

1969 GIS CONVENTION in ATLANTIC CITY, New Jersey

The 4th Annual Convention of the Geoscience Information Society will be held in Atlantic City, N.J., in conjunction with the meetings of the Geological Society of America, 10-12 November 1969. The GIS convention will feature a workshop on editorial problems, a technical session on geoscience information, and a luncheon business meeting.

The Workshop on Editorial Problems will be held Monday, November 10th, from 9 a.m. to noon in the St. Giles Room on the lounge floor of the Chalfonte Hotel. It will explore some of the numerous problems generated for librarians and readers by publishers and editors--and vice versa. The moderator will be Gerald M. Friedman, professor of geology at Rensselaer Polytechnic Institute and editor of Journal of sedimentary petrology. Workshop panelists and their subjects:

1. Virginia Neuschel (U.S. Geological Survey)
ABSTRACTS: content, length, purposes, uses
2. Mark W. Pangborn (U.S. Geological Survey)
PUBLICATION FORMAT: citations, plates, and maps (legends, form, adaptability to machine cataloging)
3. William M. Passano (Williams and Wilkins Company)
COPYRIGHT and FAIR PRACTICE in COPYING: status of legal action; enforcement of controls
4. Thomas F. Rafter (American Geological Institute)
TRANSLATIONS: selection, accuracy, availability, publication, cost

The Technical Session on Geoscience Information will be held Monday, November 10th, from 2 to 5 p.m. in the Roberts Room on the lobby floor of the Chalfonte Hotel. Co-chairmen will be Bill L. Long (National Council on Marine Resources and Engineering Development) and Marjorie Hooker (U.S. Geological Survey). Six papers have been scheduled for the session:

1. Dan Gill (University of Michigan)
A computer-oriented method for the zonation of ordered data sets and its application to reservoir evaluation and digitized log analysis
2. Robert B. Sanders (Pennsylvania State University)
Information structure of descriptive paleontological studies
3. D.W. Moody and Olaf Kays (U.S. Geological Survey)
Application of the Generalized Information Processing System (GIPSY) to the storage and retrieval of earth sciences literature
4. Keith M. Clayton (University of East Anglia, Norwich, England)
Progress report on the United Kingdom geological literature project
5. Darinka Z. Briggs and Louis I. Briggs (University of Michigan)
A system of information analysis for geological documents
6. David H. Elazar (Wayne State University)
Orientation of graduate students to the geology library

The GIS business meeting will be held after lunch on Tuesday, November 11th, at noon in the Peacock Room on the dining floor of Haddon Hall Hotel (this is a change from the listing in the GSA Abstracts with programs). Reservations for the lunch should be made by Monday noon (November 10th).

GIS will have a booth in the exhibit hall and anyone willing to help man it should contact GIS Secretary Marjorie W. Wheeler. There will be no GIS field trip.

GIS members should have received, by now, Circular 2 of the Geological Society of America, describing the GSA meetings and including reservation forms for hotel rooms and field trips. Those members who have not received Circular 2 can obtain copies by writing to the Headquarters office of the GSA, P.O. Box 1719, Colorado Bldg, Boulder, Colo. 80302.

All who attend any technical session, exhibit, or special function are expected to register with GSA (fee is \$18) and wear the official registration badge. There will be no preregistration; however, registration desks will be adequately staffed so that there should be no long lines or delays. GSA recommends early arrival and registration (beginning at 10 a.m.) on Sunday, November 9th.

NOTE: GIS members who are not members of GSA may purchase the Abstracts with programs for 1969, pt.7 (which contains a complete program, all abstracts and discussion papers that have been accepted, and a schedule of events) for \$3.00, postpaid, if payment accompanies the order, or \$3.25 if a billing is requested. Send orders and make payments to the GSA, Inc, P.O. Box 1719, Boulder, Colo. 80302. Attention: Publication Sales.

PRESIDENT'S COLUMN

We hope to see many of our members in Atlantic City at the various functions held in connection with the Annual Convention of GIS. Completion of some of the Society's projects during the last year or so has been most gratifying. Some of these

projects and activities should be continued and expanded.

Guidebooks and other publications of geological societies is a case in point. Planning for a new edition of the bibliography and union list is under way. But we need a network of information sources all around the country and even abroad to provide: (1) information on what is being published; and (2) libraries that have the publications. We believe that GIS, with its unique combination of membership, is in an excellent position to promote the establishment of regional depositories for this type of publication.

Most of our geologist members belong to at least one local geological society or section of a national group. As generators of the publications, they could persuade their societies to make their guidebooks more accessible by: (1) supplying GIS with the information on how to obtain copies; and (2) placing one copy of each such publication in a regional or local library. Our librarian members can, we hope, agree on what libraries can or should act as depositories and provide, where necessary, assistance to those libraries in getting their holdings recorded and into the GIS bibliography and union list.

With the current edition of the bibliography and union list of geologic field-trip guidebooks, the directory of geoscience libraries, and the AGI-GIS report on geoscience library resources and services (see page 3 of this newsletter) as starting points, we plan to organize a network of information sources. As usual we welcome volunteers who would be able and willing to head up local or regional committees to evaluate the libraries and make the necessary contacts with them and the geological societies. The Executive Committee welcomes specific proposals for this or any other project from any member. Write to any of the officers or come to Atlantic City in November and bring your ideas along.

Eleanore E. Wilkins, GIS President

GIS ACTIVITIES

Guidebook and Ephemeral Materials Committee:
The new chairman of the committee is Mrs. Elizabeth M. Loomis, assistant science librarian at the Univ of Houston. The committee will work on compiling a new edition of the

"Geologic field-trip guidebooks of North America; a union list incorporating monographic titles", published in 1968 by Phil Wilson, Houston, under the auspices of the committee. We hope to expand coverage, both of libraries and publications. The committee welcomes suggestions and especially corrections and additions which users of the present edition can contribute. Send them to Mrs. Loomis, 570 Trianon St, Houston, Texas 77024.

Membership Committee: Chairman William Sanders (U.S. Geological Survey, 345 Middlefield Rd, Menlo Park, Cal. 94025) reports that the committee plans to recruit institutional members on a regional basis. Margarét E. Drewett (physical sciences librarian at Brown Univ) will be responsible for northeastern U.S.; Ruth L. Keefer (reference librarian at Mobil Research & Development Corp, Dallas) for southeastern U.S.; Carleton M. Clifford (supervisor of technical information services at Chevron Oil Field Research Co, La Habra, Cal.) for southwestern U.S. and the District of Columbia; and William Sanders for northwestern U.S., Canada, and foreign countries. The committee welcomes suggestions from the membership. Institutional membership costs \$10 and many organizations would be glad to support GIS in this way.

Nominating Committee: Chairman Jack L. Morrison (Univ of Oklahoma), assisted by Ida M. Dobler (Univ of California at Davis) and Doris P. Miller (Texaco Inc, New York), presented the membership with some hard choices to make from among the excellent candidates who accepted nominations for offices in 1970. Ballots have been sent to GIS members of record and must be completed and returned before November 1st to Jack L. Morrison, P.O. Box 806, Norman, Okla. 73069.

GEOSCIENCE LIBRARY RESOURCES and SERVICES

On 22 September 1969, a GIS working group submitted to the American Geological Institute an analytical study of geoscience library resources and services. The report and its recommendations were considered by the AGI Committee on Science

Information at its meeting in Houston, 14-15 October.

The report was prepared by a group of earth-science librarians under the chairmanship of Carleton M. Clifford, supervisor of the Technical Information Center at the Chevron Oil Field Research Company, La Habra, Calif. Other members of the working group included: William W. Easton, map librarian at Illinois State Univ; Mrs. Sharlene G. Rafter, geophysics reference librarian at U.S. Environmental Science Services Administration; Dederick C. Ward III, earth-science librarian at the Univ of Colorado; Vera J. Bacon, geology librarian at the Univ of Iowa; and Hartley K. Phinney, biology-geology librarian at Princeton Univ.

The working group was asked to analyze the universe of U.S. geoscience libraries for the planning associated with a National Geoscience Information Program. It attempted to interpret current library services and resources with respect to their adequacy, completeness, and responsiveness to user requirements.

Geoscience-library resource deficiencies include: foreign materials (principally from East Europe, Russia, Africa, South America, and southeast Asia); reference materials, especially a bibliography of nonserials pertaining to the earth sciences, with a subject index; guidebooks; out-of-print maps; and microforms of geoscience serials, out-of-print books, and geoscience theses.

Geoscience-library service deficiencies include: inadequate interlibrary-loan and photocopy services; inadequate dealers' stocks of out-of-print geoscience books; and lack of a planned effort to bring together the hundreds of thousands of geoscience bibliographic references currently stored on magnetic tapes.

The working group concluded that geoscience libraries and their operations could be improved by:

- (a) a program to maximize local cooperation;
- (b) a monthly geoscience bibliography of nonserials with references grouped by major areas of interest using an author arrangement with a subject and geographic index, preferably with abstracts;

- (c) a program to make more geoscience literature (especially serials and theses) available in microform;
- (d) a program to energize the use of bibliographic references on various magnetic tapes;
- (e) a program of selective dissemination of information for geoscience libraries;
- (f) a regional reference center to provide information about resources not available in local areas;
- (g) a centralized geoscience-information analysis center to prepare and implement plans and to coordinate programs and actions.

From the standpoint of holdings, the working group listed the 16 most important geoscience collections in the U.S.:

<u>Library</u>	<u>Books</u>	<u>Serials</u>	<u>Maps</u>
1. U.S. Geological Survey, Washington, D.C.	400,000	2,000	100,000
2. U.S. Bureau of Mines, Pittsburgh	160,000	350	NA
3. Colorado School of Mines, Golden	126,640	1,738	50,000
4. University of Missouri, Rolla	100,000	1,400	NA
5. U.S. Geological Survey, Menlo Park, Calif.	100,000	2,200	28,000
6. Princeton University	80,000	2,053	62,495
7. U.S. Coast and Geodetic Survey, Rockville, Md.	75,000	NA	NA
8. U.S. Geological Survey, Denver	70,000	600	50,000
9. University of Oklahoma, Norman	67,861	588	82,000
10. Columbia University	65,000	2,000	80,000
11. Yale University	55,000	1,400	150,000
12. University of Texas, Austin	52,500	525	100,000
13. University of California, Los Angeles	50,000	1,500	312,500
14. University of Chicago	49,000	1,500	200,000
15. University of Illinois, Urbana	46,327	1,500	300,000
16. Pennsylvania State University	40,000	1,600	NA

NA: Data not available.

NEW MEMBERS of GIS

- Mrs. Amy E. Blumberg: Head Librarian, Geology-Geophysics Library, Univ of Minnesota, Minneapolis, Minn. 55455.
- S.K. Cabeen: Director, Engineering Societies Library, New York, N.Y.
- Frances M. Drummond: Librarian, Pan American Petroleum Corp, Bentall Bldg, 444 7th Ave S.W., Calgary 2, Alberta, Canada.
- Dr. Harm Glashoff: Regierungsgeologie, Bundesanstalt für Bodenforschung, D 3000 Hannover - Buchholz, POB.54, Germany (FRG).
- Mrs. D. Mary Gregoret: Librarian, Pacific Petroleum Ltd, P.O. Box 6666, Calgary 2, Alberta, Canada.
- Gail M. Habermann: Librarian, Marine Research Laboratory, Univ of Wisconsin, Madison, Wisc. 53706.
- J.H. Halsey: Research Associate, Mobil Research and Development Corp, Field Research Laboratory, Dallas, Tex.
- Miriam Kerndt: Librarian, Geography-Geology-Meteorology Library, Univ of Wisconsin, Madison, Wisc. 53706.
- Mrs. Claire Ketler: Librarian, Lamont-Doherty Geological Observatory, Palisades, N.Y.
- Joseph J. Kohut: School of Library Science, Case-Western Reserve Univ, Cleveland, Ohio.
- Miriam Larson: Librarian, Cities Service Oil Co, P.O. Box 300, Tulsa, Okla. 74102.
- Mrs. Elizabeth M. Loomis: Assistant Science Librarian, Univ of Houston, Houston, Texas.
- Harold G. Richardson: Phil Wilson, publishers, 4707 Nett St, Houston, Texas 77007.
- Dr. Robert B. Sanders: Research Associate, Palynological Data Retrieval, Dept of Geology & Geophysics, Pennsylvania State Univ, University Park, Penna. 16802.

GISers in the NEWS

D. Biran's new address is: P.O.B. 262, Holon, Israel.

Robert T. Brady of American Overseas Petroleum Ltd is now at 380 Madison Ave, New York, N.Y. 10017, after being stationed in Tripoli, Libya.

Dr. Catherine C. Campbell of the U.S. Geological Survey, Menlo Park, Calif., has retired.

Mary Irene Finch, formerly of Indiana Univ Libraries, is now Irene F. Moose, 1365 Columbine Ave, #403, Denver, Colo. 80206.

Theodora G. Melone, geology librarian at Univ of Minnesota, has retired.

Carolyn W. Nash, formerly exploration studies librarian at Tenneco Oil Co. in Houston, is now librarian at Western Geophysical Co, 8100 Westpark Dr, P.O. Box 36462, Houston, Tex. 77036.

Thomas F. Rafter, formerly manager of AGI translations program, is now assistant director of science information at the American Geological Institute.

Foster D. Smith, formerly director of science information at the American Geological Institute, is now exploration supervisor for Mobil Latin America in Lima, Peru.

Melvin Weinstock, formerly with Herner and Company, is now with the Institute for Scientific Information in Philadelphia.

WILLIAM H. HEERS

GIS charter member William H. Heers, 65, who retired last February as chief librarian of the U.S. Geological Survey, died in his sleep 19 July 1969 at his summer home in Scientists Cliffs, Md. He had a history of heart disease.

Mr. Heers, who served in the federal government for 35 years, became head of the Geological Survey library in 1940.

Under his direction, the library gained an international reputation and opened branches in Denver, Menlo Park (Calif.), and Flagstaff (Ariz.). In a letter to Mr. Heers at the time of his retirement, W.T. Pecora, director of USGS, wrote: "You are leaving behind as your personal monument the greatest geological library in the world".

Born in Sleepy Eye, Minn., Mr. Heers spent his youth in Yakima, Wash. He graduated from Whitman College in Walla Walla, Wash., in 1930. He worked at the Library of Congress and later for the Dept of State while earning a degree in library science at George Washington Univ.

Mr. Heers is survived by his wife, Jean, of the home, 7808 Maple Ridge Rd, Bethesda, Md., and by two daughters, a sister, two brothers, and four grandchildren.

BRITISH GEOLOGICAL LITERATURE

Letter from Prof. Keith M. Clayton, Dean, School of Environmental Sciences, Univ of East Anglia, Norwich, NOR 88C, England, dated 17 June 1969:

"Your reference to British geological literature on page 4 of GIS Newsletter no.10 is not entirely correct. Mr. Martin will no longer be producing British geological literature, but it has been agreed that the title should be taken over by the annual volume of abstracts to be prepared at East Anglia in connection with the work going on here. As volumes 4 and 5 of British geological literature are an incomplete coverage of the annual British output, it has been decided to supersede these by volumes 6 and 7 for the years 1967 and 1968. These new volumes will provide comprehensive coverage of all British material complete with abstracts, and the series will continue in future years. The back stock of British geological literature (volumes 1-5) has been taken over by Geo Abstracts of the University of East Anglia who will sell it on behalf of Mr. Martin".

ANNOUNCEMENTS

A.O. Woodford has published an article, "Serial literature used by American geologists, 1967" in the June 1969 issue (v.17, no.3, p. 87-90) of the Journal of geological education.

Several partial sets of the Bulletin of the American Association of Petroleum Geologists covering the years 1951-1966 are available for cost of shipping and a letter of acknowledgement. Libraries interested in filling gaps in their own collections should write to Professor R.L. Langenheim, jr., Dept of Geology, Univ of Illinois, Urbana, Ill. 61801, for further details.

* *

The Dept of Geology at the Univ of Iowa has the following publications for exchange:

- 1) Australasian Institute of Mining and Metallurgy. Proceedings, no.215-224 (1965-1967).
- 2) Canada. Geological Survey. Bulletin 170; Memoir (various numbers from 333 to 352, 1963-1967); Paper (various numbers from 60-31 to 69-20, 1960-1969).
- 3) Illinois. Geological Survey. Reports of investigations, 186, 194, 196, 197, 202, 206, 208; Illinois petroleum, no. 75-77, 81, 83, 85, 89.
- 4) Kansas. State Geological Survey. Bulletin (various numbers from 52 to 188, 1944-1968).
- 5) Kyushu Univ. Faculty of Science. Memiors; series D: Geology, v.17 (no.1-3) and v.18 (no.1-2).
- 6) Mineralogical magazine, March 1968, v. 36, no.281.
- 7) Oklahoma geology notes (various numbers in volumes 19-25, 1959-1965).
- 8) Portugal. Servicos Geologicos. Comunicacoes, t. 48-50, 52 (1964-1967).

The geology library at the Univ of Iowa is lacking numbers 110, 114, and 116 from the Bulletin series of the Oklahoma Geological Survey and would like to obtain them if at all possible. Write: Vera J. Bacon, geology librarian, Univ of Iowa, Iowa City, Iowa 52240.

* *

The U.S. Geological Survey Library invites applications for the position of Chief, Reference and Circulation Section (GS-13: p.a. \$15,812 to \$20,555). Candidates should possess broad academic knowledge of earth sciences and extensive geoscience reference experience, demonstrated super-

visory and administrative experience. Degree in geoscience plus graduate degree in library science or their equivalents and at least three years of related experience with one year comparable to GS-12 level in Federal service. Incumbent is to develop program providing for full utilization of Survey's collections and formulating policies relative to program development. Supervises staff of 10. Provides technical and policy leadership in reference and circulation to field libraries. Applicants should submit a detailed SF-171 application form. This is a career position in the competitive Federal service. Please submit applications to or request further information from: William A. Ellison, Branch of Personnel, U.S. Geological Survey, Room 1024, GSA Bldg, 18th & F Streets N.W., Washington, D.C. 20242. Phone: 202-343-9453. The Geological Survey is an equal opportunity employer.

GEOLOGIC THESAURUS

The Abstract Board of the International Council of Scientific Unions, at its meeting in Rome, 15-19 Sept 1969, designated a geology working group to formulate a multilingual thesaurus. This will be a pilot project and, if successful, multilingual thesauri will be compiled for all of the sciences. Members of the working group include Joel Lloyd (U.S.), Jacques Gravesteyn (France), L. Delbos (International Union of Geological Sciences), Harm Glashoff (Germany), and a member to be named by the U.S.S.R.

AIME COMPUTER APPLICATIONS SYMPOSIUM

GISers Paul I. Eimon and David B. Morris prepared an introductory review to Section 3 (Data Storage and Retrieval) of A decade of digital computing in the mineral industry, a review of the state-of-the-art based on the 1969 International Symposium on Computer Applications and Operations Research in the Mineral Industry, held 17-19 Sept 1969 in Salt Lake City under the auspices of the Society of Mining Engineers of the American Institute of Mining, Metallurgical, and Petroleum Engineers. The 952-page proceedings were edited by Alfred Weiss and published by AIME. The papers in Section 3 include:

- (a) "The machine representation of geological information", by Colin J. Dixon, p.283-303.
- (b) "GIPSY--possible uses of a generalized information processing system in mining", by James W. Sweeney, Charles H. Addison, and Robert W. Shields, p.305-309.
- (c) "A program for an information center in the earth sciences", by Joel J. Lloyd, p.311-317.
- (d) "International aspects of geological data storage and retrieval", by S.C. Robinson, p.319-329.
- (e) "Earth science information in a computer-based chemical information system", by Ralph E. O'Dette and John T. Dickman, p.331-346.

AGI COMMITTEE on SCIENCE INFORMATION

The AGI science-information committee, at its meeting in Houston, 14-15 October 1969, considered five reports of studies approved by the committee in March 1969. Among the reports submitted was that prepared by a GIS working group on geoscience library resources and services (see pages 3-4 of this newsletter).

The other reports included:

Inventory of the World's Geoscience Serials: GISer H. Robert Malinowsky (Univ of Kansas), who is conducting the inventory, submitted an interim report. He anticipates 15,000 serials that publish papers in the geological sciences; more than 10,500 serials have been listed thus far. The 15,000 figure is five times the number originally anticipated.

Conceptual Alternatives to the Scientific Journal in its Present Form: This study was conducted by F.W. Lancaster and Anita M. Brown of Westat Research Inc, Bethesda, Md. Possible partial solutions include: repackaging of broad-scope journals into smaller units; assisting rapid scanning of journals by changes in format of papers or by inclusion of keywords, index terms, and/or abstracts; issuing announcement journals and providing a backup depository service from which full papers can be obtained; a complete selective dissemination (SDI) service; preprint exchange;

rapid publication of brief communications (letters, short papers, etc.); improved technology to speed the journal-production process and reduce costs, including the use of photocomposition and microforms; and a centralized publication program.

Automated Production of Geoscience Publication: This study, conducted by Publicate Incorporated, Bethesda, Md., attempted to ascertain the feasibility of utilizing computerized information-processing and photocomposition systems in the production of primary and translation journals, and also to ascertain the potential benefits that could result from the utilization of automated systems and to suggest potential methods for implementation.

Inventory of Specialized Geoscience Information Resources and Services: It is estimated that approximately 450 candidate specialized information, data, and specimen resources (within the U.S.) of potential interest to the geosciences will be identified, using 13 major reference works and voluntary responses to announcements of the survey. About 300 of these resources will be described and analyzed. The resources include all collections and service activities that are highly specialized or unique with respect to their area of subject concentration, their completeness and authority, or the type of information or service they can provide, and that are available for use by U.S. geoscientists; e.g. information centers, information services, documentation centers, document collections, data centers, data banks, data collections, data files, library collections, map collections, specimen collections, and artifact collections. A preliminary design for a file system for the maintenance and retrieval of the inventory data file has been developed. The initial planning and design for the inventory was performed by William A. Creager, and the inventory data gathering and analysis functions are being performed by Capital Systems Group Inc., Bethesda, Md.

INFORMATION RESOURCES INVENTORY

The American Geological Institute is preparing an Information Resources Inventory and seeks your help in identifying information resources in the United States which are of significance to geoscientists (see preceding article). This

inventory, newly initiated, will include formal activities (e.g. special library collections, information centers, museum collections, etc.) as well as those special data, documents, and specimen collections informally maintained by individual scientists and/or research organizations.

The inventory is being conducted under the aegis of the AGI Committee on Science Information. The inventory will be made available in published form when compilation is completed.

Would you send a brief description of any specialized geoscience information resources you feel should be included in this inventory along with the name and address of the cognizant organization or individual to: AGI/Resource Inventory, 2201 M Street N.W., Washington, D.C. 20037.

The labels used for mailing this newsletter were generated by the computer at the Columbus Laboratories of Battelle Memorial Institute. GIS members Howard B. Shirley and Robert S. Burns arranged for this and had the necessary card deck punched. One of their associates, Richard Krohn, developed the necessary software to produce the labels.

Mr. Burns is currently working on a COBOL program to utilize this same deck of cards in producing a directory of members. In order that any errors, changes, or additions to your address can be incorporated into the directory, a change-of-address form is attached. Please check your address carefully, and if any changes are necessary, complete the form and send it to: Mr. Donald H. Owens, GIS Treasurer, Battelle Memorial Institute, Columbus Laboratories, 505 King Ave, Columbus, Ohio 43201.

GIS EXECUTIVE COMMITTEE

President: Eleanore E. Wilkins, Librarian, U.S. Geological Survey, 345 Middlefield Rd, Menlo Park, Calif. 94025

Vice-President: Melvin Weinstock, Institute of Scientific Information, Philadelphia

Secretary: Mrs. Marjorie W. Wheeler, 5775 Viking Dr, Beaumont, Tex. 77706

Treasurer: Donald H. Owens, Information Operations Division, Battelle Memorial Institute, 505 King Ave, Columbus, Ohio 43201

Past President: Dederick C. Ward III, Earth Sciences Library, 204 Geology Bldg, Univ of Colorado, Boulder, Colo. 80302

NEWSLETTER EDITOR

Robert McAfee, jr., American Geological Institute, 2201 M St NW, Washington, D.C. 20037

- 1. Name _____ (Include Dr, Miss, Mrs, Mr if so desired)
- 2. Title _____ (Professor, Head Librarian, Map Curator, Editor, etc.)
- 3. Organizational Unit _____ (Geophysics Library, Exploration Dept, Mineralogy Lab, etc.)
- 4. Affiliation _____ (Principal Affiliation)
- 5. Address _____ (Street No., Bldg No., etc.)
- 6. City, State, Country _____
- 7. Zip Code _____