

GIS newsletter

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1979 INTERNATIONAL CONGRESS PAPERS
TO BE ISSUED AS FIVE-VOLUME SET

p. 1, 2, 5

Southern Illinois University Press recently announced the publication schedule for The Complete report of the Ninth International Congress of Carboniferous Stratigraphy and Geology, held in Washington, DC and Champaign-Urbana, IL May 17-26, 1979. More than 270 papers and reports prepared and presented by over 350 scientists from 29 countries "constitute a unique record of the status of scientific research on the Carboniferous system--the great sequence of strata that produces much of the world's economically recoverable coal, gas, and oil." Mackenzie Gordon, Jr. is the general editor for the publication. A standing order for the entire set may be placed at a cost of \$325.00 or individual volumes may be purchased: Vol. 1, Official reports, published in February 1984, 160 p., \$25.00 (ISBN 0-8093-1168-2); Vol. 2, Biostratigraphy, available November 1984, 640 p., \$75.00 (ISBN 0-8093-1169-0); Vol. 3, Atlantic Coast basins; Paleogeography and paleotectonics; Sedimentology and geochemistry, available November 1984, 640 p., \$75.00 (ISBN 0-8093-1170-4); Vol. 4, Economic geology: coal, oil and gas, available May 1985, 675 p., \$75.00 (ISBN 0-8093-1171-2); and Vol. 5, Paleontology, paleoecology, paleogeography, available May 1985, 600 p., \$75.00 (ISBN 0-8093-1172-0). Orders may be sent to: Order Dept., Southern Illinois University Press, P.O. Box 3697, Carbondale, IL 62902-3697. There is a \$1.50 charge for postage and handling. Illinois addresses should include 6% sales tax. Orders from outside the U.S. and Canada may be placed through Feffer & Simons, Inc., 100 Park Ave., New York, NY 10017.

THREE NORTH AMERICAN CORRELATION CHARTS RELEASED THROUGH COSUNA PROJECT

In 1977 the American Association of Petroleum Geologists' Research Committee, in cooperation with the Committee on Stratigraphic Correlations, initiated a special research and correlation project, COSUNA (Correlation of Stratigraphic Units in North America), with the objective of producing modern stratigraphic correlation charts of the United States that would update those in current use. The COSUNA charts follow and expand the format of the Canadian correlation charts of 1970. These new charts show complete stratigraphic columns depicting selected sites within the CDS (AAPG Committee on Statistics of Drilling) geological provinces of the United States. Geological survey members from 21 states have contributed stratigraphic columns, prepared data sheets, and extensively reviewed the charts. The charts break the U.S. into 16 regions. Three regional charts are currently available: Northern Rockies/Williston Basin; Southwest/Southwestern Mid-Continent; and the Atlantic Coastal Plain Region. Each is priced at \$8.00. Their catalog numbers are 682, 683, and 684. Orders may be sent to AAPG Bookstore, P.O. Box 979, Tulsa, OK 74101. There is an additional charge for shipping and handling, dependent upon the size of the order and kind of mailing desired.

LIBRARY OF L. URBANA-CHAMPAIGN

NEW EDITION OF GEOLOGICAL DICTIONARY
PROVIDES CORE VOCABULARY IN EARTH SCIENCES

The 1984 third edition of the Dictionary of geological terms, prepared under the direction of the American Geological Institute and edited by Robert L. Bates and Julia A. Jackson, continues the aim of previous editions: "to provide the non-specialist with accurate definitions of the working vocabulary of the earth sciences." The terms cited in the 571-paged dictionary are derived from the comprehensive Glossary of geology and provide the nonspecialist with a core vocabulary free from highly-specialized terms and technical jargon. A new feature is a guide to pronunciation (separation into syllables and the use of accent marks). Phonetic symbols are not used; however, selected foreign terms are spelled out phonetically. Word origins and commonly-used abbreviations are often given. A helpful feature is the use of italization to indicate that a word in a definition can be found defined elsewhere in the book. Cross references are used throughout. The Dictionary is available for \$19.95 from Anchor Press/Doubleday (ISBN 0-385-18100-0; LC 82-45315). Orders for this useful reference guide can be sent to: Doubleday and Company, Inc., 245 Park Ave., New York, NY 10167.

THE COMPLETE GUIDE TO CITING GOVERNMENT DOCUMENTS
AVAILABLE FROM CONGRESSIONAL INFORMATION SERVICE

✓ Congressional Information Service, Inc. has published The Complete guide to citing government documents, a style manual providing detailed information on how to cite major types of government publications. The 154-page paperbound volume contains an overview of the principles and objectives of constructing a citation, plus chapters on citing federal, state, local, regional, and international documents. Rules are given for each document type, along with examples. The manual is designed for quick reference and has a detailed index, table of contents and glossary. The Guide was written by Diane L. Garner and Diane H. Smith, documents librarians at Pennsylvania State University, for the Government Documents Round Table (GODORT) of the American Library Association. Proceeds from sales go to GODORT. Copies may be purchased for \$12.95; prepaid orders have no postage or handling charges. Address orders to: Citing Government Documents, CIS, 4520 East-West Hwy., Suite 800-PR, Bethesda, MD 20814. The publication's ISBN number: 0-88692-023-X.

RUSSIAN VOLCANOLOGY JOURNAL
NOW HAS COVER-TO-COVER TRANSLATION

✓ Vulkanologiya i seismologiya, published since 1979 by the Russian Academy of Sciences, is now available in English. Edited by S.A. Fedotov, the journal features the latest Soviet research in volcanology and related areas: theoretical and experimental studies, communications, and reports on volcanic, seismic, geodynamic, and magmatic processes that occur in the areas of island arcs and other active regions of the earth. The journal will consist of six issues per volume at a subscription price of \$375.00/vol. Volume 1, no. 1, is dated Spring 1984. A free sample copy is available from Gordon and Breach, 50 West 23 Street, New York, NY 10010. The ISSN number for Volcanology & seismology: 0742-0463.

Order for GEX

AGU PRESENTS AWARDS
AT CINCINNATI MEETING

Dr. Xavier LePichon of the University of Paris has received the 1984 Maurice Ewing Medal, given by the American Geophysical Union and the United States Navy "for

leadership in marine geophysics." He was presented the award at AGU's annual Spring Meeting in Cincinnati May 14-17. During his more than 25 years as a scientist, Dr. LePichon has made important contributions in a number of marine science disciplines. His continuing work in the field of plate tectonics is noteworthy. He co-authored several of the early papers that helped to establish the theory and produced the first global map of plate tectonics and motions. The topics of his publications range from ocean circulation to mantle processes to seismic, gravity, magnetic, and geothermal studies. In addition, he has been involved in developing international scientific programs, including the International Program of Ocean Drilling and Project FAMOUS (French-American Mid-Ocean Undersea Study).

Charles V. Theis, a pioneer in the science of groundwater hydrology, was awarded the 1984 Robert E. Horton Medal "for outstanding contributions to the geophysical aspects of hydrology." Dr. Theis' career spans more than six decades, most of which has been spent with the U.S. Geological Survey. He has written many classic papers in his field, including a 1935 paper entitled "The Relation Between the Lowering of the Piezometric Surface and the Rate and Duration of Discharge of a Well Using Groundwater Storage." It laid the foundation for subsequent studies in groundwater hydrology. Dr. Theis has been called the "father of quantitative groundwater hydrology" and the "founder of modern well hydraulics."

The James B. Macelwane Award, "in recognition of significant contributions to the geophysical sciences by a young scientist of outstanding ability," was presented to Mary K. Hudson, research physicist at the Space Sciences Laboratory, University of California, Berkeley; Raymond Jeanloz, associate professor of geology and geophysics at UC, Berkeley; and John H. Woodhouse, associate professor of geophysics, Harvard University. Dr. Hudson was honored for her theoretical research on the microphysics of magnetospheric plasmas. Her studies have added to the basic knowledge about the earth's auroras. Dr. Jeanloz has made important contributions to our understanding of the origin and evolution of the solid earth. Among his specific research interests are chemical and thermodynamic models of mineral structures and convection in the earth's mantle. Dr. Woodhouse's work in theoretical seismology has helped to advance theories about wave propagation in the earth's interior.

Professor Marcel Nicolet was awarded the 1984 William Bowie Medal "for outstanding contributions to fundamental geophysics and for unselfish cooperation in research." His career at Brussels University and at other institutions, both in Belgium and the United States, has produced an impressive list of contributions to atmospheric science. During 1937-40, he concentrated on the physical and chemical processes associated with atmospheric airglow and auroras. After World War II, his many research interests included the constitution of the ionosphere, the mechanisms of infrared airglow formation, and the determination of photoionization and photodissociation coefficients. He predicted the presence of many molecular species in the upper atmosphere before they were measured, and correctly predicted the presence of the helium layer. He has been instrumental in fostering international cooperation and exchange of ideas in aeronomy.

LITERATURE CITATIONS

Booda, Larry L. Oceans 2000 aims at determining long-term needs in oceanographic research. Sea technology, vol. 25, no. 5, May 1984, p. 39.

Heath, R.C. Ground-water regions of the United States. 1984, 78 p. U.S. Geological Survey. Water-supply paper 2242.

Johnson, Tim. Illinois Geographic Information System. Illinois map-notes, no. 5, Spring 1984, p. 2-3.

NEW PUBLICATIONS
(GIS members in caps)

Biogeochemistry, an international journal. Vol. 1 (4 issues), 1984/85. Subscription: \$70.00 plus \$10.00 for postage and handling. \$70.00. Kluwer Academic Publishers, 190 Old Derby St., Hingham, MA 02043.

El Niño and the Southern Oscillation, a scientific plan, by the Climate Research Committee of the National Research Council. Washington, DC, National Academy Press, 1983, 85 p. A limited number of copies are available from: Board of Atmospheric Sciences and Climate, 2101 Constitution Ave., Washington, DC 20418.

English-Russian dictionary of applied geophysics, by B.V. Gusev et al. Oxford, Eng.; Elmsford, NY, Pergamon Press, 1983. 488 p. £ 22.00; US approx. \$40.00. ISBN 0-08-028168-0.

Gold and silver prospecting books in print, compiled by MARY B. ANSARI and Anne Amaral. 2d ed. Reno, Sierra Nevada Chapter, Special Libraries Association, 1984. 23 p. \$4.50 (includes sales tax and shipping costs). Mail orders to: Sierra Nevada Chapter, c/o Anne Amaral, Mines Library, University of Nevada, Reno, Reno 89557.

"This completely revised bibliography contains more than 200 items, including books, government publications, journals and catalogs. The list is partially annotated and covers information on panning, dredging, diving mining law, and the operation of small mines."

Topographic mapping of the Americas, Australia, and New Zealand, by Mary Lynette Larsgaard. 1984. 192 p. \$45.00 US; \$54.00 elsewhere. ISBN 0-87287-276-9. Available from: Libraries Unlimited, P.O. Box 263, Littleton, CO 80160-0263.

The publication offers "an overview of the history and current status of topographic mapping...and brings together information scattered among many diverse and hard-to-find sources. It covers official, publically available civilian and military series of contoured maps at a scale of 1:250,000 or more issued through the early 1980s...It covers twenty-four countries (and discusses) mapping efforts conducted from the colonial era through contemporary times. If no national mapping is available, foreign mapping is noted. A major portion of the book is devoted to an extensive bibliography."

LETTERS TO THE EDITOR

The Montana Tech Library is experiencing difficulty in obtaining NTIS contracted reports on ILL for our patrons. We would like to know if any of the GIS libraries collect or receive NTIS reports on certain topics or from certain contractors. If so, are these libraries willing to lend on ILL, or to make duplicate fiche of reports on microfiche? For example, the Montana Tech Library has a small collection of the GJBX (NURE data) reports from the Bendix Corporation, and we are willing to lend them (paper or fiche) for the cost of the postage. Libraries that have collections which can be borrowed are asked to write Dena Fracolli Stepp, Montana Tech Library, Butte, Montana 59701, with details on the collection, costs involved, etc. I will collect the information and put the results in a later issue of the GIS newsletter. Thank you!

NEW AGI PUBLICATION DISCUSSES
SCIENTISTS' VIEWS ON EVOLUTION

Why scientists believe in evolution, by noted paleontologist Norman D. Newell of the American Museum of Natural History, explains why scientists believe that the complex living organisms of today evolved from simpler and more primitive ancestors of earlier times. Single copies of the 13-paged pamphlet are available free of charge from Andrew J. Verdon, Jr., Director of Education, American Geological Institute, 4220 King St., Alexandria, VA 22302.

PALAEONTOLOGICAL ASSN. INITIATES
NEW FOSSIL FIELD GUIDE SERIES

Fossil plants of the London Clay, by Margaret E. Collinson, is the first volume issued in the Palaeontological Association's new Field guide to fossils series. Until now, fossil determination of the historically important flora of Eocene age had relied on the use of several, separate, specialist monographs. With this new guide, one can use keys accompanied by photographic illustrations to identify over 250 species, including all the common plant macrofossils. An expanded text deals with those modern angiosperm families whose fruits and seeds are well represented in the London Clay flora. The 1983 publication has 124 pages, is paperbound, and is priced at £7.95 (including postage and handling). Its ISBN number: 0-901702-26-9. Orders should be mailed to: Sue Domment, Marston Book Services Limited, P.O. Box 87, Oxford, Eng., OX4 1JF.

POSITION OPEN

HEAD LIBRARIAN, GEOLOGY LIBRARY

Responsible for management of the branch Geology Library with a collection of 60,000 volumes, 30,000 maps and 1,340 serial titles. Responsibilities include collection development, faculty liaison, user education, reference, reserve and circulation services, and database searching.

The Geology Library is designed to serve the research and information needs of the students and faculty of the Department of Geological Sciences, the staff of the Bureau of Economic Geology, and the staff of the Institute for Geophysics, and has a staff of two FTE classified staff and 1.68 FTE hourly employees.

Qualifications: MLS from an ALA-accredited program and substantial science library experience in a medium to large academic library system or geology library and experience with database searching required. Academic background in geology and experience with map collections highly desirable. Ability to work effectively with faculty, students, and staff, and good written and verbal communication skills essential.

Salary dependent upon experience and qualifications; (range) \$21,000-\$24,000. No state or local income tax. Competitive benefits package. Retirement plan options. To ensure consideration, applications should be received by August 15, 1984. Send letter of application and résumé, including the names of three professional references and a statement of salary requirements to Linda Vice, General Libraries, PCL 3.200, The University of Texas at Austin, Austin, Texas 78712-7330. The University of Texas at Austin is an equal opportunity/affirmative action employer.

NEW MEMBERS

Sustaining member: American Geophysical Union
2000 Florida Ave., N.W.
Washington, DC 20009
202/462-6903
GIS representative: A.F. Spilhaus, Jr.

American Cooper and Nickel Company
Suite 110, 1726 Cole Blvd.
Golden, CO 80401
303/278-9233
GIS representative: Terence T. Quirke, Jr.

Margaret Brown
Information Specialist, Dome Petroleum Limited
Corporate Library
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Janet Chisman
Science Library
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Bowling Green State University
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419/372-2856

Frances Clark-Fielder
Technical Clerk
Conoco Inc.
5484 R&D West, ERD
P.O. Box 1267
Ponca City, OK 74603
405/767-6037

Northern Territory Geological Survey
Technical Information Section
GPO Box 2901
Darwin, N.T. 5794
089/81 5844
New GIS representative: Susan H. Hickey

Harriet Irving
University of New Brunswick
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Pamela A. Mofjeld
Assistant Librarian, Natural Sciences Library, FM-25
University of Washington
Seattle, WA 98195
206/543-1243

Sophia A. Smith
Manager, Informational Services
Hart-Crowser and Associates, Inc.
1910 Fairview Ave., East
Seattle, WA 98102
206/324-9530

Margaret Elaine Watson
Librarian (Physical Sciences)
U.S. Geological Survey
1526 Cole Boulevard
Golden, CO 80401
303/234-4133

Barbara F. West
NAEHQ Library Supervisor
Conoco Inc.
P.O. Box 2197
Houston, TX 77001

Pamela E. Wilson
Bass Enterprises Production Co.
201 Main St.
Fort Worth, TX 76102
817/390-6400

Woods Hole Oceanographic Institution
Research Library
Woods Hole, MA 02543
617/548-1400
GIS representative: Carolyn P. Winn

1984 GIS OFFICERS

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

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TREASURER: John D. Crissinger, Geology Library, 3040 Deering Hall, VPI & SU, Blacksburg, VA 24061 (703/961-6101)

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).