

GIS newsletter

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OPEN EARTH NOW AVAILABLE AT REDUCED SUBSCRIPTION RATES

Open earth, the international earth-science quarterly founded in 1978, is pleased to be able to announce a reduction in subscription rates to U.S. subscribers (because of large changes in the exchange rate over the past year). The rates are now \$12.75 (air mail \$21.25) for individuals and \$21.25 (air mail \$29.75) for institutions. Primary and secondary schools may now subscribe at the individual rate. Open earth probably contains more book reviews than any other earth-science publication and for that reason, is now widely used by librarians and others, especially in Britain and the Commonwealth, as well as elsewhere. The editor of Open earth is Dr. Peter J. Smith. Subscriptions for the publication may be sent to Open Earth, 32 St. James Close, Hanslope, Milton Keynes MK19 7LF, England. Its ISSN: 0141-3619.

USGS DEVELOPS NATIONAL PROGRAM FOR DIGITAL CARTOGRAPHIC DATA

The U.S. Geological Survey has recently completed the development of a nationwide digital cartographic data base. The data base, a part of the USGS US GeoData digital cartographic data product line, is the largest, most comprehensive and most current set of digital cartographic data for the entire United States available to the public. The data is useful to those interested in producing map products, as well as those interested in a geographic base file for use with statistical and other information.

The data, digitized from 1:2,000,000-scale maps, contains information about the major boundary, transportation, and hydrographic features of the nation. The boundary data includes the outlines of states, counties, major cities, and federally administered lands. The transportation data contains roads, railroads, and airports. The hydrographic data includes streams, bodies of water and the Continental Divide. The attribute codes for the data, which identify a particular digital map element as a road, boundary, stream, etc., provide the user with the means to produce a wide variety of cartographic products with different densities of boundary, transportation, and hydrographic data displayed. The map information was updated to 1979 prior to digitizing.

The data is available in two data structures. The first, a topological structure data set, is organized in the USGS standard Digital Line Graph (DLG) format and supports a variety of advanced cartographic data applications such as computer generated polygon shading and area calculations, as well as simpler applications. The second data structure features a less complex organization of line data in latitude, longitude coordinate strings, and supports base map display packages currently available to users.

Persons interested in purchasing the data have the option to choose the categories of data (boundaries, transportation or hydrography), the data structure (topological or line string), and the regions of the United States in which they are interested (15 regions in the conterminous states, five regions in Alaska, one region for

Hawaii). A variety of data transfer tape characteristics is available. For more information about the data, contact the Eastern-National Cartographic Information Center. The address: U.S. Geological Survey, Eastern-NCIC, 536 National Center, Reston, VA 22092 (703/860-6336).

AMERICAN INSTITUTE OF PROFESSIONAL GEOLOGISTS
SCHEDULES FUTURE ANNUAL MEETINGS

1983 September 7-10, Ramada Snow King Inn, Jackson Hole, WY. (General chairman: Gene R. George, P.O. Box 2775, Casper, WY 82601 (307/265-9199).

1984 October 17-19, Dutch Resort Inn/Disney World, Orlando, FL. (General chairman: Bobby J. Timmons, Timmons Associates, P.O. Box 50606, Jacksonville, FL 32250 (904/246-4533).

1985 September 17-21, St. Paul Hotel, St. Paul, MN. (General chairman: Robert E. Pendergast, 1925 Oakcrest Ave., Roseville, MN 55113 (612/636-7744).

MSA PUBLISHES REVISIONS
OF TWO VOLUMES IN SERIES

Volumes 2 and 5 in the Mineralogical Society of America's series Reviews in mineralogy (formerly Short course notes) have been revised. Volume 2, Feldspar mineralogy, second edition, 1983, 350 p., is available for \$13.00. Volume 5, Orthosilicates, second edition, 1982, 450 p., is priced at \$14.00. P.H. Ribbe is the editor of both volumes. The publications may be ordered from the Mineralogical Society of America, 2000 Florida Ave., N.W., Washington, DC 20009. Make checks payable to the Society. Orders under \$50.00 must be prepaid. There is no charge for postage and handling on prepaid orders. Otherwise charges are: surface delivery, \$2.00 plus .20 per publication for 1-9 copies; air freight \$7.00 plus special handling, \$1.00 per pkg.; special delivery, \$1.50 per pkg.; registered mail, \$2.00 per pkg.

LITERATURE CITATIONS
(GIS members in caps)

Blakey, Ellen Sue. TU's Petroleum abstracts save time, money. AAPG explorer, January 1983, p. 24-25.

Butler, Robert W.H. The terminology of structures in thrust belts. (Originally presented in poster form at the Annual Meeting of the Tectonic Studies Group, Geological Society of London, at Oxford University, December 1981.) Journal of structural geology, vol. 4, no. 3, 1982, p. 239-245.

DuBois, Susan M. et al. Arizona earthquakes, 1776-1980. Arizona. Bureau of Geology and Mineral Technology. Bulletin 193, 1982. 456 p. (with map Historical epicenters in Arizona: 1830-1980, scale: 1:1,000,000.

RASSAM, GHASSAN N. The GeoRef online bibliographic database as an educational tool. Journal of geological education, vol. 31, no. 1, January 1983, p. 26-30.

Smith, R.T. Quaternary environmental change in equatorial regions with particular reference to vegetation history: a bibliography. Palaeogeography, palaeoclimatology, palaeoecology, vol. 39, no. 3/4, October 1982, p. 331-345.

ROBERT BATES, JULIE JACKSON
RECEIVE NYAS BOOK AWARD

Our modern stone age, by Robert L. Bates, Professor Emeritus of Geology, The Ohio State University, and Julia A. Jackson, American Geological Institute, Information-Product Development, has been given honorable mention in the New York Academy of Sciences' annual children's science book awards. The Academy presented the award at a luncheon held March 30. The authors discuss the geology, manufacture and use of stone today and present their topic in a fast-paced, informal style that is informative as well as entertaining. The publication is available for \$18.95 from William Kaufmann, Inc., 95 First St., Los Altos, CA 94022.

GIS MEMBERS IN THE NEWS

MARY ANSARI, former Mines-Engineering Librarian at the University of Nevada-Reno, now is responsible for the administration of three branch libraries. Her new title is Librarian for Mines, Engineering, and Life and Health Sciences.

THOMAS F. RAFTER, JR., former Director of Publications at the American Geological Institute, has joined the Headquarters of the American Geophysical Union as Senior Project Manager.

The American Federation of Mineralogical Societies has selected CARLTON H. STOWE as the Rocky Mountain Federation of Mineralogical Societies' Honorary Award winner for the AFMS Scholarship Foundation for 1983. The prestigious award will be given at the National Convention in Oklahoma City, June 10-12. With this Honorary Award goes the privilege of selecting a school, or schools, and two students who will receive grants from the Federation to help achieve their graduate degree in earth science. Mr. Stowe, the former President, Chief Executive Officer and Chairman of the Board of Rocky Mountain Natural Resources Corporation, now conducts independent oil and gas services.

MIDDLE AMERICA EARTHQUAKES PINPOINTED ON NEW MAP

A multicolor Seismicity map of Middle America has been published by the National Geophysical Data Center and the National Earthquake Information Service of the U.S. Geological Survey. The 41x35 in. map shows the locations of major earthquakes and many smaller events occurring in that region of the world from 1900 through 1979. It also includes in a table below the map important information about each major event. Earthquake locations are displayed on a Mercator projection at a scale of 1:8,000,000. Earthquake locations that are plotted beside dates of occurrence represent events that have met any one of the following criteria: property damage of \$1,000,000 or greater; ten or more deaths; magnitude 7.5 or greater. Additional locations shown on the map (i.e., those plotted without dates) represent earthquakes of magnitude >3.9 that occurred between 1964 and 1979. The map may be purchased from NGDC for \$5.00 (folded) or \$10.00 (rolled) prepaid. In addition, the digital data used to produce the map may be purchased on magnetic tape for \$150.00. There is a minimum charge of \$10.00. Please specify 7- or 9- track mode and 556, 800, or 1600 bpi density and either ASCII or EBCDIC character code conversion. Checks or money orders should be made payable to: COMMERCE/NESDIS/NGDC. Inquiries and orders should be addressed to: National Geophysical Data Center, NOAA, Code E/GC1, 325 Broadway, Boulder, CO 80303 (telephone: 303/497-6607; FTS 320-6607; Telex 45897 Sloternw BDR).

NEW MEMBERS

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NEW PUBLICATIONS

The art of abstracting, by Edward T. Cremmins. Philadelphia, ISI Press, 1982. 150 p. \$13.95 (\$16.95 outside US). (ISBN 0-89495-015-0).

Atlas of ore minerals, by P. Picot and Z. Johan. Amsterdam, Elsevier, 1982. 406 p. US and Canada: \$170.00; rest of world: Dfl. 400.00. (ISBN 0-444-99684-2).

Drilling Early Warning (DEW) newsletter. (Describes various research opportunities and items of interest about continental scientific drilling.) Free. Available from: Robert Andrews, Staff Officer, Continental Scientific Drilling Committee, National Academy of Sciences, 2101 Constitution Ave., NW, Washington, D.C. 20418.

Map projections used by the U.S. Geological Survey, by J.P. Snyder. U.S. Geological Survey Bulletin 1532, 1982, 313 p., 1 plate in pocket. \$7.50. Available from: Eastern Distribution Branch, Text Products Section, USGS, 604 South Pickett Street, Alexandria, VA 22304.

Minnesota's geology, by Richard W. Ojakangas and Charles L. Matsch. Minneapolis, University of Minnesota Press, 1982. 263 p. cloth \$39.50 (ISBN 0-8166-0950-0); paper \$16.95 (ISBN 0-8166-0953-5).

This is intended as a successor to Minnesota's rocks and waters, by George M. Schwartz and George A. Thiel (University of Minnesota Press, 1954). The authors "sketch a history of geological investigations since 1872, when the Minnesota Geological Survey was established," discuss the geological history of the state and devote the last two sections of the book to the state's mineral resources.

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GEOSCIENCE INFORMATION SOCIETY -- FINANCIAL REPORT

January 1, 1982 - December 31, 1982

	Checking Acct.	Savings Acct.	Totals
<u>Balance</u> from former Treasurer	\$2,839.92	\$ 4,588.25	\$ 7,428.17
<u>Loan repaid</u> (2d Int. Conf. on Geoscience Information)	1,000.00		1,000.00
<u>Income</u>			
Dues--Individual	6,119.69		
--Corporate or Inst.	1,055.00		
Publications			
Newsletter subscriptions	365.00		
Mailing list	40.00		
Proceedings	1,765.00		
Misc. publications	12.50		
Proceeds from 2d Int. Conf. on Geoscience Information		8,538.13	
Interest on savings		402.11	
<u>Total income</u>	9,357.19	8,940.24	18,297.43
<u>Expenses</u>			
AGI dues	326.00		
Bank charges	20.95		
GIS--Annual meeting	118.48		
--President	367.05		
--V.P./Program Chair	320.50		
--Secretary	238.82		
--Treasurer	89.20		
--Publications Manager	111.58		
GIS Committees--Guidebooks	135.98		
--Membership	88.93		
--Theses	68.00		
Newsletter--printing	1,272.75		
--postage	689.00		
Proceedings adv. in Geotimes	101.50		
Miscellaneous printing	190.08		
<u>Total expenses</u>	4,138.82		(4,138.82)
<u>Balance</u> as of December 31, 1982	\$9,058.29	\$13,528.49	\$22,586.78

Submitted by Beatrice L. Lukens Date Mar. 22, 1983
 Beatrice L. Lukens, Treasurer

Audit: I have examined the financial records of the Society and to the best of my knowledge the figures given in this report are true.

Charlotte R. M. Derksen Date Mar. 26, 1983
 Charlotte Derksen

1983 GIS Officers

PRESIDENT: Regina Brown, Orton Memorial Library of Geology, The Ohio State University, 155 South Oval Drive, Columbus, OH 43210 (614/422-2428)

PAST PRESIDENT: Mary W. Scott, Bibliography Department, Chester Fritz Library, University of North Dakota, Grand Forks, ND 58202 (701/777-4638 or 777-2617)

VICE-PRESIDENT and PRESIDENT-ELECT: Unni Havem Rowell, Exmin Corporation, 1111 North Walnut, P.O. Box 2655, Bloomington, IN 47402 (812/332-1874)

SECRETARY: MaryAnn Whitney, Standard Oil Company of California Library, Room 1410, 225 Bush Street, San Francisco, CA 94104 (415/894-3370)

TREASURER: Beatrice Lukens, Earth Sciences Library, University of California, Berkeley, Berkeley, CA 94720 (415/642-2997)

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 \$20.00 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.

GIS members are invited to contribute articles or news of general interest to the membership. Please submit all material to the Editor by the first of the month, one month prior to publication.

Editor: Regina Brown, Orton Memorial Library of Geology, The Ohio State University, 155 South Oval Drive, Columbus, OH 43210 (614/422-2428).