representative to GIS.

AMY BUMBERG, U.S. Geological Survey Library, has accepted a position as Assistant Chief of Access Services, Smithsonian Institution Libraries, Wash., D.C., as of April 15. On May 19 Ms. Bumberg is planning to be married; her new surname will be Levin.

BARBARA CHAPPELL recently resigned her position as Geological Sciences Librarian at the University of Texas to move to Washington, D.C. where her husband has accepted a job with HUD (Housing and Urban Development). Although busy at present getting settled in her new home, she is looking forward to continuing her career in geoscience information.

GEORGE R. DALPHIN, Reference Librarian at Sandia Laboratories, Albuquerque, has been appointed Honorary Consultant in Map Librarianship to the University of New Mexico Library. The role is an advisory one designed to provide guidance in collection improvement and management.

JAUNETTE EAGLESFIELD, Librarian, Geological Sciences Library, Harvard University, is President of Harvard University Library Club during the academic year 1973-74.

In July 1973 ROBERT FELIX defended his doctoral dissertation at the State University of Utrecht, The Netherlands. It is entitled *Oligo-Miocene stratigraphy of Malta and Gozo* and has been published as *Wageningen Landbouwhogeschool Mededelingen 73-20* (1973) 103 p. (UDC 551.781.53/551.782.12:563.12:551.351.552.58 (458.2).

WILLIAM H. MATTHEWS III, director of education, American Geological Institute, and a faculty member at Lamar University, Beaumont, Texas, and Robert E. Boyer, University of Texas, Austin, are supervising a new edition of the *Dictionary of geology*. The publication is an abridged, paperback edition of the *Glossary of geology*, which was published by AGI in 1972. Matthews is also science adviser to Encyclopaedia Britannica for the AGI/EBE film series.

TIMOTHY C. O'CALLAGHAN is editor of *Bibliography on geophysical, geochemical, and geological effects of nuclear events*, published in 1973 by General Publishing Services, Alexandria, Va. (48 p., *Bibliographies in science series*, no. 1, \$5.00).

GEORGE J. SNOWBALL is attempting to collect information on the 1973 activities of Canadian members of GIS for publication in *Geoscience documentation*. He is an associate editor of that publication.

KEITH YOUNG'S book *Geology: The paradox of earth and man* will be published by Houghton Mifflin, Boston, in late March or early April 1974.

## New Members

FREEMAN, ROBERT R.  
Deputy Director, Environmental Science Information Center  
National Oceanic and Atmospheric Administration  
3300 Whitehaven St., NW  
Washington, D.C. 20235

HEIKEN, JODY  
Photolibrarian, Lunar Science Institute  
3303 NASA Road #1  
Houston, Texas 77058

JENSEN, RAYMOND A.  
Manager, Water Resources Scientific Information Center  
Office of Water Resources Research  
U.S. Dept. of the Interior  
Washington, D.C. 20240

KIDD, CLAREN M.  
Geology Librarian, University of Oklahoma  
401 West Brooks  
Norman, Oklahoma 73069

MURPHY, JOANNE STANEK  
Senior Information Analyst, Franklin Institute Research Laboratories  
20th and the Parkway  
Philadelphia, Pa. 19103

WALSH, MARGUERITE  
Student  
6 Kilburn Road  
Garden City, New York

YUGO, SUSAN  
Assistant Geology Librarian, University of Illinois  
Geology Library  
223 Natural History Building  
Urbana, Illinois 61801

## USGS' National Cartographic Information Center

Source: *Bibliography, documentation, terminology*, v. 13, no. 6, Nov. 1973, p. 358.

The U.S. Geological Survey has enlarged its Map Information Office (MIO) into the National Cartographic Information Center (NCIC).

It will act as the national clearinghouse for cartographic information. The organization will catalogue and classify data; devise and encourage use of standards descriptors for data; design and operate a communication network between user information centres and data repositories, and publish acquisition lists and catalogues. The Map Information Service has on file more than 100,000 topographic maps published by U.S.G.S., including historical and out-of-print maps, of which 34,000 are currently distributed. These maps will be converted to 105-mm colour microfilm files for viewing.

The standard 7½ minute quadrangle map will be reduced seven times on a 4" by 6" microfiche, which can be magnified 16x to 20x in standard microfiche viewers to give a larger-than-original image in full colour on the screen.

A standard 7½ minute map will be reduced 19.14 times on black-and-white aperture cards, which can be cheaply duplicated as another card or printed at less than original scale (18" by 23") on standard viewer copying machines for about 25 cents. U.S.G.S. also has an ITEK 2436 reader/printer that will reproduce the map at original scale and with high fidelity, but at greater cost (about \$1).

Further information may be obtained from D.L. Pinkerton, Chief, Map Information Office, U.S.G.S., Washington, D.C. 20242.

### Cartomatique, Geographical Info' Retrieval System

Cartomatique, a geographical information retrieval system, is operated jointly by The National Library of Canada and le Service d' Analyse et d' Indexation, Bibliothèque de l' Université Laval. It assembles on coded microfilms "non-autonomous" maps from theses, periodicals, and other publications not easily accessible to users. Maps have been indexed from Honor B.A. papers in geography, Laval University; M.A. and Ph.D. theses in geography, forestry and geodesy, Laval University; M.A. and Ph.D. theses in geography at McGill University and Montreal University and such journals as: *Cahiers de géographie de Québec*, *Revue canadienne de géographie*, *Revue de géographie de Montréal*, *Le Naturaliste canadien*, *Annals of the Association of American Geographers*, *Travaux et documents*, *Centre d' Études Nordiques* and *Nordicana*.

Users can have direct access to the data bank or they can make bibliographic or documentary requests by contacting:

The National Library of Canada  
Public Archives Bldg.  
Sussex Drive  
Ottawa, Ontario  
Telephone: (613) 996-3268  
Telex: 053-4311

or

Cartomatique  
Service d' Analyse et d' Indexation  
Bibliothèque de l' Université Laval  
Québec, Canada G1K 7P4  
Telephone: (418) 656-3441  
Telex: 011-3560

In 1972 the information system consisted of 10,000 maps; each year since it has increased its holdings 8-10,000.

Cartomatique plans during 1973/74 to analyze cartographic documents in master's and doctoral theses in all Canadian geography departments.

### GSA Service Representative to Attend Geological Meetings

Ms. Lee Swift, Customer Service, Geological Society of America, reports that she will be at all GSA section meetings, as well as at the AAPG-SEPM and AGU meetings. Lee cordially invites all GISers who will attend these meetings to stop at the GSA booth to examine GSA's latest books and to chat about orders, especially standing orders for libraries and geology departments. Also, Lee wants everyone to know that GSA is having a half-price sale of their books on paleontology—excluding the *Treatise on invertebrate paleontology*. Write or phone Lee for the flyer on this offer if you have not received it. (3300 Penrose Place, Boulder, Colo. 80301. Phone: 303/447-2020).

### 1974 GIS Officers

PRESIDENT: Dr. Evelyn Sinha, Principal Investigator, Ocean Engineering Information Service, P.O. Box 989, La Jolla, Calif. 92037 (714/454-1922)

VICE-PRESIDENT and PRESIDENT-ELECT: Jack L. Morrison, Project Director, Oil Information Center, Univ. of Oklahoma Research Institute, Norman, Okla. 73069 (405/321-6812)

SECRETARY: Ruth L. Keefer, Reference Librarian, Technical Information Section, Field Research Laboratory, Mobil Research and Development Corp., 3600 Duncanville Road, Dallas, Tex. 75211 (214/331-6531, ext. 524)

TREASURER: Aphrodite Mamoulides, Head Librarian, Shell Development Co., P.O. Box 481, Houston, Tex. 77001 (713/667-5661, ext. 633)

The *GIS newsletter* is published bi-monthly in February, April, June, August, October and December by the Geoscience Information Society. Subscription to the *Newsletter* is \$10.00 per year and is included in the Society's annual membership dues. All correspondence relating to dues, membership status and address changes should be directed to the GIS Secretary:

Ruth L. Keefer  
Reference Librarian, Technical Information Section  
Field Research Laboratory  
Mobil Research and Development Corporation  
3600 Duncanville Road  
Dallas, Texas 75211

GIS members are invited to contribute articles or news of general interest to the membership. Please submit all material to the Editor.

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