

GIS newsletter

Published bi-monthly by the Geoscience Information Society

Number 33 ISSN 0046-5801 December 1974

550.6

GEI

1974

no 33

Mark W. Pangborn, Jr., GIS Founder, Stricken

Mark W. Pangborn, Jr., 62, a nationally recognized earth science librarian and map curator at the U.S. Geological Survey's National Center, Reston, Va., and founder and first president of GIS (1966), died of a respiratorial illness on the evening of December 18, 1974, at Sibley Hospital after being stricken ill at his home in Washington, D.C.

A native of Indianapolis, Ind., Pangborn received an A.B. degree in geology from Indiana University in 1935, and a B.S. degree in library science from the University of Illinois in 1940, completing government graduate courses in geomorphology and soils, and library automation. After working at the Purdue University Library and the Library of Congress as a reference specialist, he joined the U.S. Geological Survey in 1943 as a bibliographer.

During his career with the USGS, Pangborn gained a strong background in earth science literature and geologic map materials pertaining to areas throughout the world. As Map Curator and Head of Reference for the USGS, he became one of the Federal government's most outstanding earth science and cartographic reference specialists, helping to insure that the Survey's library collections and services were second to none.

During his Survey career, Pangborn was the author of numerous published articles on geologic literature and reference materials. He compiled several bibliographies in the earth sciences for the American Geological Institute, and at the time of his death, was the editor of a map review column for *Geotimes*, a monthly earth science journal published by the American Geological Institute.

His professional affiliations included: Special Libraries Association, Association of American Geographers, Geological Society of Washington, and American Society for Information Science. In 1971-72, he chaired the Washington Chapter of the Special Libraries Association's Geographic and Map Division.

He is survived by his wife, Ruth Eleanor, and a son, John Porter, at 5204 Brookeway Drive, Washington, D.C. He is also survived by his father, Mark W. Pangborn, Sr., Indianapolis, Ind., and a sister, Mrs. Eleanor Wilks, Atlanta, Ga.

Services were held in Bethesda, Md. on December 21. GIS members wish to express their deepest sympathy to the Pangborn family. Mr. Pangborn's distinguished talents as expressed in his many contributions to earth science literature make his passing a tragic loss shared by all.

GeoRef Workshop To Be Held Jan. 28-29

"GeoRef Workshop—On-line Searching of GeoRef" is the subject of a workshop to be held at the American Geological Institute (AGI), 5205 Leesburg Pike, Falls Church, Virginia 22041, on January 28-29, 1975. GeoRef is a bibliographic data base of geology produced by AGI. It is available on-line at the search service of Systems Development Corporation. The structure of the data base, the nature of GeoRef indexing, and guidelines for effectively searching GeoRef will be discussed. Searches will be structured and submitted on-line via terminals by groups of those attending. The Workshop is intended for both new and experienced users of GeoRef. AGI is located about three miles west of D.C. For further information contact Betty Clements, c/o AGI or telephone (703) 379-2480.

Schedule of 1975 GSA Section Meetings

NORTHEASTERN SECTION

March 6-8, Hotel Syracuse, Syracuse, New York

SOUTH-CENTRAL SECTION

March 13-14, University of Texas, Austin, Texas

CORDILLERAN SECTION

March 25-27, California State College, Los Angeles, California

SOUTHEASTERN SECTION

April 9-12, Holiday Inn (Rivermont), Memphis, Tennessee

ROCKY MOUNTAIN SECTION

May 3-6, Rodeway Convention Center, Boise, Idaho

NORTH-CENTRAL SECTION

May 15-17, University of Waterloo, Waterloo, Ontario, Canada

Roger Bristol Passes Away In Virginia

GIS Newsletter has been informed that Mr. Roger Pattrell Bristol, husband of Ruth Bristol, GIS founder, passed away November 3, in Charlottesville, Va. Memorial services were held December 8 in the Thomas Jefferson Memorial Unitarian Church, Charlottesville. GIS members express their heartfelt sympathy to Mrs. Bristol and the Bristol family.

Highlights Of The GSA/GIS Convention In Miami Beach

Glorious sunshine, temperatures in the 80's, palm trees and sandy beaches provided an exotic setting for the more than 3,000 attendees at the November 18-20, 1974, GSA/GIS convention in Miami Beach. Prior to the convention, on November 17, outgoing and incoming members of the GIS Executive Board met at the Deauville Hotel. Unfortunately President-elect Jack Morrison was unable to attend because of illness. (We all wish him a speedy recovery.)

Dr. Evelyn Sinha, 1974 GIS President, presided at the GIS Business Meeting/Luncheon in the Carillon Hotel on November 18. Ms. Ruth Keefer, Secretary, read the minutes of the Dallas 1973 business meeting and Ms. Aphrodite Mamoulides gave the Treasurer's report and distributed a print-out listing expenditures for the past year. The expense of the December 1973 *Newsletter* was questioned. Ms. Mamoulides explained that it was a large issue—14 pages. Dr. Sinha expressed appreciation for Ms. Mamoulides' efficient handling of her office during the past year.

Ms. Harriet Smith gave a brief history of GIS, which is celebrating its tenth anniversary. In June, 1964 Ms. Ruth Bristol (on temporary assignment as librarian in the office of Dr. Foster D. Smith, Director of Science Information at the American Geological Institute) planned a dinner meeting, under the sponsorship of the National Science Foundation, for geoscience librarians at the Special Libraries Association meeting in St. Louis. Automated bibliographies and other AGI programs were discussed. Later, Ms. Bristol organized a Panel Discussion on the Problems of Geology Libraries, which was held in November, 1964, at the GSA annual meeting in Miami Beach. A committee was appointed to investigate whether there was enough interest to form an organization and hold future meetings. The final organizational meeting of GIS was held in Kansas City in November, 1965.

Dr. Sinha discussed a letter she had received from James E. Wilson, AGI President:

Dear Dr. Sinha:

It has been emphasized frequently that AGI is a "federation" of the geoscience societies, not "another" or rival society. Accordingly, AGI's program and activities are what the Governing Board directs. One of the program areas given high priority by the Board is in the field of geoscience education. A part of that program is minority participation—encouragement of understanding of the earth sciences, but particularly encouragement of minorities to pursue study in the earth sciences. I'd like to bring to your attention a vital activity to which your society may wish to contribute on its own merits—the *AGI Minority Scholarship Fund*.

This service was developed to fulfill a shortcoming felt by some major corporations and quite a few small ones. They wanted to support a minority scholarship program, but felt that AGI's breadth of contacts and experience in this field would be more effective than attempting to administer their own.

The first AGI scholarship for \$2000 has been awarded to Fernando Blackgoat, a Navajo Indian majoring in geology at Northern Arizona University in Flagstaff. This scholarship was made possible by a contribution from the American

Geophysical Union, one of the member associations of AGI. We hope to award similar scholarships to at least five or more young black, Spanish-surnamed, or American Indian geoscience majors during the next academic year. Scholarships will be awarded only to carefully selected undergraduate or graduate students who need support, who have good academic records, and who are likely to go on to become successful geoscientists and model professionals with whom younger minority-group members can identify. The number of scholarships, of course, will depend upon the response from your society, corporate associates, and the fellow societies comprising AGI.

With a contribution of \$2000 or more a scholarship will be named for your society (or some other name you might wish to select). We plan, however, to provide recipients and the schools they attend with the names of individuals and organizations who contributed to their scholarships, unless the contributor wishes to remain anonymous. We quite realize that you may have a scholarship program for minorities and would prefer to administer it yourselves. AGI's advisory committee on its Minority Participation Program provides a wide variety of academic, institutional, government, and business contacts that might be of use to your own program.

Contributions to the AGI scholarship fund will be used only for student support and not for AGI administrative purposes.

In the discussion that followed Professor Walker suggested that we contribute to the fund. Skip McAfee added that we could mention it on the dues notice, so that a GIS member could donate if he wished to do so.

Hartley Phinney gave the AGI Governing Board report. AGI and GSA have reached an agreement about the publication of the *Bibliography and index of geology*. It will cost \$650 per year. This is a one-time raise, rather than a series of successive raises. *Geotimes* has been removed from blanket distribution and will be on a subscription basis only. Fred S. Honkala is the new director of AGI.

Ms. Ruth Keefer reported that of 204 election ballots mailed to GIS members, 116 were returned.

Ms. Julie Bichteler is the AGI-GIS liaison agent whose responsibility it is to explain NSF's plan to coordinate scientific and technical information through research and development. ASIS has a grant to look at the impact the program will have on the scientific community. Skip McAfee added that they want to hold conferences to find out what users need. How do they obtain information? Do they have any comments on GeoRef? Dr. Louis Cima, Associate Program Director of the National Information Program of OSIS and NSF, has received many letters from geologists and Congressmen and has reevaluated OSIS's reason for being. Seventeen objectives have been formulated. Are they attainable? Can priorities be listed? At this point, OSIS doesn't have funds to carry out all the objectives. They are particularly concerned about the environmental and energy areas. Dr. Cima mentioned that NOAA and NSF will jointly fund next year a workshop involving persons in the environmental areas. Its purpose is to put the users of environmental information in contact with the producers. Dr. Cima also mentioned that NSF could provide speakers at next year's GIS meeting in Salt Lake City. The topics covered

would include energy, transportation, environment and food. Prof. Richard Walker questioned whether OSIS has the funds to do extensive research on the subject of user needs.

Prof. Walker discussed the second edition of the *Directory of geoscience libraries* he and Ms. Diane Parker compiled. 327 libraries are listed in the second edition. The printing cost for 400 copies was about \$500. He queried the group about what price the publication should be sold. It was decided that that would be determined later at the convention. John Price of the National Referral Center, Library of Congress, provided a list of geoscience libraries and other names were provided by GIS members. A questionnaire was mailed to 101 libraries (separate geoscience libraries, not those belonging to a larger scientific library). The task analysis questionnaire responses indicated that about 40% of a librarian's time is involved with technical services.

John Mulvihill discussed GeoRef. In 1974 there were 40,000 citations. The time has come to study its coverage. What is the best mixture of coverage—foreign and domestic? Should we consider organizing a user group from GIS to establish priorities? GeoRef is working on a thesaurus. Mr. Mulvihill wants a disinterested look at the whole situation.

Ms. Mamoulides discussed tutorial workshops in geoscience education as a possible project for GIS. The idea was greeted with enthusiasm. If sessions were regional, local GIS members and other interested parties could plan them. The workshops would acquaint new or inexperienced library personnel with acquiring, processing, and using geoscience literature. Participants would pay a registration fee and would in return receive a manual. A committee will meet in 1975 to lay firm plans for the workshops. Not only will it be necessary to determine how, when, and where the sessions should be held but also how to advertize them effectively.

Ms. Diane Parker was named the new chairperson for the Directory Committee. Prof. Walker suggested that the publication be updated continuously. He mentioned that errors or omissions in the *Directory* should be reported to the Committee.

It was suggested that the GIS standing committees and their members be mentioned in each issue of the *Newsletter*. Ms. Harriet Smith suggested that a new *Guidebooks* standing committee be appointed.

It was announced that AGI will conduct a workshop on on-line searching of GeoRef at Falls Church, Va., January 28-29, 1975.

The GIS technical sessions—"The Availability and Dissemination of Geoscience Information"—were well-attended on Wednesday afternoon, November 20. The papers were informative and timely.

Volume 4 Of Proceedings Available From Ms. Wheeler

Any GIS member prior to November 1974 who did not receive a copy of volume 4 of the *GIS Proceedings*, based on the eighth annual meeting in Dallas, November 1973, should contact Ms. Marjorie Wheeler, Lamar University Library, Box 10021, Beaumont, Texas 77710.

Society For Technical Communication Will Sponsor May Conference

Writers, editors, technical artists, graphics specialists, managers, and educators will convene for the 22nd International Technical Communication Conference in Disneyland (Anaheim, Calif.), May 14-17, 1975. More than 100 experts from government, private industry, and educational institutions will address the conference theme, "The Challenge of Professional Development." The latest methods and equipment used in technical publishing will be described. Concurrent industrial exhibits and award-winning technical art and publications will be displayed. The conference is sponsored by the Society for Technical Communication, the world's largest professional association dedicated to the advancement of the theory and practice of technical communication in all media.

Mr. Keith Percy, First Secretary for Information to the Canadian Embassy in Washington, D.C., will be the keynote speaker. Mr. Percy was instrumental in developing Information Canada, the central information agency that provides publications services for the Canadian government.

Registration information may be obtained from H. Small, 1630 S. Barranca, Sp. 170, Glendora, Calif. 91740.

Texas A&M Organizes Marine Data System

Texas A&M University's Library and Oceanography Department has received on loan from the Navy a \$250,000 data storage and retrieval system that will serve as a nucleus for "File-Search," marine data collected from scientific books and journals. "File-Search" was scheduled to be operational Fall 1974. It is capable of accommodating an unlimited number of reels of film, with each reel containing 32,000 pages of data. Each page of data is coded according to content. In addition to serving the University's own oceanographers and other researchers in marine data, the system is available to qualified representatives of other institutions, government and industry.

Martin Smith Named Head Of UT Geology Library

Martin Albert Smith, formerly Reference Librarian at the U.S. Geological Survey Library in Reston, Va., has been named Librarian of the Geological Sciences Library at The University of Texas at Austin. The library's collection includes 60,000 volumes, 1,500 serial titles, and 200,000 maps and aerial photographs.

Mr. Smith received a bachelor's degree in earth science from New Mexico State University and a master's degree in library science from the University of Maryland.

MGA And Oceanic Index Computer Searches Are Now Available

SDI (Selective Dissemination of Information) and retrospective computer searches of *Meteorological and geostrophical abstracts* and *Oceanic index* (based on *Oceanic abstracts*) are now available and may be initiated by submitting NOAA Form 24-21, Request for OASIS Services. Forms may be obtained from the Technical Information Division (D832), National Oceanic and Atmospheric Administration, Washington, D.C. 20235.

Editerra To Hold Third General Assembly in Finland

Lammi, in the southernmost part of the Finnish lake plateau, will be the setting for the May 6-8, 1975, meeting of the Third General Assembly of Editerra. Session rooms and full board accommodations will be provided at the University of Helsinki's Biological Station at Lammi. Program details may be obtained from the Information Bureau, Geological Survey of Finland, SF-02150 Otaniemi, Finland.

Mary Scott Compiles Catalog of Drilling Data

Mary W. Scott has compiled a *Catalog of drill stem test data* for the North Dakota Geological Survey. The catalog is a compilation of drill stem tests that recovered oil from wells located one-half mile or more from a producing well and in most cases outside a field boundary. A few of the wells were at one time producing wells but are now plugged. These were included because of their location away from currently producing areas. Only results of the tests which recovered oil are reported.

The arrangement of the catalog is by county and then by township, range, and section with this issue of the catalog current through July 31, 1973. The catalog, printed in an 8" x 10" format punched to fit a 3-ring binder, is priced at \$5.00 and is available from NDGS, University Station, Grand Forks, North Dakota 58201.

New Geoscience Publications

Energy: a guide to organizations and information resources in the United States. October 1974, 212 p. \$16.50. Center for California Public Affairs, P.O. Box 30, Claremont, Calif. 91711. (LC 73-21231, ISBN 0-912102-16-0)

Geophysics (Thesaurus). 3 pts. *Pt. I. General terms* (150 francs). *Pt. II. Geographical terms* (80 francs). *Pt. III. Chemical elements and isotopes.* (80 francs) Centre de Documentation, Centre National de la Recherche Scientifique (CNRS), 26 rue Boyer, 75971 Paris CEDEX 20, France.

Geowissenschaften (Geosciences). Edited by Adolf Watznauer. 2 vols. (English-German, 356 p., 46 DM; German-English, 400 p., 46 DM) (Technik-Wörterbücher) Berlin, Veb Verlag Technik, 1973.

International maps and atlases in print. Edited by Kenneth Winch. London, New York, Bowker, March 1974, 862 p. \$39.50. (LC 73-13336)

8,000 cartographic entries are arranged according to the Universal Decimal Classification System, by continent, country, region and city, and are fully described. Three indexes (index of map diagrams, gazetteer index, and index of Universal Decimal key maps) aid the user in quickly identifying a particular global area.

McGraw-Hill encyclopedia of environmental science. Daniel N. Lapedes, editor-in-chief. New York, McGraw-Hill, October 1974, 768 p. \$24.50. (LC 74-13065, ISBN 0-07-045260-1)

More than 300 illustrated articles provide basic information to aid in understanding of the relationship between the human race and the environment. The volume encompasses subjects such as meteorology and climatology, conservation, ecology, oceanography, soil science, pollution, sewage treatment, nuclear engineering, agriculture, mining, and petroleum engineering. Many of the articles indicate how human activities disturb fragile ecosystems; others indicate the limitations of natural resources; others deal with climate control, technological mistakes of the past and present, and the future of agriculture. The encyclopedia interrelates its articles by an extensive cross-reference system and an index. It is abundantly illustrated with photographs, drawings, charts, and diagrams. The volume may serve as a framework that can be used to make preliminary evaluations on the environmental consequences of specific arts, and as a source of knowledge and scientific information and observations that may be used to consider solutions to some of our environmental problems. Intended for the nonspecialist, almost every article opens with a definition of the subject and ends with a bibliography for further reading. All articles are signed, and the authors and their affiliations are identified. Librarians and Information Specialists will find this a handy compendium for desk top use.

Reviewed by
Dr. Evelyn Sinha

Back Issues Of Geological Journals Available From Illinois Geologist

Mr. Harold W. Scott, Geologist, 613 W. Delaware St., Urbana, Illinois 61801, has the following geological journals available for purchase:

American Association of Petroleum Geologists bulletin
v. 25 (1941) - v. 50 (1966) - bound, like new.
v. 51 (1967) to present - unbound.

Bibliography and index of geology exclusive of North America
v. 1 (1933) - v. 23 (1958) - bound.

Canada. Geological Survey. Miscellaneous series.
no. 2 [*Index to paleontology* (Geological publications 1917-1926)]

Geological Society of America bulletin
v. 54 (1943) to present - unbound.

International Geological Congress, 21st, Copenhagen, 1960. Reports.
pts. 8-9 and 22-28.

Journal of paleontology.
v. 1 (1927) - v. 39 (1965) - bound, like new.
v. 40 (1966) to present - unbound.

U.S.G.S. bulletin
Bibliography and index of North American geology, paleontology, petrology, and mineralogy, by F.B. Weeks.
Published as *U.S.G.S. bulletins* 130 (1892/3), 149 (1896), 162 (1898), and 172 (1899).

Bibliography and index of North American geology.
Published as *U.S.G.S. bulletins* 545 (1912), 758 (1921/2), 784 (1923/4), 802 (1925/6), 892 (1935/6), 937-pt. 1 (1929/39), 937-pt. 2 (1929/39), 938 (1940/1), 949 (1942/3), 952 (1944/5) 2 copies, 958 (1946/7), 977 (1949), 985 (1950), 1025 (1951), 1035 (1952/3), 1054 (1954), 1065 (1955).

Lexicon of geological names of the United States (including Alaska). 1938.
Published as *U.S.G.S. bulletin* 896 (2 vols.)

New Members

RENA HENDERSON
1855 W. Malvern
Fullerton, California 92633

BETTY MAE ROBERTSON
1150 North Lake Shore Drive
Chicago, Illinois 60611

CARYL L. SHIELDS
415 E. Hoover, Apt. 305
Ann Arbor, Michigan 48104

Positions Open/Positions Wanted

Position for a Technical Information Specialist with Atlantic Richfield Headquarters Library, Los Angeles. All applicants must have the following:

1. An MLS or equivalent, technical library reference experience.
2. B.S. in geology or chemistry.
3. Two years technical library experience preferred.

Salary commensurate with background. Excellent benefits. Want to fill position as soon as possible. Contact Larry Gater, Employment Coordinator, Atlantic Richfield, 515 S. Flower, Los Angeles, Calif., phone (213) 486-0727.

Comments To The Editor

Some Other Barriers To Geoscience Information Diffusion

It has long been assumed that the language barrier is the main barrier to the diffusion of foreign ideas into the geoscience research of the western world. My recent studies of the influence governing citation selected by British geographical geomorphologists suggests that this is an oversimplification. A comparison of the citation patterns in a number of recent reviews of international research in geomorphology with the citation patterns implied by an index of the current world production of accessible geomorphological literature, i.e.: contemporary listings in *Geo abstracts* (Norwich), suggests there is a strong antipathy to, even the English language literature, of certain nations including: Japan, the U.S.S.R., and the nations of Eastern Europe. Strong preferences are indicated for the literature of Britain and the United States, and to a lesser extent for the literature of Sweden, France and Germany. Frequently, the principal manifestation of these preferences is the repeated citation of a small clique of journals. This would seem to suggest that practical literature research still tends to be periodical—oriented rather than abstract—based. The language barrier, therefore, might be considered to be just one amongst many. One should not fail to consider the barriers to geoscience information diffusion which are imposed by the perpetuation of traditional methods of literature usage and a traditional assessment of the necessity for the citation of research from certain nations.

M.J. Haigh, Departmental Demonstrator,
Department of Geography,
University of Keele,
Keele, Staffordshire,
ST5 5BG. U.K.

(*Editor's note:* Mr. Haigh's comments are based on his study, "National Preferences in Citation Selection—British Geographical Geomorphology (1970-1973)," which will be published in the near future.)

1975 GIS Committee Selections Made

Directory of Geoscience Libraries/Directory of GIS Members

Diane Parker, Chairperson
Richard Walker
(Need one member from Canada and one from an oil company)

Guidebook and Ephemeral Materials Committee

Harriet Smith, Chairperson
Kay Keener
Mary Scott
Dederick Ward

Membership

Regina Brown

Financial Report For 1973/74 Given

FINANCIAL REPORT Nov. 20, 1973—Nov. 15, 1974. (Unaudited)
Submitted by A. Mamoulides at the GIS Annual Meeting Nov. 18, 1974.

MISCELLANEOUS DEPOSITS	
(Includes transfer of funds from former treasurer, redeposit of monies advanced for projects, luncheon receipts, including \$120.00 for Nov. 18, 1974 luncheon)	\$2007.84
INCOME	
Sale of <i>Proceedings</i> and other publications	\$ 308.00
Subscriptions to <i>Newsletter</i> (at \$10.00/yr)	140.11
Membership dues (at \$10.00/yr. individual) (188) (at \$25.00/yr. corporate) (10)	<u>2128.00</u>
	\$2576.11
EXPENSES	
Printing Costs	
\$683.00 Nos. 1-4, 1974 <i>Newsletter</i>	
692.40 1973 <i>Proceedings</i>	
556.82 Last issue of 1973 <i>Newsletter</i>	
	\$1932.22
Postage	
\$100.09 Nos. 1-4, 1974 <i>Newsletter</i>	
53.80 1973 <i>Proceedings</i>	
139.74 Last issue of 1973 <i>Newsletter</i> and committee expenses	
	\$ 293.63
Supplies	
Stationery, mailing labels, envelopes, checks	\$ 81.21
Fees	
AGI Dues, Recorder of Deeds, Washington, D.C., bank charges	\$ 457.35
Other Expenses	
Committee expenses other than postage, such as phone calls, typing, etc.	<u>\$ 103.08</u>
TOTAL EXPENSES (\$1952.85 are actual 1974 expenses)	\$2867.49

Miscellaneous Deposits	\$2007.84
Income	<u>2576.11</u>
	\$4583.95
Expenses	<u>\$2867.49</u>
	\$1716.46 Balance on hand as of November 15, 1974

SAVINGS ACCOUNT	
Initial deposit Oct. 4, 1973	\$ 700.00
Accrued interest through 3rd quarter, 1974	42.96

1975 GIS Officers

PRESIDENT: Jack L. Morrison, U.S. Geological Survey,
P.O. Box 7944, Metairie, Louisiana

VICE-PRESIDENT and PRESIDENT-ELECT: Vivian Hall,
Geology Library, 100 Bowman Hall, University of
Kentucky, Lexington, Ky. 40506, (606/258-5730)

SECRETARY: Barbara Christy, Geology Library,
University of North Carolina, Chapel Hill, No. Caro.
27514, (919/933-2386)

TREASURER: Aphrodite Mamoulides, Head Librarian,
Shell Development Co., P.O. Box 481, Houston, Tex.
77001, (713/667-5661, ext. 633)

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:

Barbara Christy
Geology Library
University of North Carolina
Chapel Hill, North Carolina 27514
(919/933-2386)

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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