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GIS new/letter

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OSU's Institute of Polar Studies

The Ohio State University's Institute of Polar Studies has played an active role in polar research since its establishment in February 1960 as an outgrowth of a reduction center for glaciological data during the International Geophysical Year. Each year research associates (graduate students, post-doctoral and full-time researchers) participate in expeditions to the Arctic (June to September) or to Antarctica (October to February). There are presently two expedition groups in Antarctica: one conducting glacial geology studies in the South Shetland Islands; the other, ice dynamics at Marie Byrd Land.

Most of the Institute's expeditions are financed through outside foundations, such as the National Science Foundation, or military service laboratories. Its members conduct investigations where the mean temperature does not exceed 10° C. during the warmest month. This involves such disciplines as agronomy, anthropology, archaeology, bedrock geology, botany, city planning, civil engineering, climatology, ecology, geochemistry, geography, paleobotany, photogrammetry and zoology. Field research has been carried out in Antarctica, Alaska, Greenland, Northern Canada, Patagonia and the Aleutian Islands.

The Institute has made noteworthy achievements: Dr. David H. Elliot, Director of the Institute, served as principal investigator on a field team in the Central Transantarctic Mountains of Antarctica in 1969/70. In November 1969 he made the first major fossil find on the continent: vertebrate fossils at Coalsack Bluff in the Queen Alexandra Range, 400 miles from the South Pole. From sandstone beds the team gathered fossil samples of land vertebrates of Triassic age, more than 200 million years old, including specimens of the reptiles Lystrosaurus and thecodonts, ancestors of the dinosaur, and the amphibian labyrinthodont. This discovery lends strong support to the continental drift theory linking southern continents into one supercontinent, Gondwanaland. In 1960 tillite, evidence for ancient glaciation (of Permian age), was found in Antarctica. In 1962 unweathered coal was uncovered on Mt. Schopf in the Ohio Range of the Horlick Mountains. During 1969/70 the first U.S. all-woman scientific party to Antarctica, led by Dr. Lois M. Jones, engaged in research in glacial geology, geochemistry and paleolimnology in Wright and Taylor Valleys.

The Institute publishes the results of its research in scientific journals and distributes reprints as its Contributions. Other research is issued as its numbered Report. Inquiries concerning these publications should be directed to:

The Ohio State University Institute of Polar Studies 125 South Oval Drive Columbus, Ohio 43210

25th International Geological Congress (IGC)

The 25th IGC will be held on the campus of the University of Sydney in Sydney, Australia, from 16 to 25 August 1976. According to the 1st Circular (issued Oct. 1973), Section 16 of the technical program is entitled: "Geological Information and Mathematical Geology." The Committee on Storage, Automatic Processing and Retrieval of Geological Data (Cogeodata) of the International Union of Geological Sciences has proposed a symposium, tentatively titled: "Application of Data-Base Management Systems to Geological Problems." The International Association for Mathematical Geology will be organizing a symposium "on a timely subject in geomathematics." Two earthscience editors' associations (Editerra and the Association of Earth Science Editors) may organize a symposium titled: "Writing, Editing and Publishing Geology," as part of the technical program of Section 17 (Geological Education and History).

All correspondence about the Congress should be addressed to: The Secretary-General, 25th International Geological Congress, P.O. Box 1892, Canberra City ACT 2601, Australia.

In Memoriam

HAROLD G. RICHARDSON died in January. Harold was not a member of GIS but many of our members knew him because of the work he did in helping to publish the two editions of the GIS's *Geologic fieldtrip guidebooks*. Although ill for some time, he never let that interfere with his work and his life. He was a good friend and those of us who knew him will miss him.

-Submitted by Aphrodite Mamoulides

GIS To Testify At Meeting

GIS is planning to make a presentation concerning the information needs of geoscientists at the National Commission on Libraries and Information Science's regional meeting in San Antonio April 24, 1974. The Commission is interested in obtaining information concerning discipline-oriented information systems and limitations in the geoscience information field. Various GIS members have been asked to submit written documentation to the Commission:

Introduction—summary of current problems, strengths and weaknesses of geoscience information handling, etc.

Julie Bichteler, Lecturer, Graduate School of Library Science, University of Texas at Austin, Austin 78712.

The USGS Library—problems, proposed status as a national library, possibilities for a USGS-state survey network, etc.

Sara Aull, 201 West Rice Street, Landis, North Carolina 28088.

Critical analysis and review of printed bibliographic titles in the geosciences.

Dederick C. Ward, Head, Earth Science Library, University of Colorado, 204 Geology Building, Boulder, Colorado 80302.

 $\textit{GEO} \bullet \textit{REF} - \text{development, problems, user criticisms, etc.}$

Julie Bichteler.

 $\textit{GEO} \bullet \textit{REF} - \text{expenses}, \text{ funding}, \text{ costs for proposed changes}.$

Gerald L. Ochs, Acting Project Manager, GEO•REF, American Geological Institute, 2201 M Street NW, Washington, D.C. 20037.

User needs—how geologists use literature, unique characteristics of the literature which create problems (with a special section on petroleum geologists).

Marjorie Wheeler, Science Librarian, Library, Lamar University, Box 10021, Beaumont, Texas 77710.

Dr. Bichteler is coordinating the written documentation and oral testimony.

EROS Data Center

The EROS Data Center, located on a site 18 miles northeast of Sioux Falls, South Dakota, was completed in the summer of 1973. It was established to reproduce and disseminate remote sensor data provided by Earth Resources Technology Satellite (ERTS) imagery, USGS' and other federal agencies' aerial photography, and NASA's aircraft research. The Earth Resources Observation Systems Program evolved from pioneer remote sensing activities of the USGS, Dept. of Agriculture, Dept. of Commerce, Naval Oceanographic Office, Army Corps of Engineers, and NASA and was developed to apply remote sensing techniques to resources management, inventory, and other activities of the Dept. of the Interior. "Remote sensing" in the EROS program is considered "an extension of human observation . . . recording what the human eye perceives and the reflected and emitted patterns of radiation from those parts of the electromagnetic spectrum beyond the visible to the human eye." Sophisticated, portable instruments (cameras, thermal infrared detectors, radars, and other devices) and aerial and space platforms make it possible to make a rapid, detailed observation of the Earth's surface. A receiving and conversion station at the EROS Data Center receives transmissions directly from satellites and converts electronic signals to an image negative. As no one existing receiving station can receive coverage from more than a small part of the conterminous U.S., the site at Sioux Falls was selected because it can provide maximum coverage.

The Center answers inquiries on satellite photography and imagery, aerial photography and imagery, and autographic theme extraction. ERTS imagery data on 16mm films is also available for onsite use. Address all correspondence to: Earth Resources Observations System (EROS) Data Center, Geological Survey, U.S. Dept. of the Interior, Sioux Falls, South Dakota 57198 (Telephone: (605) 594-6511).

UDC Revision

FID news bulletin, January 1974, mentions a proposal to revise the Universal Decimal Classification:

(Dated 30 November 1973)

PC 73-27 Revision of the "time" schedules, amending P 72-42 of December 1972, with a major improvement of section "6" Geological time, elaborated by a Norwegian/Swedish group. (6 pages)

GEO•REF Coordinator Resigns

Gerald L. Ochs has resigned as acting coordinator of the GEO•REF project at the American Geological Institute, effective 28 Feb. 1974. Mr. Ochs plans to resume his "embryonic writing career." No replacement has as yet been named.

New Geoscience Publications

Earth trak, a bi-monthly publication aimed at the layman, may be obtained from IDEL ("An earth resources enterprise"), P.O. Box 1627, Sioux Falls, South Dakota 57101. The first issue, February 1974, discusses the EROS Data Center and its services, as well as EROS and the future of agriculture and how to interpret imagery. The annual subscription is \$25.00.

Geotitles repertorium is an annual 16mm microfilm cumulation of Geotitles weekly produced by COM techniques and first published in 1973 by Geosystems, P.O. Box 1024, Westminster, London SW1.

International maps and atlases in print. Edited by Kenneth Winch. Ann Arbor, Mich., R.R. Bowker, March 1974. \$39.50. (The 8,000 entries are arranged according to the Universal Decimal Classification System, by continent, country, region and city.)

New Mexico Geological Society Guidebooks

In 1974 the New Mexico Geological Society will publish its twenty-fifth consecutive field conference guidebook. To commemorate its Silver Anniversary, the Society is offering a complete set of twenty-five guidebooks plus an index (Special publication no. 1, covering guidebooks 1-13) for \$205.00. If purchased individually, the complete set would cost \$234.75. The guidebooks "cover significant portions of Colorado, Utah, Arizona, and Chihuahua, Mexico, in addition to New Mexico and constitute a major reference series on the southwestern United States. They contain road logs, stratigraphic lexicons, papers on almost every facet of geology, as well as subjects of related interest, such as archeology, history, flora and fauna." Abstracts of technical papers presented

at the Society's annual meetings and symposia are also included. The guidebooks are 8½ by 11 inches and average 200 pages. They contain numerous photographs and illustrations. The publications may be ordered from the New Mexico Bureau of Mines and Mineral Resources, Socorro, N.M. 87801. If a remittance accompanies the order, the Society will pay the postage of approximately \$5.00.

Request For Dup Maps

Dolores H. Swindell, Media Specialist, Northeast Elementary School, Flanders Rd., Mystic, Conn., would appreciate receiving any duplicate or outdated topographic maps GIS members might wish to donate to her elementary school media center. She is particularly interested in maps that show topographic relief. Ms. Swindell not only instructs children how to use conventional library information sources but also how to read maps!

Literature Citations

Abelson, Philip H. Communication of geophysics. EOS, v.55, no. 2, Feb. 1974, p. 59.

Alexander, Robert H. Central Atlantic Regional Ecological Test Site (CARETS): a prototype regional environmental information system. Washington, D.C., U.S. Geological Survey, Jan. 1973. 60p. (NTIS E73-10347). Paper copy \$5.00.

American Geological Institute. Geoscience Information Committee. "Pre-publication" abstracts. Geotimes, v.18, no. 12, Dec. 1973, p. 32.—Discussion of a prospective pre-publication abstracts journal for geology.

Janke, N.C., and Garfield, Eugene. *Journal evaluation*. *Science*, v. 182, no. 4118, 21 Dec. 1973, p. 1196-1198.—Comment by Janke on article by Garfield (3 Nov. 1972) regarding citation analysis as a tool in journal evaluation, with reply from Garfield. Janke discusses geological literature.

U.S. Library of Congress. National Referral Center. Selected information resources on energy. Washington, D.C., Dec. 1973, 16 p. (Its SL 73-7).—Lists 48 information resources.

U.S. Library of Congress. National Referral Center. Selected information resources on remote sensing. Washington, D.C., Dec. 1973. 7 p. (Its SL 73-8).—Lists 23 information resources.

Members In The News

MARY B. ANSARI (Mines Librarian, Univ. of Nevada, Reno) is compiling a bibliography and index of Nevada mining and geology for the years 1966-1970. She has already assembled 2,000 references and is still collecting information. She would appreciate receiving "any obscure references on Nevada mining and geology." The publication will be issued as a Nevada Bureau of Mines Report.

ROBERT B. AUSTIN (Supervisor, Records Management and Technical Information Services, Chevron Oil Co., Western Div., Denver, Colo.) is currently President of the Rocky Mountain Chapter of American Records Management Association and is a nominee for Region IV Vice-President for 1974-76.

ANN S. COPPIN (Teaching Assistant, Graduate Library School, Univ. of Arizona, Tucson) is compiling a bibliography on lunar geology as a required research project for the MLS degree at the University of Arizona. The publication covers the period 1969 to the present and includes lunar mineralogy, petrology, geochemistry, selenotectonics and geophysical data gathered on the moon, as well as material about lunar surface features.

ROZA EKIMOV (Exploration Librarian, Exxon Company, U.S.A., Denver) is Chairman-elect of the Petroleum Division, Special Libraries Association.

VIVIAN S. HALL (Geology Librarian, Univ. of Kentucky, Lexington) is Chairman of the Special Libraries Section of the Kentucky Library Association. The organization is planning a two-day meeting in Lexington April 26-27. Gilles Frappier, Associate Librarian of the Library of Parliament, Ottawa, Canada, will be the guest speaker. Ms. Hall has also been elected 1973/74 President of the Scott County Business and Professional Women's Club. She is currently preparing a manuscript *The Kentucky Geological Survey bibliography of publications by Schwabb, Hall and Smith,* which will be issued as the Survey's (*Series 10*) *Special publication 197*.

MICHAEL J. PASSOW (Lecturer in Earth Sciences, Dept. of Chemistry/Earth Sciences, Fairleigh Dickinson Univ., Rutherford, N.J.) is interested in new ways to teach earth science to non-science oriented college students. He recently conducted a three-week intersession course "Literature of the Ocean," in which students read and discussed works by Carson, Cousteau, Ericson and Woolin, among others. Mr. Passow would like to hear of any non-conventional approaches to teaching geoscience to non-majors.

JOSEPH P. RIVA, JR. has resigned as Chief, Earth Sciences Branch, Smithsonian Science Information Exchange, to become Physical Science Analyst, Science Policy Research Division, The Library of Congress, Washington, D.C.

DOROTHY B. VITALIANO (Geologist, USGS, Indiana Univ., Bloomington) has written a book on geomythology entitled Legends of the Earth: their geologic origins. The book was published last December by Indiana University Press and is priced at \$12.50 (clothbound edition). The book discusses legends associated with the Bronze Age eruption of Santorin. Ms. Vitaliano and her husband, Professor C.J. Vitaliano, recently presented papers (at the GSA meeting in Dallas and the American Institute of Archaeology convention in St. Louis) discussing the results of their research in Crete in 1971, when they found evidence to shed new light on the question of the collapse of the Minoan civilization during the Bronze Age eruption of Santorin.

CAROL S. WINFIELD has been promoted from Research Assistant to Technical Librarian, Exploration and Production Research Lab., Cities Service Oil Co., Tulsa.

JAY A. WOODS has been named Manager, Product Development, Woods Industries, Yakima, Wash. He is responsible for a new product—a water suspension of heavy minerals. With a specific gravity of 3.6, it should allow cheap separation of ores from gangue.

Treasurer's Report

To: GIS Executive Committee

From: A. Mamoulides

On November 20, 1973 I opened a checking account for the GIS using as the initial deposit the following:

\$ 80.50 cash

11.50 money orders

172.50 checks

\$ 264.50 monies from the GIS luncheon in Dallas, Texas, November 12, 1973.

10.00 check for 1973 dues

5.00 check for vol. 3 of Proceedings

10.00 check from a new member

\$ 289.50 TOTAL of the initial deposit.

Since then, and as of February 1, 1974 we have received the following:

\$ 54.50 sale of Proceedings

60.00 1974 dues

20.00 1974 subscriptions

120.00 refund of temporary advance made to 1973 GIS President

1454.34 transfer of funds from 1973 treasurer to 1974 treasurer

\$1708.84

289.50 initial deposit

\$1998.34 TOTAL

As of February 1, 1974 I have dispersed the following:

\$ 63.08 Univ. of Michigan for telephone expenses incurred by L.I. Briggs as Chairman of the 1973 Nominating Committee

.64 Bank service charges

54.05 Design Press, Boulder Colorado—for 1000 letterheads and envelopes shipped to the Secretary

6.00 Sigma Gamma Epsilon—for copying membership letter and program announcement for 1973 meeting

5.04 Geol. Dept., Univ. of N. Dakota—postage in connection with 1973 meeting

168.50 Good Printers, Washington, D.C.—Printing, folding and art corrections GIS Newsletter No. 27.

369.82 Linda Holder—typesetting of GIS Newsletter No. 27

42.50 Robert McAfee, Jr.—Postage for mailing Newsletter

440.00 AGI. \$140 for dues for July 1—Dec. 31, 1973 300 for dues for calendar 1974

\$1149.63

So, as of February 1, 1974 our checking account balance is \$848.71.

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)

PAST PRESIDENT: Hartley K. Phinney, Jr., Supervisor, Technical Information Center, Chevron Oil Field Research Co., P.O. Box 446, La Habra, Calif. 90631 (213/691-2241, ext. 2366)

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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