

## N E W S L E T T E R

no. 16

June 1971

### 1971 GIS ANNUAL MEETING in WASHINGTON, D.C.

The 6th Annual Meeting of the Geoscience Information Society will be held in Washington, D.C., in conjunction with the meetings of the Geological Society of America and its associated societies, 1-3 November 1971. Hard at work since mid-February, the GIS Program Committee (chaired by George H. Goodwin, jr. of the U.S. Geological Survey, and including Bill Long, Robert McAfee, Thomas Rafter, and Joseph Riva) has put together what looks to be a most interesting program.

At GIS President Burk's suggestion, the Program Committee has taken the report prepared by the American Geological Institute's Committee on Geoscience Information (see footnote below) and used it as the foundation of the Technical Program to be held Monday, November 1st, from 1:30 p.m. to 5 p.m. The theme of the program is: Toward the Development of a Geosciences Information System.

The speakers (in the order of their appearance), their current affiliations, and their topics:

Dr. Athelstan F. Spilhaus, jr., Executive Director, American Geophysical Union, Washington, D.C.: Geoscience Publications

Stella Keenan, Executive Secretary, National Federation of Science Abstracting & Indexing Services, Phila.: Bibliographic Control and The-

Wallace C. Olsen, Library Liaison Officer, National Agricultural Library, Beltsville, Md.: Library Networks

Dr. S.C. Robinson, Geological Survey of Canada, Ottawa, and Chairman, IUGS Committee on Storage, Automatic Processing and Retrieval of Geological Data: Data Standardization

Dr. Frank Mannheim, U.S. Geological Survey, Woods Hole, Mass.: Translations

American Geological Institute. Dept of Geoscience Information (Dec 1970) A concept of an information system for the geosciences. Washington, D.C. 23p. Copies of the report are being sent to all GIS members with the mailing of this newsletter.

John Price, National Referral Center for Science and Technology, Library of Congress, Washington, D.C.: Resource Inventory

Joseph P. Riva, jr., Science Information Exchange, Smithsonian Institution, Washington, D.C.: Research in Progress

The moderator for the entire program will be GIS President, Dr. C.F. Burk, jr., of the Canadian Centre for Geoscience Data, Geological Survey of Canada, Ottawa. The presentation of papers will be followed by a question-and-answer period. The hotel assignment will not be known until August, but it will be either the Sheraton-Park or the Shoreham.

The GIS Business Luncheon is scheduled for Tuesday, November 2, starting at noon. There will be a cash bar from 12 to 12:30, followed by lunch from 12:30 to 1:15 and the GIS annual business meeting from 1:15 to 2. The hotel location and the price of the lunch will be announced in the next Newsletter.

GIS members Hartley K. Phinney (Chevron Research Co., La Habra, Calif.) and Elizabeth M. Loomis (Mobil Oil Canada, Calgary) are co-chairmen for a Workshop which will discuss the pros and cons of geologic guidebooks, their publication, availability, distribution, etc. For all of you who have ever experienced moments of high frustration (and that includes just about all of us!) in attempts to locate elusive guidebooks, this Workshop promises to be a "must" on your list of meetings to attend.

Plans for the Workshop are still in the formative stage but the chairmen indicate that several guidebook editors and librarians will be heard from. As the result of an open discussion, it is hoped that guidelines can be established which will benefit both producers and users. The Workshop is scheduled for Tuesday, November 2, immediately following the GIS Business Luncheon. At this writing, the time slot for the Workshop would seem to be 2 to 4 p.m.

GIS will also offer an all-day Field Trip on Wednesday, November 3, the last day of the GSA meetings. A committee under the chairmanship of Myrl Powell (Subject Cataloging Division, Library of Congress) is already at work on planning the trip. Arrangements have been made to visit the following facilities in and around the Washington, D.C., area:

Library of Congress. There will be a general tour of the library and representatives from the MARC Project and the Geography and Map Division will present brief talks. A morning coffee break is scheduled here.

National Agricultural Library in Beltsville, Md. There will be a one-hour tour of this modern library building and a discussion of the Agricultural Sciences Information Network (ASIN) project.

Geophysical Sciences Library of the National Oceanic and Atmospheric Administration (formerly of the Environmental Science Services Administration) in Rockville, Md. There will be a brief tour of the library and a talk by a representative from the National Oceanographic Data Center.

U.S. Geological Survey Library. The trip will end here with a tour highlighted by a display of rare maps and books.

The Field Trip plans tentatively call for visits to two of the institutions in the morning and two in the afternoon. A very brief visit to the National Library of Medicine may be scheduled if time permits. The group will lunch in a private room at a very good and reasonably priced cafeteria. The cost for the trip will be \$5.00 per person, exclusive of lunch.

Present plans also call for the bus to stop at the Downtown Airlines Terminal (12th & K Streets, N.W.), which serves all three Washington-area airports, at the end of the trip. If there is enough interest we might be able to keep the bus an extra hour and make a final run to Washington National Airport. Participants could bring their luggage aboard the field-trip bus and be discharged directly for a late-afternoon or early-evening flight.

GIS will have an exhibit booth at the GSA meeting. Mark W. Pangborn, jr. (U.S. Geological Survey Library) has prepared two 4' x 5' panels depicting the information explosion in the geosciences and a map showing the distribution of major geoscience libraries and collections. Mr. Pangborn would be interested in hearing from GIS volunteers willing to babysit the GIS booth; those willing to do so on a part-time basis are asked to check the box on the last page of this newsletter.

Further details and information regarding the Technical Program, Business Luncheon, Workshop, and Field Trip will be included in the GSA circular to be published in the August 1971 issue of Geotimes and in GIS Newsletter no.17 (issued just prior to the meeting). In the meantime, the planning committees request that those GIS members planning to attend the various GIS functions kindly check the appropriate boxes on the last page of this newsletter and mail the form to the Newsletter editor, Robert McAfee, jr., American Society for Information Science, 1140 Connecticut Ave, N.W., Suite 804, Washington, D.C. 20036.

## DUES

To those GISers who promptly paid their 1971 dues, GIS Treasurer Howard B. Shirley extends his appreciation. To those members who have yet to pay their \$10 dues, the 1st of July is the deadline date for renewing membership in GIS.

Only the names of paid-up members will appear in the 1971 Membership Directory and on the mailing-list files to receive Geotimes. Dues can be paid by check, payable to the Geoscience Information Society, and mailed to Mr. Shirley, GIS Treasurer, Information Operations Division, Battelle Memorial Institute, 505 King Avenue, Columbus, Ohio 43201.

## GUIDEBOOKS

The Guidebooks and Ephemeral Materials Committee (Elizabeth M. Loomis, chairman) has submitted manuscript copy to the printer for the 2nd edition of Geologic field trip guidebooks of North America. It is planned that the new edition will be available later this summer.

## GISers in PRINT

Clayton, Keith M. (Dec 1969) Periodical literature survey in the fields of geography, geomorphology and geology. Norwich, England: Univ of East Anglia, School of Environmental Sciences. 11p.--- Final report submitted to the Office for Scientific and Technical Information, London.

Easton, William W. (1969) Recent developments in automating the Illinois State University Map Collection. Association of Canadian Map Libraries. Annual Conference. 3rd, Univ Laval, June 1969. Proceedings, p.55-71.

Freeberg, Jacquelyn H. (Sept 1970) Bibliography of the lunar surface. Washington, D.C.: U.S. Dept of the Interior. 347p. (NTIS PB-194 206).

Llavérias, Rita K., and Lowe, D.G. (Oct 1970) Remote sensing bibliography for earth resources, 1968. Washington, D.C.: U.S. Geological Survey. 260p. (NTIS PB-195 748; 95¢ microfiche)

Sinkankas, John (1970) Prospecting for gemstones and minerals. N.Y.: Van Nostrand Reinhold. 397p. ---The 2nd edition of a 1961 work entitled Gemstones and minerals: how and where to find them.

COMMITTEE on STORAGE, AUTOMATIC PROCESSING  
and RETRIEVAL of GEOLOGICAL DATA (COGEODATA)  
of the  
INTERNATIONAL UNION of GEOLOGICAL SCIENCES (IUGS)

The COGEODATA Committee was established at a meeting of the IUGS Executive Committee in Antwerp in January 1967 for the following purposes:

- 1) Establishment of those factors that are common to records of data of all or most fields of the geological sciences: geographic coordinates, reference numbering, standard descriptive terminology, mnemonic coding, and provisions to ensure consistency in the data recorded and in the terms, units, and codes to record them.
- 2) Choice and development of formats for a number of machine-processible files, at first limited to five or six, in fields such as mineral deposits, geochemistry, mineralogy, geochronology, paleontology, and petroleum geology (or fossil fuels), then expanded to meet the requirements of the other fields.
- 3) An appraisal of existing systems for storing geologic and allied data, and of uses made of data stored in machine-processible form.
- 4) Production of an international index to geologic data, and the equivalence of multilingual terms.

Membership of COGEODATA

National committees of member countries of IUGS were asked to submit names of specialists in the field. From these nominees, the IUGS Executive Committee selected the original members. With a few subsequent additions the present (January 1971) membership of the committee is:

S.C. Robinson	(Canada), chairman
P. Laffitte	(France), deputy chairman
A.A. Beus	(USSR), secretary
A. Hubaux	(Italy), research secretary
J.B. Chase	(USA)
G.Y. Craig	(Scotland)
D.F. Davidson	(USA)
H. de la Roche	(France)
A.O. Herrera	(Argentina)
J. Hruska	(Czechoslovakia)
Th. Hugli	(Switzerland)
B. Melendez	(Spain)
D.A. Pretorius	(South Africa)
R.A. Reymont	(Sweden)
M. Roubault	(France)
M.V.A. Sastry	(India)
G.H. Scott	(New Zealand)
V. Shimazaki	(Japan)

The membership is thus representative of the various continents and of many language groups, and, at the same time, of the different fields of the geologic sciences in which data processing has already been developed or is urgently needed.

The original committee was greatly strengthened in 1968 when the IUGS Commission on Economic Elements in the Earth's Crust, at the suggestion of its chairman, P. Laffitte, joined COGEODATA as a working group in the general field concerned with data of economic geology. Shortly thereafter, the IUGS Committee on Storage, Automatic Processing and Retrieval of Geochemical Data (M. Roubault, chairman) also joined COGEODATA as a working group in geochemistry. These two vigorous groups have made major contributions to the objectives of COGEODATA both before and since joining. In the list of reports and publications all output of these two groups is included.

Organization and Meetings

Like most international scientific organizations, COGEODATA depends almost entirely on voluntary contributions of its members and the organizations to which they belong, both for the work accomplished at the expense of their other duties, and in large measure for traveling funds. IUGS has made limited funds available for travel and clerical support which, in terms of its own overall budget, has been generous. Particularly grateful acknowledgement is made to Euratom which has permitted the research secretary, A. Hubaux, to devote a significant proportion of his time to affairs of the committee, and thus in large measure contributed to progress of the past three years.

In these circumstances, the committee has been fortunate in the opportunities some of its members have had to meet. The chairman in 1967 met all members then in Europe and North America, and also G.H. Scott from New Zealand. As a result of these meetings, each member was asked to keep a specific list of countries informed of the committee's activities and to keep the committee briefed on geodata activities and needs of those countries. Also, the nuclei of several working groups (geographic location, reference numbering, applications to paleontology, parameters that should be recorded in order to describe rocks, and compilation of a bibliography on reports of interest to the committee) were established.

The first plenary session of the committee was scheduled with a full agenda late in the 23rd International Geological Congress at Prague, but the invasion of Czechoslovakia intervened and the meeting had to be cancelled. Subsequently business of the committee has been carried on by correspondence and at the following regional meetings:

- 1) In October 1968 in Ottawa, four members met and drafted preliminary recommendations for consideration by the committee on (a) an international index, (b) geographic location, (c) need for standardization of geologic nomenclature, (d) coding, (e) specific data files, and (f) future meetings and work of the committee.

- 2) In April 1969 a travel grant from IUGS enabled 8 European members and the chairman to meet at Ispra;

Lake Maggiore, Italy. Approximately 10 observers also attended. Major topics discussed were: reference numbering; geographic location, by coordinates and by country; computer files in paleontology; parameters needed to describe rocks; coding, including semantic coding; bibliography on storage, retrieval, and coding systems; files on economic elements in the Earth's crust; files on hydrogeologic data; files on geochemical data; the forthcoming International Geological Correlation Program; contacts with national committees; the International Association for Mathematical Geology; an international index to geologic data; a proposed questionnaire on geologic data files; and cooperation with CODATA, the International Mineralogical Association, the IUGS Committee on Geological Documentation, and the International Association of Geochemistry and Cosmochemistry.

3) In September 1969 three members of COGEODATA were invited by IUGS/Unesco to attend a meeting to plan the International Geological Correlation Program (IGCP). Their interest was primarily in the tasks of Working Group 4, devoted to "promotion of quantitative methods and data processing". This group recommended: a) establishment of standard computer programs; b) standards for geographic location; c) use of semantic coding for rock names, chronostratigraphic units, etc.; and d) use of standard check lists for recording data in mineral deposits, petrology, geochemistry, paleontology, stratigraphy, geochronology, tectonics, and geophysics.

4) In September 1970 eleven members of the committee met at Fontainebleau with the secretary general of IUGS, Dr. Tocatlán of Unesco, Joel Lloyd of the American Geological Institute, and 16 other observers from Britain, Canada, France, Italy, Spain, and the United States. Two days were devoted to deliberations of working groups and the final two days to plenary meetings of the committee. Six brief reports were approved by the committee for recommendation to IUGS, on the following subjects: "description des roches"; "l'enregistrement des données géochimiques sur les fichiers ordinateurs échangeables"; geographic location; metallogenic and mineral deposit files; reference numbering; & stratigraphy and paleontology.

#### Plans for 1971/1972

It is hoped that a 10-man international working group, chaired by P. Laffitte (associate director, Ecole des Mines, Paris), will meet to draw up specifications for standard computerized files on the geology of mineral deposits. These specifications will include a check list of desirable observations and measurements for all types of mineral deposits and their geologic settings, supplemented by additional lists for specific types of deposits.

The research secretary is expected to travel in North America and Europe seeking additional information on types of computerized files currently in

use or being developed. This information will supplement results of a questionnaire that has been widely distributed, and provide a first summary of use of computer-based storage and processing of geologic data. Information and copies of the questionnaire are available from Dr. A. Hubaux, CETIS, Euratom, 21020 Ispra (Varese), Italy.

The affiliation of organizations active in computerized storage and retrieval of geologic data as advisors to the committee and appraisers of its proposals is expected to guide, strengthen, and broaden the committee's activities. Working groups of the committee in petrology (including practical tests of rock nomenclature) and in geochemistry are expected to be particularly active.

At plenary sessions of the committee during the 24th International Geological Congress at Montreal in August 1972, a full review of the committee's progress and recommendations will be undertaken, together with plans for the period 1972-1976.

(This article was prepared by Dr. S.C. Robinson, chairman of COGEODATA, Geological Survey of Canada, 601 Booth St, Ottawa 4, Ontario, Canada)

#### COMMITTEE ON GEOLOGICAL DOCUMENTATION of the INTERNATIONAL UNION OF GEOLOGICAL SCIENCES (IUGS)

The structure of the Committee on Geological Documentation: (1) an Executive Board consisting of L. Delbos (France), chairman, and W.P. van Leckwijck (Belgium), Mrs. M. Okko (Finland), A. Wätzner (East Germany), and R.E. Howie (U.K.); and (2) an Automation Board consisting of J. Hruska (Czechoslovakia), chairman, and H. Glashoff (West Germany), J.J. Lloyd (U.S.), J. Gravestijn (France), and A. Hubaux (Euratom).

There is one member for each continent or region. The committee and especially the Automation Board must promote the contacts between existing documentation centers in the field of earth sciences and coordinate the work done in these centers, especially the American Geological Institute, the Bureau de Recherches Géologiques et Minières (BRGM), the Bundesanstalt für Bodenforschung (Hanover), Geofond (documentation center of the Geological Survey of Czechoslovakia), and VINITI (U.S.S.R.).

The committee stresses the importance of cooperation with the international documentation associations, especially with the Abstracting Board of the International Council of Scientific Unions and the IUGS Working Group concerned with the earth sciences thesaurus and the Working Group on classifications.

The multilingual thesaurus that is now in study should be presented at the 24th International Geological Congress to be held in Montreal in 1972. At present, the BRGM thesaurus has been translated

in German by H. Glashoff. The preparation of reviews has been, for several years, the principal activity of the committee and this task will be continued and intensified. Commissions and committees of the IUGS will be asked to establish small working groups which will explore the need of review articles in their special field and try to find authors who are willing to write such reviews on behalf of the Committee on Geological Documentation. Different authors for one review should be selected, preferably on a regional basis (e.g. East Europe-West Europe, America-Asia).

The committee is in very close contact with the IUGS Committee on Storage, Automatic Processing and Retrieval of Geological Data (COGEO DATA) and with the International Mineralogical Association. These organizations are represented on the Committee on Geological Documentation.

(This article was prepared by L. Delbos, chairman of the Committee on Geological Documentation, Centre Scientifique et Technique d'Orleans-Lasource, Boite Postale 555, Orleans, France)

#### NEWS from the AMERICAN GEOLOGICAL INSTITUTE

The AGI Committee on Geoscience Information has been reconstituted with the following members: Dr. Robert Van Nostrand (chairman), Dr. George Becraft, Dr. Anthony Coates, Dr. James Mello, Dr. Athelstan Spilhaus jr., and Dr. Kenneth Weaver. This committee, which has been selected for their interest in the problems of information transfer, is Washington-based and plans to meet monthly in order to maintain an active overlook at the national and international problems and the relationship of the geosciences to developments in other disciplines.

Administrative changes for the GEO-REF system: Dirgham Salahi has been appointed editor-in-chief; Phil Johnson will be in charge of all tape manipulation, retrospective search, and lease and sale of tapes; and Mrs. Dorothy Harter has been named manager of production.

The Information Science Unit of the Univ of Georgia Data Center has acquired a full set of GEO-REF tapes which will be used to service inquiries addressed to their facility. The Library of the Geological Survey of Canada will receive GEO-REF tapes monthly beginning with the March 1971 issue to provide SDI services in that country.

An invitation-demonstration of the search capabilities provided by GEO-REF tapes was presented recently to the faculty and graduate students at the Univ of Texas at Austin. A departmental committee has been appointed to make further recommendations on tape acquisition or direct access via console for the university's use.

The National Academy of Sciences has accepted a national membership in the Abstracting Board of the International Council of Scientific Unions (ICSU/AB) and a permanent U.S. National Committee will be named later this year. An ad hoc committee has been organized under the chairmanship of Scott Adams. Joel Lloyd of AGI is a member of the ad hoc group.

A meeting was held in Paris in March 1971 of the ICSU/AB Working Group for a Multilingual Thesaurus in Geology. Structural geology and tectonics have been selected as a pilot project and marked progress was made. The group will meet again in July.

#### GEOSCIENCE INFORMATION ACTIVITIES in CANADA

##### Geoscience Indexing '71 Workshop, Calgary

The Canadian Centre for Geoscience Data and the Univ of Calgary sponsored a workshop on the techniques used by the Canadian index to geoscience data, 3-7 May 1971, which was attended by 18 registrants, mainly from the Calgary area. Included were several GIS members. Each registrant produced a coordinate keyword index to his own selection of documents using the SIS-II system installed at the university. Tentative plans are being made to repeat the workshop in eastern Canada in November 1971.

##### Preliminary Studies on Canadian Geoscience Information Program

At their Calgary meeting in February, the Subcommittee on Computer Applications (D.A. Sharp, chairman) discussed the numerous computer-based information services now available to Canadians, and prepared recommendations to the National Advisory Committee on Research in the Geological Sciences designed to make the most effective use possible of these various services. Hopefully, these recommendations will lead to development of a defined national information program for geoscience in Canada parallel to efforts now underway in the United States through the American Geological Institute.

##### Computer-based Mineral Deposits Information Network in Canada

During the past year, considerable activity in Canada has developed with respect to building large computer-based data files on Canadian and other mineral deposits. The Mineral Deposits Working Committee, under the chairmanship of Dr. P.G. Sutterlin (Univ of Western Ontario), has met twice since November with most workers in this field in order to develop a minimum set of standards for recording mineral deposits data. Agreement has now been reached on standards for such information as geographic location, mineral-deposit names, commodities, and geology. Data compilation activities using these standards are expected to be high during the next few months. This work has been coordinated by the Canadian Centre

for Geoscience Data with a view to establishing a prototype network for the Canadian System.

#### Field Data Experts Meet in Vancouver

A two-day meeting in March 1971 of the Field Data Working Committee (W.W. Hutchison, chairman) was held to discuss recent progress in applying computer-oriented techniques for the collection of geologic field data and the automated production of maps and other illustrations. The concept of applying modern technology to field-data collection is gaining increased acceptance by many Canadian agencies, particularly the Quebec Dept of Natural Resources, the Manitoba Mines Branch, and the Geological Survey of Canada. Several mining companies and petroleum companies are also active in this field. An example of this work was recently published in the Canadian journal of earth sciences, v.7, no.6, by H.R. Wynne-Edwards & others, "Computerized geological mapping in the Grenville Province Quebec".

#### New Computer System for Producing Canadian Index to Geoscience Data

The Computer Science Centre of the Canadian Dept of Energy, Mines & Resources recently completed work on a new computer-based coordinate indexing system called RAID (for Reference Aid) which will replace the SIS-II system previously used to produce the Canadian index to geoscience data. RAID will provide for the same input and output as the previous system but will operate more economically and with greater flexibility. A major objective of RAID has been to provide for as much "portability" as possible. It is expected that the system will be made available to the general public when documentation has been completed and the system has been thoroughly tested. Inquiries should be forwarded to the Canadian Centre for Geoscience Data, Geological Survey of Canada, 601 Booth St, Ottawa 4, Ontario, Canada.

#### Canadian Centre for Geoscience Data Implements SAFRAS System

A dramatic increase in the utilization of computers for data storage and retrieval is expected to result from the increasing availability of generalized data systems. An example is the SAFRAS system designed by Dr. P.G. Sutterlin of the Univ of Western Ontario. The system was recently implemented for the Canadian Centre for Geoscience Data and its use is now available to the public. Because of its generalized nature, it is now possible to create customized data storage and retrieval systems at costs in the order of \$25.00 per system, as compared with costs for conventional systems ranging characteristically between \$10,000 and \$100,000. The Canadian Centre for Geoscience Data intends to use the system as a means for promoting and assisting in the development of computer-based data files amongst government agencies, industry, and universities in Canada. SAFRAS has also been implemented at several other institutions in Canada and inquiries should be directed to Dr. Sutterlin.

#### DISSERTATION ABSTRACTS INTERNATIONAL

University Microfilms has published Dissertation abstracts international: retrospective index, a 9-volume, single-source, cumulative keyword index to the first 29 volumes (1938 through June 1969) of Dissertation abstracts (DA). The new index lists more than 150,000 doctoral dissertations accepted by over 250 universities in the U.S. and Canada.

Each volume is subdivided by subject. Each entry gives the author's name, the title of the dissertation, the institution where it was written, the year of its publication, and the volume and page number of DA containing the abstract for the dissertation.

Volume III of the index is Earth/Life Sciences. Volume IX is the Author Index. Each individual subject volume is available at \$98, the Author Index alone at \$225, and the complete 9-volume set at \$995. Contact: University Microfilms, A Xerox Company, 300 North Zeeb Rd, Ann Arbor, Michigan 48106.

#### GISers in the NEWS

Sara Aull has resumed her position as science librarian at the Univ of Houston after serving one year as acting assistant director for public services in the university library. She is a member of the Planning Committee of the Special Libraries Association.

Robert A. Bier, jr., formerly of the Science Information Exchange, has received a M.L.S. from the Univ of Maryland and is now the assistant map curator at the U.S. Geological Survey Library in Washington, D.C.

Mrs. Amy E. Bumberg has resigned as head librarian of the geology library at the Univ of Minnesota because her husband was transferred to New York City.

David K. Carrington, project coordinator and assistant head of the Processing Section of the Library of Congress' Geography and Map Division, received a Meritorious Service Award and a cash award of \$175 for "the outstanding part he played in adapting the MARC format for map input and compilation of the MARC-map data preparation manual" and for "a high level of competence, industry, resourcefulness, cooperation, and supervisory ability" during the developmental phase of the project.

Mrs. Josephine Wells Cooper is engaged in the preparation of an annotated bibliography of fossil and recent Brachiopoda.

Logan O. Cowgill, assistant manager of the Dept of the Interior's Water Resources Scientific Information Center, has been named as the Special Libraries Association representative to Standards Committee Z39 on Library Work, Documentation, and Related Publishing Practices of the American National Standards Institute.

William W. Easton, map librarian at Illinois State Univ, is chairman of the Geography and Map Division of the Special Libraries Association.

Harriet K. Long, earth sciences librarian at Washington Univ in St. Louis, is chairman of the Personnel Policy Advisory Committee of the university libraries.

H. Robert Malinowsky, assistant director of libraries at the Univ of Kansas, is the 1971 editor of the science and technology section of American reference books annual published by Libraries Unlimited Inc, Littleton, Colo. The annual is an annotated bibliographic guide to reference books in a given calendar year.

Howard A. Meyerhoff, consulting geologist in Tulsa, was awarded the Legion of Honor (50-year membership) of the American Institute of Mining, Metallurgical, and Petroleum Engineers. He has prepared a 60,000-word article on the geology of oil and gas in the U.S. for volume 8 of E.N.I.'s encyclopedia of petroleum and natural gas.

Richard E. Morehouse has been promoted to Science Librarian at the Univ of Colorado.

Timothy C. O'Callaghan has resigned as manager of the American Geological Institute's GEO-REF in order to open a consulting office.

Mark W. Pangborn, jr., map curator at the U.S. Geological Survey Library, has been elected 1971/1972 chairman of the Geography and Map Group of the Washington Chapter of the Special Libraries Association.

Michael J. Passow (earth sciences and oceanography teacher at New Lincoln School, 31 Central Park North, New York, N.Y. 10026) is developing a high school-level course in oceanography and invites inquiries from other interested GIS members.

Daniel Pauli, librarian at Gulf Oil Canada Ltd, has been a councillor of the Library Association of Alberta since May 1970.

Myrl D. Powell, formerly head of the life sciences section of the Subject Cataloging Division of the Library of Congress, is now assistant to the principal cataloger of the division.

Ross L. Shipman, formerly assistant executive director of the American Geological Institute, is now research program manager on the staff of the Texas Bureau of Economic Geology, Austin.

George J. Snowball of Sir George Williams Univ in Montreal is honorary editor (national exhibits) of the Exhibits Committee for the 24th International Geological Congress to be held in Montreal in August 1972. The committee is arranging the commercial and national exhibits exhibition of the Congress, under the name Georama 72.

Arleen N. Somerville, science librarian at the Univ of Rochester, is editor and business manager of the Special Libraries Association's Metals/Materials Division News for 1970-1971.

John F. Spletstoeser, associate director of the Institute of Polar Studies, Ohio State Univ, in August 1970 was in Oslo, Norway, to attend the 2nd International Symposium on Antarctic Geology and Geophysics, and in Alaska to attend the Alaskan Science Conference in Fairbanks and to participate in field trips to the Naval Arctic Research Laboratory in Barrow and the Prudhoe Bay oil exploration area.

Dorothy B. Vitaliano of the U.S. Geological Survey was a participant in the Surtsey-Iceland Environmental Institute, organized by the Boston College Environmental Center, 15 June to 2 July 1970. The group (of about 22) consisted of geologists, geochemists, and biologists interested in new environments, particularly the island of Surtsey created in an eruption in 1963-1967.

E.H. Wenberg (11675 Charter Oak Ct, Apt.T-1, Reston, Virginia 22070) is collecting information about geologic maps throughout the world (who made them and when, who sells them and their price) and putting these data on punched cards. He would like to exchange this map-availability information with anyone interested.

Bill M. Woods, executive director of Engineering Index, Inc., is the 1971-1972 President of the National Federation of Science Abstracting and Indexing Services.

Mary Louise Woods, formerly geological librarian at the Univ of North Dakota, married Michael Scott and is now preparing a bibliography of North Dakota geology for the North Dakota Geological Survey.

Keith Young, professor of geological sciences at the Univ of Texas at Austin, is co-chairman of faculty for the new Institute for Advanced Environmental Studies at the university. He led short courses in environmental geology for the American Geological Institute in Milwaukee (November 1970) and in Houston (March 1971).

#### NEW MEMBERS of GIS

Brownridge, Ina C.: Associate Librarian, State Univ of New York at Binghamton, Binghamton, NY 13903  
Chevron Oil Field Research Company, P.O. Box 446, La Habra, CA 90631

Kavanagh, Mrs. Nancy: Librarian, Ontario Dept of Mines & Northern Affairs, Whitney Block, Queen's Park, Toronto 5, Ontario, Canada

Lee, Lillian J.: Geology Librarian, Grant Memorial Library of Geology, Lucy Hall, Northwestern Univ, Evanston, IL 60201

Moody, Mrs. Jeanne C.: Senior Analyst, Herner & Co., 2100 M St, N.W., Washington, DC 20037

MISCELLANEOUS

A. Hubaux discusses "Are there critically evaluated data in geology?" in the Dec 1970 issue of CODATA newsletter (no.5, p.9-11).

The geologic sections of Bulletin signalétique (prepared by Centre National de la Recherche Scientifique, Centre de Documentation, 15 quai Anatole-France, Paris 7e) to be issued in 1971 are:

- 210. Minerálogie-géochimie-géologie extraterrestre-Pétrographie (120 F)
- 214. Géologie appliquée-Formations superficielles (80 F)
- 216. Géologie-Paléontologie (120 F)

The November 1970 issue of Special libraries (v.61, no.9, p.496-500) contains an article by Louis Kiraldi entitled "Courses in map librarianship". "There is no generally accepted or standardized method for training map librarians. The great variety of present methods, such as workshops, seminars, internships and relevant courses in general library science are mostly inadequate. Some suggestions and possible directions for further inquiry are discussed".

GIS OFFICERS

President: Dr. Cornelius F. Burk, jr., National Coordinator, Canadian Centre for Geoscience Data, Geological Survey of Canada, 601 Booth St, Ottawa 4, Ontario, Canada

Vice-President: George H. Goodwin, jr., Chief Librarian, U.S. Geological Survey, Washington, DC 20242

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SEE NEXT PAGE IF YOU PLAN TO  
ATTEND THE GIS ANNUAL MEETING  
IN NOVEMBER



6th ANNUAL MEETING  
of the  
GEOSCIENCE INFORMATION SOCIETY

1-3 November, 1971

Washington, D.C.

GIS members planning to attend the Annual Meeting are requested to complete this form so that the planning committees will have a better idea of expected attendance at the various functions.

- I plan to attend the GIS Business Luncheon scheduled for Tuesday, November 2.
- I plan to attend the GIS Workshop on Guidebooks scheduled to immediately follow the business luncheon.
- I plan to attend the GIS Field Trip scheduled for Wednesday, November 3. The cost will be \$5.00 per person, exclusive of lunch (do not send money at this time)
- I would like to be discharged at Washington National Airport.
- I would like to be discharged at the Downtown Airlines Terminal.
- I am interested in helping man the GIS Exhibit Booth on a part-time basis during the GSA annual meeting.

Please mail to:

Robert McAfee, jr.  
Editor, GIS Newsletter  
American Society for Information Science  
1140 Connecticut Avenue, N.W., Suite 804  
Washington, D.C. 20036