

# GIS newsletter

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## Dick Walker Reports On GeoRef Advisory Meetings

"I should like to report on the last two meetings of the GeoRef Advisory Committee of the AGI. R. D. Walker continues to serve as GIS's representative on the committee and also continues to chair the committee.

A meeting was held on November 10, 1976, in Denver, Colorado in conjunction with the annual GSA meeting. Some highlights of that meeting were: Discussion of continuing availability of on-line searching through Systems Development Corporation and the possibility of making the records available through other brokers; the use of microforms for the *Bibliography and index of geology*; the production of the thesaurus; the possibility of producing an abstracting publication of heavily-used journals.

A second meeting was held 7 February at AGI headquarters, Falls Church, Virginia. Agenda items included: Exchange of citations with Bureau de Recherches Géologiques et Minières; indexing changes in the GSA *Bibliography*; the microfiche and paper production of the thesaurus; conversion to UNISIST format; and microfiche production of the GSA *Bibliography*.

Also discussed was a proposal before NSF for a seven month evaluation and design of a National Geoscience Information Network (State Survey). A User Group has been proposed by Mr. William Hambleton, Director of the Kansas Geological Survey. This group would consist of representatives of organizations for which GeoRef had provided bibliographies.

Cornelius Burk, Director of the Canadian Centre for Geoscience Data (and past president of GIS), addressed the Advisory Committee and suggested a study of possible avenues of cooperation between the Centre and AGI/GeoRef.

The next meeting was not discussed but will be no later than November, during the GSA meeting in Seattle, 7-9 November."

(Editor's note: Dick Walker has also authored an article on GeoRef for the April 1977 issue (vol. 1, no. 2) of *On-line*, a new journal.)

## Univ. Of Illinois Paper Discusses Maps, Charts

University of Illinois Graduate School of Library Science's *Occasional paper no. 125* is a useful guide to maps and charts issued by U.S. governmental agencies, departments, bureaus and services. *The acquisition of maps and charts published by the United States Government*, by Jane M. Low, discusses current selection tools and suggests guidelines for map evaluation. The publication is available for \$2.00 prepaid (\$1 each for ten or more) from: Publications Office, Graduate School of Library Science, University of Illinois, 249 Armory Building, Champaign 61820. Checks should be made payable to the University of Illinois.

## Scripta, AGS Initiate Journal On Polar Research

Scripta Publishing Company, in cooperation with the American Geographical Society, has initiated a new quarterly, *Polar geography*. The first issue is dated January-March 1977. The publication's aim is to "make available in English reports of current Soviet, Japanese and West European research in the physical geography (including geophysical and geological disciplines) and human geography of the Arctic and Antarctic." Most of the reports will have originated in Soviet polar publications. Translations from Soviet geographical publications, the Japanese periodical *Antarctic record*, and such Western European periodicals as *Polarforschung* will also be included. In addition, the journal will contain news notes on Soviet economic developments in the northern regions of the USSR. Subscription prices are \$49.00 in the U.S. and Canada and \$53.00 elsewhere. Further information may be obtained from Scripta Publishing Company, 1511 K Street, N.W., Washington, D.C. 20005.

## USBE Publishes Guide To Services

Universal Serials and Book Exchange, Inc., a non-profit clearinghouse for 35,000 periodical titles, recently published a 16-page pamphlet "Your Guide to USBE Services." The publication is available free of charge from USBE, 3335 V Street, N.E., Washington, D.C. 20018.

## Positions Open

### ANTICIPATED VACANCY\*

*Position Title and Grade:*

Supervisory Librarian, GS-12 or 13 (GS-12: \$20,442 per annum) (GS-13: \$24,308 per annum)

*Location:*

U.S. Geological Survey  
Reston, Virginia 22092

*Qualifications:*

A broad academic knowledge of one or more areas of the earth sciences coupled with extensive work experience with geoscience reference materials and related data base operations. Demonstrated supervisory and administrative experience; ability to work effectively with staff members and library clientele. Degree in geosciences; graduate degree in library science. GS-12: In addition to the requirements for GS-11, one additional year of progressively responsible work experience at the GS-11 level or equivalent. GS-13: In addition to the requirements for GS-12, one additional year of progressively responsible work experience at the GS-12 level or equivalent.

*Duties:*

Functions as the Chief, Reference and Circulation Section, of a large research library in the earth sciences. Responsible for (1) overall supervision of a reference and circulation operation designed to fully utilize the Library's collections and resources in meeting the needs of its users; (2) determining and evaluating the techniques and methods required for the Section to be responsive to any expansion of present programs; (3) providing authoritative technical and policy guidance in the areas of reference and circulation to the Survey's field libraries.

*Contact:*

Submit a completed SF-171 to and/or request additional information from George H. Goodwin, Jr., Chief Librarian, U.S. Geological Survey Library, National Center, Mail Stop 950, 12201 Sunrise Valley Drive, Reston, Virginia 22092. Phone: 703/860-6619, FTS 8-928-6619.

The U.S. Geological Survey is an Equal Opportunity Employer.

\*Candidates for professional library positions in the Federal Government should see that their names are placed on the appropriate Civil Service register. This may be done by filing an application (Form SF-171) with the Washington, D. C., U. S. Civil Service Commission—WAS, 1900 E Street NW, Washington, D. C. 20415.

### ANTICIPATED VACANCY\*

*Position Title and Grade:*

Librarian, GS-9 (\$14,097 per annum)

*Location:*

U. S. Geological Survey  
Reston, Virginia 22092

*Qualifications:*

MLS degree. Thorough knowledge of Anglo-American Cataloging Rules. Prefer applicants with some academic background in earth sciences and foreign languages. OCLC and serials cataloging experience desirable.

*Duties:*

Functions as one of a team of professional catalogers for a large research library in the earth sciences. Is expected to perform classification and cataloging for monographs, plus analytical cataloging for some serial publications as required. Performs full descriptive and subject cataloging, as well as recataloging when necessary.

*Contact:*

Submit a completed SF-171 to and/or request further information from Mr. Bobby M. Reed, Chief, Catalog Section, U.S. Geological Survey Library, National Center, Mail Stop 950, 12201 Sunrise Valley Drive, Reston, Virginia 22092. Phone: 703/860-6611, FTS 8-928-6611.

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*Position Title and Grade:*

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*Location:*

U. S. Geological Survey  
Reston, Virginia 22092

*Qualifications:*

MLS degree. Bachelor's degree with subject background in geology/geography desirable. Work experience in earth-science library helpful.

*Duties:*

Functions as one of a team of reference librarians who are highly service-oriented. Involved in all aspects of reference work, including reference desk duty, book selection, computerized data base searching, and inter-library loan activities.

#### Contact:

Submit a completed SF-171 to and/or request additional information from: George H. Goodwin, Jr., Chief Librarian, U. S. Geological Survey, National Center, Mail Stop 950, 12201 Sunrise Valley Drive, Reston, Virginia 22092. Phone: 703/860-6619, FTS 8-928-6619.

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## Wisconsin Mapping Data Available From State Agency

Wisconsin's State Cartographer's Office was established by State statute in 1973 to be a centralized source of information on mapping and aerial photographic coverage in Wisconsin. While essentially functioning as a state agency, the Office is a department in the University of Wisconsin-Madison College of Letters and Science. It serves governmental agencies, academic institutions, commercial organizations, and the general public.

It establishes and maintains data files on significant coverage of Wisconsin but does not sell or house those materials available from other state, Federal or local governmental agencies, universities and commercial firms. Information on a wide variety of materials is available, e.g.: planimetric and topographic base maps, geologic and soils mapping, aeronautical charts, geodetic information (Federal only), hydrographic charts, satellite imagery, and conventional aerial photography.

Among the publications issued by the State Cartographer's Office are the following:

*Catalog of aerial photography 1971-1976 on Wisconsin*, prepared by Arthur L. Ziegler and Christine Reinhard. December 1976. 76 p. (*Editor's note*: Christine Reinhard is a member of GIS.)

*Catalog of Federal horizontal control & leveling on Wisconsin*, prepared by Arthur L. Ziegler and Christine Reinhard Hanson. September 1975. 23 p.

*Earth science maps of Wisconsin, 1818-1974, a bibliography and index*, by Christine Reinhard Hanson. 1975. (*Wisconsin State Cartographer's Office. Information circular no. 1*) 15 p.

*Wisconsin mapping bulletin*. Quarterly.

The publications are available free of charge from the State Cartographer's Office, 144 Science Hall, University of Wisconsin-Madison, Madison 53706. Phone: 608/262-3065.

## New Members

Robert William Bertrand  
932 South Spruce Street  
Casper, Wyoming 82601  
(Earth Science Librarian, Natrona County Public Library)

Susan M. Coniglio  
2 Creekside Drive  
Orchard Park, New York 14127  
(Assistant Librarian, School of Public Health, University of Michigan, Ann Arbor; presently enrolled as a graduate student, Department of Mineralogy and Geology, University of Michigan)

Janice T. Fitzpatrick  
6615 Oak Drive  
Alexandria, Virginia 22306  
(Map Librarian, U. S. Geological Survey Library, Reston, Virginia)

Susan O. Gallanter  
Technical Librarian, Amax Exploration, Inc.  
4704 Harlan Street  
Denver, Colorado 80212

John Sandy  
Assistant Science Librarian  
University of Nebraska  
207 Love Library  
Lincoln, Nebraska 68508

## Literature Citations

(GIS members in caps)

ANSARI, MARY B. Compilation and analysis of a state map and aerial photography directory, a Nevada experience. *Western Association of Map Libraries. Information bulletin*, vol. 8, no. 2, March 1977, p. 97-101.

BICHTELER, JULIE. Special libraries in the Philippines. *Special libraries*, vol. 68, no. 1, January 1977, p. 28-34.

Crotts, Joe. An index to the Defense Mapping Agency/Army Map Service depository catalogs. *Western Association of Map Libraries. Information bulletin*, vol. 8, no. 2, March 1977, p. 124-132.

Johnson, Sheila Grant. Geographic arrangement of topographic maps. *Special libraries*, vol. 68, no. 3, March 1977, p. 115-118.

Schorr, Alan Edward. Map librarianship, map libraries and maps, a bibliography. Supplement I. *Special Libraries Association. Geography and Map Division. Bulletin*, no. 107, March 1977, p. 2-18.

Swinnerton, J. R. Building a National Cartographic Information Center. *Special Libraries Association. Geography and Map Division. Bulletin*, no. 107, March 1977, p. 54-57.

Trezza, Alphonse F. Toward a national periodicals system. *Special libraries*, vol. 68, no. 1, January 1977, p. 7-12.

## New Publications

*Bibliography and selected abstracts of reports on water resources and related subjects for Arkansas through 1975*, by R. T. Sniegocki. Prepared by the U.S. Geological Survey in cooperation with the Arkansas Geological Commission. 1976. 237 p. (Arkansas Geological Commission. Water resources summary no. 10). Available from: Arkansas Geological Commission, Vardelle Parham Geology Center, 3815 West Roosevelt Road, Little Rock 72204.

*Coal and the environment abstract series: mine drainage bibliography, 1910-1976*. Compiled by Virginia E. Gleason and Henry H. Russell for the U.S. Environmental Protection Agency and Pennsylvania Dept. of Environmental Resources. Sept. 30, 1976. 288 p. Free. Available from: Bituminous Coal Research, Inc., 350 Hochberg Rd., Monroeville, Pa. 15146; Pennsylvania Dept. of Environmental Resources, Div. of Mine Area Restoration, P.O. Box 1476, Harrisburg, Pa. 17120 or U.S. Environmental Protection Research Laboratory, Resource Extraction and Handling Div., Cincinnati, Ohio 45268.

*Directory of palaeontologists of the world*, by Ephraim Gerry. 3d ed. 1976. 305 p. Available for \$9.50 from Universitetsforlaget, Box 7508, Skillebekk, Oslo 2, Norway, or International Palaeontological Association Treasurer, Room E-206, Museum of Natural History, Washington, D.C. 20560.

*Energy—a scientific, technical and socio-economic bibliography*, by Kitty Hsieh. (Oregon State University, Corvallis. Bibliographic series no. 12) Corvallis, Oregon State University Press, 1976. 90 p. pap. \$2.50. (ISBN 0-87071-132-6)

*Mining year book 1976*. 1976. 194 p. \$7.50. Published by Colorado Mining Association, 330 Denver Hilton Office Bldg., 1515 Cleveland Place, Denver 80202.

Papers presented at the 79th National Western Mining Conference and Exhibition.

*Natural hazards observer*, vol. 1, no. 1, September 1976-Quarterly. Free. Natural Hazards Research and Applications Information Center, Institute of Behavioral Science no. 6, University of Colorado, Boulder 80309.

*A selected, partially annotated bibliography of recent natural hazards publications, 1977*, by Kathleen Torres and Anita Cochran. 1977. \$2.00. Available from: Natural Hazards Research and Applications Information Center, Institute of Behavioral Science, University of Colorado, Boulder 80302.

Contains approximately 200 entries of 1975-76 publications concerned with the reduction of losses from natural hazards. Is arranged according to hazard and has subject and author indexes. Most entries are annotated.

*Tectonics of the Pacific Basin and the Circum-Pacific Rim, an annotated bibliography for the interval 1976-1975*, by H. J. Harrington. 1976. 202 p. Available from: Secretary, Dept. of Geology, University of New England, Armidale, Australia 2351.

*Water publications of state agencies, a bibliography of publications on water resources and their management published by states of the United States*, edited by Gerald J. Giefer and David K. Todd. 1976. 2 vols. 506 p. \$49.50. Available from: Water Information Center, Inc., 7 High St., Huntington, New York 11743.

Includes the original *Water publications of state agencies*, published in 1972, and the just published *First supplement 1971-1974*.

## 1977 GIS Officers

**PRESIDENT:** John G. Mulvihill, Manager, GeoRef, American Geological Institute, 5205 Leesburg Pike, Falls Church, Va. 22041 (703/379-2480)

**PAST PRESIDENT:** Vivian S. Hall, Geology Librarian, 100 Bowman Hall, University of Kentucky, Lexington, Kentucky 40506 (606/258-5730)

**VICE-PRESIDENT and PRESIDENT-ELECT:** Richard D. Walker, Library School, University of Wisconsin, Madison, 600 North Park Street, Madison, Wisconsin 53706 (608/263-2919 or 263-2900)

**SECRETARY:** Mary W. Scott, Leonard Hall, Room 102, University of North Dakota, Grand Forks, North Dakota 58202 (701/777-4349)

**TREASURER:** Katherine L. Keener (Code 25111), Librarian, Naval Environmental Protection Support Office, Naval Construction Battalion Center, Port Hueneme, Calif. 93043 (All correspondence should be marked PERSONAL OFFICIAL.) Phones: AUTOVON - 360-5952; FTS - 799-5952; Commercial - 805/982-5952; Home - 805/486-3473.

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 \$12.00 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:

Mary W. Scott  
Leonard Hall, Room 102  
University of North Dakota  
Grand Forks, North Dakota 58202

GIS members are invited to contribute articles or news of general interest to the membership. Please submit all material to the Editor.

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

# FIRST ANNOUNCEMENT —



# 1977 ANNUAL MEETING

## Seattle, Washington — November 7-9

Seattle, where the mountains meet the sea, will host the 1977 Annual Meeting. At 14,410 feet Mt. Rainier watches over the city, nestled between the Cascade and Olympic mountain ranges. Hundreds of miles of inland waterways provide a unique setting, both geologically and scenically. Its location in the northwest corner of the U.S. has historically made Seattle the jumping-off point for Alaska and Hawaii.

Technical sessions will be held at the spacious Seattle Center, well known for the 600-foot-high Space Needle. Headquarters will be the Washington Plaza Hotel, only three minutes from the Center by monorail.

The wealth of geologic phenomena to be seen in the Cascade Mountains, the Puget Lowlands, and the Olympic Mountains allows a wide choice of interesting field trips before and after the meetings.

Seven associated societies will hold concurrent annual meetings with GSA: Cushman Foundation, Geochemical Society, Geoscience Information Society, Mineralogical Society of America, National Association of Geology Teachers, Paleontological Society, and the Society of Economic Geologists.

Serving as general chairman for the 1977 meeting is Don J. Easterbrook, Department of Geology, Western Washington State College, Bellingham, Washington 98225, (206) 676-3583.

Social events will include the welcoming party on Sunday, November 6, and the annual banquet on Tuesday, November 8.

● **REGISTRATION.** Take advantage of preregistration rates, which will be lower than on-site registration rates. Registration fees and forms will be included in the second announcement and will appear in the August News & Information.

Deadline for preregistration is September 19, 1977.

● **HOUSING.** Room rates will begin at approximately \$22 for singles and \$45 for doubles. Please use the official housing form which will appear in the August News & Information. Low-cost accommodations will be available for students.

● **TECHNICAL PROGRAM.** Authors of technical papers are urged to consider using the informal "poster-session" format for presentation because meeting room space will be limited at the Seattle Center. Poster sessions will be organized according to topic and scheduled to minimize overlap with oral papers on the same subject. All abstracts, whether submitted for oral presentation or poster session will be reviewed for content and quality.

For oral papers, projection equipment will be provided for 2 x 2 (35 mm) slides only (no dual projectors). Each poster session participant will be provided with one 4' x 8' tackboard for display, but no projection equipment, electrical outlets, or tables will be available.

For information or assistance regarding the GSA technical program, please contact John Whetten, Department of Geological Sciences, University of Washington, Seattle, Washington 98195 (phone: 206-543-7349), or Scott Babcock, Department of Geology, Western Washington State College, Bellingham, Washington 98225 (phone: 206-676-3592).

Abstracts for the GSA technical program should be submitted on a form available from the Abstracts Secretary and accompanied by a \$20 abstract fee (in U.S. funds). Please make checks payable to the Geological Society of America. Abstracts not accompanied by prepayment will not be considered. A full

refund of the fee will be made on abstracts not accepted. The abstract form will be used as a camera-ready copy for publication and an additional \$15 fee will be charged to the senior author if retyping is necessary. There will be no opportunity for authors to review or revise the retyped material. Please note that the GSA Council has ruled that, excluding symposia, no one may be senior author of more than one abstract or be coauthor of more than two. *Deadline for receipt of abstracts at GSA headquarters is July 1, 1977.* Mail to Abstracts Secretary, Geological Society of America, 3300 Penrose Place, Boulder, Colorado 80301.

● **AEG ANNUAL MEETING.** The Association of Engineering Geologists will hold its annual meeting in Seattle on November 2 and 3; there will be no general sessions specifically devoted to engineering geology in the GSA technical program. Instead, the ASCE-GSA-AEG Intersociety Committee on Engineering Geology will sponsor a full-day symposium on Capable Faults and Engineering Structures to be held as part of the GSA meeting on Monday, November 7.

Those wishing to submit abstracts to the AEG meeting should send them to Ernest R. Artim, Department of Natural Resources, Division of Geology and Earth Resources, Olympia, Washington 98504.

### ● SYMPOSIA: TITLES, SPONSORS, ORGANIZERS

1. *Capable Faults and Engineering Structures:* ASCE-GSA-AEG Intersociety Committee on Engineering Geology; George Sowers.
2. *Devonian of Western North America:* Paleontological Society; Michael Murphy.
3. *Cenozoic Tectonics and Regional Geophysics of Arc and Back-Arc Environments in the Pacific Northwest:* Geophysics Division; Gordon Eaton and George Sutton.
4. *Cordilleran Metamorphic Core Complexes:* GSA; Peter Coney, Max Crittenden and George Davis.
5. *Pacific Northwest Cenozoic Biostratigraphy:* GSA; John Armentrout.
6. *Time-Stratigraphic Charts for the Precambrian of the U.S. and Mexico:* IUGS Working Group on the Precambrian; Jack Harrison.
7. *Geochemistry and Hydrology of Continental Geothermal Systems:* Geochemical Society and Hydrogeology Division; Bruce Hanshaw and Robert Fornier.
8. *Hydrothermal Systems at Oceanic Spreading Centers:* Geophysics Division; Peter Rona and Robert Lowell.
9. *Geology of Uranium Deposits:* Society of Economic Geologists; J. Thomas Nash.
10. *Hydrogeology of Radioactive Waste Disposal:* Hydrogeology Division; John Bredehoeft.
11. *Geoscience Information Retrieval Update:* Geoscience Information Society; Richard Walker.
12. *Geology of the Explorers in Western North America:* History of Geology Division; George White.
13. *Non-traditional Aspects of Geologic Education:* National Association of Geology Teachers; Richard Paull.
14. *Quaternary Tephrochronology:* Quaternary Geology and Geomorphology Division; Stephen C. Porter.
15. *Models for Prediction in the Earth Science:* Mathematical Geologists of the United States; Richard McCammon.

16. *Geological Applications of Satellite Remote Sensing*: GSA; Murray Felsher.

17. *The Nature and Distribution of Organic Matter in Recent Continental Shelf Sediments*: Geochemical Society; Keith Kvenvolden and David Shaw.

18. *Spectroscopy of Rock-Forming Minerals*: Mineralogical Society of America; Donald Peacor.

In addition to the formal symposia listed above, there will also be a poster symposium on the applications of remote sensing to geologic interpretation, organized by Murray Felsher, and a discussion session on age-dating and chronology of the Late Pleistocene continental record, sponsored by the Quaternary Geology and Geomorphology Division and organized by Charles Matsch.

#### • GSA FIELD TRIPS

1. Bedrock geology of the North Cascades, November 5, 6.
2. General geology of the southern Olympic Coast, November 5, 6.
3. Tertiary stratigraphy of the central Cascades, November 4, 5, 6.
4. Volcanic stratigraphy and tectonics of the southern Cascade Range, November 5, 6.
5. Structure and stratigraphy of Orcas Island, San Juan Group, November 5, 6.
6. Quaternary geology of the Fraser Lowland, British Columbia, November 5, 6.
7. North Cascades overflight, November 7, 8.
8. Paleogene stratotypes of southwestern Washington, November 10, 11.
9. Structure and plutonic and volcanic rocks of the central Cascades, November 10, 11.
10. Geology of the southern San Juan Islands, November 10, 11, 12.
11. Stratigraphy and structure of the Yakima basalts, November 10, 11.
12. Quaternary geology of the Columbia Plateau, November 10, 11, 12.

For further GSA field trip information, write or call E. H. Brown or Ross C. Ellis, Department of Geology, Western Washington State College, Bellingham, Washington 98225 (phone: 206-676-3586).

#### • AEG FIELD TRIPS

1. Dams and landslides Columbia River of Washington and British Columbia, October 30, November 1.
2. Teton Dam failure, Idaho, November 4.
3. Problems of very recent landslides—Cascade Mountain Front—Snoqualmie Falls underground power plant, November 4.
4. Satsop Nuclear Power Plant, November 5.
5. Coastal Engineering geology—northern Olympic peninsula, November 5.

For further AEG field trip information, write or call Richard W. Galster, U.S. Army Engineer District, Seattle Corps of Engineers, 4735 E. Marginal Way So., Seattle, Washington 98134 (phone: 206-764-3711).

This schedule is tentative and subject to change due to weather conditions at the time and the possibility of adverse fuel and transportation conditions.

• **GUEST ACTIVITIES.** Organized trips will include a personalized tour of scenic Seattle: Lake Washington, Chinatown, Pioneer Square, University of Washington, and the Seattle Center with lunch at the Space Needle. A second tour will be a drive into the foothills of the Cascade Range to the quaint renowned Snoqualmie Falls Lodge and the beautiful falls that are higher than Niagara. The tour will include the Lodge's famous breakfast and a description of the geology of the area. A third activity will be a tour of Seattle's oldest section and the unique underground city of pioneer Seattle.

After the underground tour will be a lunch in Pioneer Square. A cultural tour of Seattle will include the Seattle Art Museum with its famous jade collection and the Burke Memorial with its exhibit of northwest Indian art. This tour also includes lunch at Ivar's Indian Salmon House.

Space on all tours will be limited and on a first-come, first-served basis. Preregistration is strongly advised.

A new feature of the guest program at the Seattle meeting will be a mini-lecture series on geology for the nonprofessional, including such topics as aerial surveillance of the recent steam vent activity on Mt. Baker. In this way, we hope to be informative as well as entertaining.

• **GROUP ACTIVITIES.** Space assignments for meetings, breakfasts, luncheons, dinners, and cocktail parties are made by the Annual Meeting Department at GSA headquarters. A questionnaire will be sent to those who used space at the 1976 Annual Meeting. If you do not receive a form and wish to reserve space, write to Annual Meeting Secretary, Geological Society of America, 3300 Penrose Place, Boulder, Colorado 80301. Deadline for reserving space is June 15, 1977. No official space assignments will be made after that date.

• **SPECIAL ACTIVITIES.** The Committee on Minorities in the Geosciences will be sponsoring the second special one-day program on career opportunities in the geosciences for about fifty secondary-school teachers and career counselors and selected minority students from the Seattle Public Schools at the annual meeting in Seattle in November. The program will consist of a morning series of talks and films on the nature of the geosciences and geoscience careers, followed by a field trip in the Seattle area to demonstrate the role of geology in providing essential information for the safe development of urban areas and in preserving the quality and beauty of our environment.

• **SCIENCE THEATER.** The Science Theater will provide an opportunity for registrants to view an exciting program of recent films of geologic interest. It will be in operation during session hours.

• **EXHIBITS.** Exhibit space will be available in Seattle Center Exhibition Hall. If your university, organization, or company is interested in exhibiting, please write or call Fred Handy, Annual Meeting Manager, Geological Society of America, 3300 Penrose Place, Boulder, Colorado 80301 (phone: 303-447-2020).

• **EMPLOYMENT INTERVIEWS.** An employment interview service will be available for both employees and employers. Fees for applicants seeking jobs are \$12. For employers requesting listings of applicants, the minimum fee is \$40 for two specialty listings and \$10 for each additional specialty listing. Recruiters may rent interview booth space during the meeting at a nominal charge. Forms will appear in the June News & Information. Contact Charlene Bicknell, Membership Coordinator, Geological Society of America, 3300 Penrose Place, Boulder, Colorado 80301 (phone: 303-447-2020).

**SECOND ANNOUNCEMENT.** A multiple-page insert containing additional information about the annual meeting will appear in the August News & Information. In addition to preregistration forms, the insert will contain forms for making reservations for housing, field trips, annual dinner, and guest activities. Additional copies may be obtained by writing to Annual Meeting Department Secretary, Geological Society of America, 3300 Penrose Place, Boulder, Colorado 80301.