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GIS newsletter

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International Conference Committee Anticipates Excellent Attendance

Members of the Planning Committee for the International Conference on Geological Information anticipate an excellent attendance at the meeting scheduled for London April 9-12. The GIS Committee (Dederick Ward, Neil Burk and Reggie Brown) and the Geological Society of London, Geological Information Group Committee (Antony Harvey and Judith Diment of the Palaeontology Library, British Museum) have now mailed Final Circulars to prospective attendees.

International Conference On Geological Information London, April 9-12, 1978

Program

During Monday, April 10, and Tuesday, April 11, there will be an exhibition of related publications, both antiquarian and current, and demonstration of computer-based services in a room adjacent to the Lecture theatre.

Abstracts of the papers will be distributed to all delegates who register and it is hoped that the full proceedings of the Conference will be published.

SUNDAY, APRIL 9

at Imperial College of Science and Technology

- 1700 Registration
- 1930 Informal gathering

MONDAY, APRIL 10

at Imperial College of Science and Technology

- 0900 Registration

Session 1

Review of geological documentation*
Chairman—Professor J. Sutton

- 0930 History of geoscience documentation*
- 1000 Brief reviews of the current state of the art of geological documentation*

United States of America—Mr. D. C. Ward
Canada—Dr. C. F. Burk
West Germany*
France—Mr. J. Gravesteyn

- 1100 Coffee

- 1130 United Kingdom*
Australasia—Ms. L. Stevenson
India*
Brazil—Ms. N. Z. Jardim and Ms. M. R. Migliorato
International activities—Dr. S. van der Heide

- 1230 General discussion
- 1300 Lunch

Session 2

Aspects of geological documentation

Chairman—Dr. C. F. Burk

- 1400 Publication practices used by the professional societies—Mr. W. Cochran
- 1430 Indexing and abstracting: degrees of freedom—Mr. J. Gravesteyn
- 1500 The roles of UNISIST/ICSU AB standard bibliographic descriptions and computer-assisted editing in file processing—Mr. J. G. Mulvihill and Dr. G. N. Rassam
- 1530 Tea
- 1600 Geological data management—Dr. K. Jeffry
- 1630 On-line information retrieval: present status and future implications—Mr. G. Lea

TUESDAY, APRIL 11

at Imperial College of Science and Technology

Session 3

Application of information handling to applied geology
Chairman—Mr. M. Haines

- 0930 What information is available for applied geologists? —Mr. M. Haines
- 1000 Data requirements for resource assessment and analysis—Dr. A. L. Clark
- 1030 To be arranged
- 1100 Coffee
- 1130 International Energy Agency—Mr. B. Moss
- 1200 International access to the Petroleum Abstracts Information System—Dr. R. W. Graves and Dr. J. A. Bailey
- 1230 General discussion
- 1300 Lunch

Session 4

Library visits

- 1400 Visits to the libraries of either the:
British Museum (Natural History) and Institute of Geological Sciences
OR
Institute of Mining and Metallurgy
- 1900 Formal reception (buffet) at the Geological Society of London, Burlington House

WEDNESDAY, APRIL 12

at the Geological Society of London

Session 5

Documentation in specialized areas
Chairman—Ms. J. E. Hardy

- 0930 Applications, availability and acquisition of earth satellite imagery for geology—Mr. N. Press
- 1015 Bibliographic control of geological maps—Ms. J. A. Diment and Mr. J. Schroeder
- 1100 Coffee
- 1130 The link between data and documentation*
- 1215 Translations—Dr. D. N. Wood

MAR 10 1978

GEOLOGY

Session 6

User viewpoints

Chairman—Dr. F. Betz

- 1400 Geology presented in collections of papers from the published literature—Dr. F. Betz
- 1420 Geoscience information sources and services from the user's viewpoint—Professor J. Bichteler
- 1440 Information transfer to the geoscientist through International Union of Geological Sciences—Ms. R. Walcott
- 1500 Status of information education for geoscientists in the United States and Canada—Ms. D. C. Parker
- 1520 Geoscience information problems in developing countries and some practical approaches—Dr. A. R. Berger and Mr. V. Ricaldi (To be given by Dr. L. A. Heindl)
- 1540 Tea

Proposed International Association for Geological Information

Chairman—Dr. D. N. Wood

- 1600 Panel discussion
International Union of Geological Sciences*
Geological Information Group, Geological Society of London—Mr. A. P. Harvey
Geoscience Information Society—Professor R. D. Walker
- 1700 Closing of the Conference—Professor R. D. Walker

*Speaker not yet confirmed.

OTHER EVENTS OF INTEREST DURING THE WEEK OF APRIL 10, 1978

- April 13 Geological Society of London. GEOREF search workshop.
- April 14 Cambridge. Annual Meeting of the Society for the Bibliography of Natural History.

IMA Issues New Directory Of Mineral Collections

International Mineralogical Association's Commission on Museums has announced the publication of the second, greatly enlarged edition of the *World directory of mineral collections*. There are 32 countries and 455 collections included in the 1977 edition, compared with 22 countries and 231 collections in the *first* (1974) edition. Each collection's description includes the name of the owner; location; total number of specimens; number of minerals, rocks, ores, gems and meteorites; specialties and uses of the collection; availability of specimens for study, loan or exchange; admission hours; and miscellaneous notes. The *Directory* may be ordered for \$10.00, including surface postage, from: Dr. Ole V. Petersen, Geological Museum, Øster Voldgade 5-7, DK-1350, Copenhagen K, Denmark. Checks or money orders should be made payable to the International Mineralogical Association.

NCIC Compiles Microfilm Library Of Topographic Maps

The National Cartographic Information Center, Reston, Va., is nearing completion of its long-term project to produce a master microfilm library of every U.S. Geological Survey topographic map published through 1972. Every edition of a topographic quadrangle issued by the Survey has been filmed. NCIC divided the collection of 130,000 maps into two sets for microfilming: a complete official file (including maps now out of print and no longer available for distribution) and a subset of maps currently being distributed. Within each set, the maps are grouped by state and arranged alphabetically by quadrangle name (smallest scale first). Each map has a legend giving the name of the state, an agency code and a six-digit roll and frame number. The National Archives and Record Service (NARS) has microfilmed the maps on 35mm black-and-white high-resolution film at a 20X reduction. It has used AHU film in 100-foot, 500-frame rolls with one map to a frame. The complete official file for Texas will take 23 full or partial rolls; smaller states may be represented on two or three rolls. Each roll of microfilm is available for \$20.00. Further information may be obtained by writing to the National Cartographic Information Center, U.S. Geological Survey, 507 National Center, Reston, Va. 22092.

USGS Lauds Denver Library Staff For Extraordinary Salvaging Efforts

(From the February 15, 1978, issue of *Library journal*)

According to the U.S. Geological Survey's calculations, the efforts of twenty-three library staff members who salvaged materials after a 1976 fire at the Denver Federal Center in Lakewood, Colo., "saved the Government some \$900,000 in costs for labor and replacement of books and other library materials. USGS decided to acknowledge 'the unselfish and extraordinary accomplishments of the library staff, which far exceeded job requirements, by giving each employee who participated in the salvage operation an award of \$200. The staffers pulled about 100,000 volumes from Denver Center stacks to check for damage; salvaged some 10,000 items, including maps; and helped move the entire library collection to a new location. The building selected to house the library was still under construction, and (they) had to don hard hats and work around construction workers—without the benefit of lights, walls, heat, or rest rooms."

GIS Members In The News

VIVIAN HALL, Geology Librarian, University of Kentucky, Lexington, has been appointed a member of the Kentucky White House Conference on Libraries and Information Services.

Stanford Univ. Transfers Shell, Fossil Collections

Stanford University's Department of Geology has transferred its molluscan shell collection, type specimens, and a major part of its invertebrate fossils to the Department of Geology, California Academy of Sciences. The specimens will remain there on indefinite loan. The Academy and Stanford collections are now available for study. The combined shell collection, containing an estimated one million specimens, is world-wide in scope but especially rich in marine species from the Eastern Pacific and land snails from Western North America. Among the fossils transferred to the Academy are Stanford's Cenozoic stratigraphic collection and systematic collection of fossil cephalopods and echinoids. The combined fossil collection numbers about one million specimens (especially mollusks) principally from Cenozoic and Late Mesozoic rocks of the Pacific Coast of North America (Alaska to Mexico). The combined type collection contains several thousand specimens, including primary and secondary types of living mollusks, and fossil invertebrates (mostly mollusks), vertebrates and plants.

New Publications

Climates of the states. Ed. by James A. Ruffner and Frank E. Bair. Detroit, Gale Research, 1978. 2 vols. \$38.00 set. (LC 76-11672; ISBN 0-8103-1042-2)

Part 1, *Climates of the states (tables, graphs, maps, and bibliographies)*, is based on data for the period 1941-1970, originally published by the National Oceanic and Atmospheric Administration. Many of the tables are updated through 1974. Part 2 is entitled *Federal and state public services in climate and weather*.

Doe, B. R. *A list of references on lead isotope geochemistry, 1970-1974 (with an Addendum to previous lead isotopes listings)*. 1977. 37 p. (U.S. Geological Survey. Open-file report 77-749) Microfiche \$3.50; paper copy \$13.00. Available from: Open-File Services Section, Branch of Distribution, U.S. Geological Survey, Box 25425, Federal Center, Denver, Colo. 80225.

Paylore, Patricia. *Arid lands research institutions; a world directory*, 2d ed. Tucson, University of Arizona Press, 1977. 318 p. pap. \$7.50.

Water supply and management. Bi-monthly. Vol. 1-1978. Subscription: U.S. \$106.00 (annual); U.S. \$201.40 (two years, 1978/79) Oxford, Eng., Elmsford, New York, Pergamon Press.

Literature Citations

(GIS members in caps)

BIER, ROBERT A., JR. On demand computer cartography. *Special libraries*, vol. 69, no. 2, February 1978, p. 61-65.

Darragh, T.A. The first geological maps of the continent of Australia. *Journal of the Geological Society of Australia*, vol. 24, part 5, September 1977, p. 279-305.

Energy materials, a classified listing. *Library journal*, vol. 103, no. 1, January 1, 1978, p. 71-79.

An energy source directory. Compiled by Neal-Schuman Publishers, Inc. *Library journal*, vol. 103, no. 1, January 1, 1978, p. 26-70.

Martin, Susan K. The quest for a national bibliographic network. *Library journal*, vol. 103, no. 1, January 1, 1978, p. 19-22.

Orr, Janet R. Study of the *Arctic bibliography* and the abstracting and indexing services. *Arctic bulletin*, vol. 2, no. 12, p. 295-302.

Ray, Jean M. Who borrows maps from a university library map collection—and why? Report II. *Special libraries*, vol. 69, no. 1, January 1978, p. 13-20.

New Members

Jo Anne DeGraffenreid
Research Assistant, Geologic Research Section
Kansas Geological Survey
1930 Avenue "A," Campus West
Lawrence, Kansas 66044

Joanne Groenewold
Library technician, University of North Dakota School of
Engineering and Mines
University Station
Grand Forks, North Dakota 58202

Jeanne Koerner-Moore
Geologist, Ernest K. Lehmann & Associates, Inc.
1409 Willow Street, Suite 300
Minneapolis, Minnesota 55403

Jennie McKee Laursen
Graduate student, University of Oregon, Eugene (MLS
expected in 1978)
2190-14 Patterson Street
Eugene, Oregon 97405

Donald H. Owens
Contracting Officer, Battelle Memorial Institute
Columbus Laboratories
505 King Avenue
Columbus, Ohio 43201

Positions Open

GEOLOGY LIBRARIAN. Head of 30,000 volume departmental library in geology. Responsible for reference, collection development, liaison with faculty and central library, and supervision of library operations. MLS plus two years related experience required. Subject degree in geology preferred. Minimum salary \$12,000. Send résumé by April 1, 1978 to Joseph Jerz, Assistant University Librarian, University of North Carolina, Chapel Hill 27514. An Equal Opportunity/Affirmative Action Employer.

HEAD, AGRICULTURE LIBRARY. *Required:*

ALA-accredited Master's degree. Five years of appropriate professional library experience. *Preferred:* second Master's in agriculture or related field.

Responsibilities: Administration of the Agriculture Library, which involves the planning, organizing, staffing, directing and controlling of activities of a library containing over 55,000 volumes for the College of Agriculture. Includes reference service, instruction, and collection development. *Salary and Rank:* \$14,280 - \$16,920 with salary and rank dependent upon qualifications. Faculty are expected to meet University tenure and promotion requirements for research, service and publication. Apply by April 1, 1978 to Ms. Neosha Mackey, Personnel Librarian, The Ohio State University Libraries, 1858 Neil Avenue Mall, Columbus, Ohio 43210. An Affirmative Action and Equal Opportunity Employer. Qualified minority and women candidates, as well as male candidates, are encouraged to apply.

1978 GIS Officers

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

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

VICE-PRESIDENT and PRESIDENT-ELECT: Julie H. Bichteler, Graduate School of Library Science, The University of Texas at Austin, Box 7576, University Station, Austin Texas 78712 (512/471-3821)

SECRETARY: Elizabeth Behrendt, U. S. Geological Survey Library, Stop 914, Box 25046 Denver Federal Center, Denver, Colo. 80225 (303/234-4133 (FTS and commercial); home 303/279-5759)

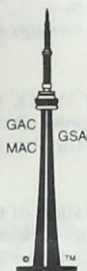
TREASURER: Robert A. Bier, Jr., U. S. Geological Survey Library, National Center - Mail stop 950, 12201 Sunrise Valley Drive, Reston, Virginia 22092 (FTS: 703/928-6671; commercial: 703/860-6671)

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.

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



Toronto'78

FIRST ANNOUNCEMENT – 1978 Joint Annual Meeting



The Geological Society of America



The Geological Association of Canada



The Mineralogical Association of Canada

TORONTO, CANADA

OCTOBER 23-26, 1978

Toronto, named after a Huron Indian word which means a 'place of meeting', will host a unique gathering in 1978, the October 23-26 joint annual meeting of the Geological Society of America, the Geological Association of Canada and the Mineralogical Association of Canada. Its skyline dominated by the soaring CN Tower, the world's tallest free-standing structure and the logo for this meeting, Toronto has changed from the rather dowdy provincial capital it was some years ago to today's thriving metropolis. Yet still it is known as a 'people city'.

Headquarters for this important international meeting of geoscientists will be the Royal York Hotel. Events will be held there and at the Sheraton Centre Hotel, a 10-minute walk away.

Toronto's location allows a wide variety of field trips to be planned, to suit every interest.

Serving as general chairman for the 1978 meeting is Paul M. Kavanagh, Toronto '78, P.O. Box 4170, Postal Station 'A', Toronto, Ontario, Canada M5W 1T2, telephone (416) 367-4211.

Social events will include the welcoming party on Sunday, October 22, in the majestic rotunda of the Royal Ontario Museum; the annual GSA banquet on Tuesday, October 24; and a special Canada Night on Wednesday, October 25, at the 'please touch the exhibits' Ontario Science Centre. Dinner, dancing and entertainment will round out this evening visit to the Science Centre's displays.

• **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, which will appear in the GSA's July "News and Information", and will be distributed to GAC and MAC members.

• **HOUSING.** Room rates will begin at \$35 for singles and \$45 for doubles (Canadian funds). Low-cost accommodation is being arranged for students. Accommodation forms will be found with the second announcement.

• **TECHNICAL PROGRAM.** The technical sessions will consist of symposia and of volunteered papers presented both orally and in poster sessions. Up to 10 concurrent sessions will be held in the Royal York (headquarters) Hotel and the Sheraton Centre Hotel, a 10-minute walk from the Royal York. Chairman of the Joint Technical Program Committee is J. Jeffrey Fawcett (University of Toronto, phone: 416-978-4852). Speakers in the regular technical sessions will be allotted a total of 15 minutes and will be expected to leave time for questions and discussion at the end of their presentation. Projection facilities will consist of a single 35 mm projector in each room. Dual projectors will not be available. We urge authors to consider using the less formal poster sessions as we anticipate a higher than normal rejection rate of papers submitted for oral presentation (due to the international nature of the meeting). Poster booths will have tackboards but no tables or projection facilities. A 'no smoking' policy has been adopted for all technical sessions.

Abstracts for the technical sessions should be submitted on an abstract form available from the GSA Abstracts Secretary (Boulder) or from Toronto '78, P.O. Box 4170, Postal Station A, Toronto, Ontario, Canada, M5W 1T2. PLEASE NOTE: THERE WILL BE NO ABSTRACT SUBMISSION FEE AT THIS MEETING. 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, excluding symposia, no one may be senior author of more than one abstract or be co-author of more than two. *Deadline for receipt of abstracts at GSA Headquarters or in Toronto will be June 1, 1978.* Mail abstracts to either Abstracts Secretary, Geological Society of America, 3300 Penrose Place, Boulder, Colorado 80301, or to Toronto '78, P.O. Box 4170, Postal Station A, Toronto, Ontario, Canada M5W 1T2.

• SYMPOSIA: TITLES, SPONSORS, ORGANIZERS

1. *The Superior Geotraverse Project; Integrated Studies of Archean Crust in Western Superior Province of the Canadian Shield:* Geological Association of Canada; A. M. Goodwin.
2. *Atmospheric Chemistry:* Geochemical Society and Mineralogical Association of Canada; J. Kramer.
3. *Environmental Geochemistry of Radionuclides:* Environmental Earth Sciences Division, Geological Association of Canada, Mineralogical Association of Canada, and Geochemical Society; R. E. Jackson.
4. *Fossils and Shales:* Paleontology Society and Society of Economic Paleontologists and Mineralogists; F. W. Beales and John Cise.
5. *Analytical Studies in Structure Geology:* Structural Geology Division, Geological Association of Canada; W. M. Schwerdtner and J. Dixon.
6. *Global Recognition of Messinian (Late Miocene) Events:* U.S. Working Group, IGCP Project 96; R. C. Wright.
7. *Limits of Wisconsin Glaciation in E. and N. Canada:* Geological Association of Canada and Quaternary Geology and Geomorphology Division, GSA; I. Brooke.
8. *Geochemical Models in Groundwater Evolution:* Hydrogeology Division, GSA, and Geochemical Society; John Cherry.
9. *Zonal Boundary and Speciation:* Paleontology Division, Geological Association of Canada; R. Ludvigsen and Barnard Mamet.
10. *Vertebrate Paleontology; Cenozoic History in and around the Northern Atlantic and Arctic Oceans:* Society of Vertebrate Paleontologists and Paleontology Society; Mary Dawson.
11. *Geological Information – Problems in Transfer from Scientist to Policy Maker:* GSA Committee on Environmental and Public Policy; N. Rutter.
12. *Dispersion in Groundwater Flow Systems:* Environmental Earth Sciences Division, Geological Association of Canada, and Hydrogeology Division, GSA; John Cherry.
13. *Metamorphic Field Petrology:* Mineralogical Society of America and Mineralogical Association of Canada; H. J. Greenwood and J. B. Thompson.
14. *Explosive Volcanism in Island Arcs:* S. Sparks.
15. *Serpentine Mineralogy and Petrology:* Mineralogical Association of Canada; Fred Wicks.
16. *Comparative Planetary Evolution: Implications for the Protoarchean:* R. A. F. Grieve.
17. *Remote Sensing:* Murray Felsher.

18. *Future Directions of Research in Mineral Deposits*: U.S. National Committee for Geochemistry, Geophysics Committee of the U.S. National Research Council and Society of Economic Geologists; Paul Barton.

19. *Robinson Symposium on Precambrian Sulfide Deposits*: Geological Association of Canada; P. M. Kavanagh.

20. *Geophysical Methods as Applied to Coal Exploration and Mining*: Coal Division, GSA; Lyle Sendlein.

21. *Geological Applications to the Study of Archaeology*: Archaeology Geology Division, GSA; J. C. Kraft.

22. *Forum: Radioactive Waste Disposal - Options for Canada*: Canadian Geoscience Council; H. R. Wynne-Edwards.

23. *Geoscience Information*: Geoscience Information Society; R. Walker.

24. *Applications of Petrologic Information Systems to Geological Problems*; F. Mutschler.

25. *Geology and Space Beneath Cities*: Engineering Geology Division, GSA; A. W. Hatheway.

26. *Thermal and Pyrolytic Studies for Characterization of Geologic Organic Substances*: Organic Geochemistry Division, Geochemical Society; W. L. Orr.

27. *Ecology of Living Foraminifera*; Cushman Foundation; M. A. Buzas and J. H. Lipps.

28. *Geologic Field Station Programs: Industries and Academics Look into the Future*: National Association of Geology Teachers; R. W. Ridky.

• **SYMPOSIUM ON NICKEL SULFIDE AND PT GROUP ELEMENT ORES.** This symposium, sponsored by the Mineralogical Association of Canada, will be held on October 21-22 immediately prior to the GSA-GAC-MAC annual meeting. The two days will be devoted to four main topics: Host rocks, Ni-Cu ores, Pt group ores, and theoretical aspects. A series of invited international speakers will participate. The symposium will be held in the Medical Sciences Auditorium of the University of Toronto. A \$20 registration fee will be charged.

• SPECIAL COURSES

Mineralogical Association of Canada - Short Course: Uranium Deposits; Their Mineralogy and Origin. At the University of Toronto. Organizers: M. M. Kimberley, R. Morton and V. Ruzicka. October 27, 28, 29.

Mineralogical Society of America - Short Course (Pre-meeting): Orthosilicates. Organizer: P. H. Ribbe.

• FIELD TRIPS

1. Stratigraphy and economic geology of the Elliot Lake uranium mining area, October 19-22.
2. Volcanic stratigraphy and geochemistry in the Timmins mining area, October 19-22.
3. The English River Subprovince, Northwestern Ontario: an Archean gneissic belt - its characteristics and associated mineral deposits, October 19-22.
4. Mineral deposits and metallogeny of Archean and Proterozoic rocks in the Superior and Southern Provinces of the Canadian Shield, Northwestern Quebec and Northeastern Ontario, October 14-22.
5. Geology of the Greater Toronto region, October 22.
6. Archeological sites - Pittsburgh to Toronto, October 21-22.
7. Volcanology and mineral deposits of the Uchi-Confederation Lakes area, Northwestern Ontario, October 19-22.
8. Geology of the Grenville Front tectonic zone in Ontario, October 20-22.
9. Geology and engineering phenomena of the Champlain Sea clays, Ottawa-Hull area, October 21-22.
10. Nepheline-bearing rocks of the Haliburton-Bancroft area, October 20-22.
11. Middle Wisconsinan stratigraphy of Southern Ontario, October 21-22.
12. Geological overview: Canadian Shield and Paleozoic Lowlands, South-Central Ontario, October 26-27.
13. Hydrogeology and subsurface waste disposal in the Toronto region, October 27.
14. Airborne tour of the geomorphology and urban geology of the Western Lake Ontario drainage basin, during meeting.
15. Structural geology and lithology of the Muskoka-Georgian Bay region, October 26-29.
16. Glacial geology of the Toronto-Georgian Bay area, October 27-28.
17. General geology of the Sudbury mining area, October 26-29.
18. Silurian stratigraphy of the Niagara Escarpment, Niagara Falls to the Bruce Peninsula, October 26-28.
19. Archean komatiitic, tholeiitic, calc-alkalic and alkalic volcanic sequences in the Kirkland Lake area, October 26-29.

20. Royal Ontario Museum, during meeting.

21. Engineering geology and nuclear power plants, October 26.

22. Metamorphic petrology in the Whetstone Lake-Kaladar-Fernleigh area, October 26-29.

23. The Kidd Creek mine, Timmins, October 26-27.

For further field trip information contact W. O. Mackasey, Toronto '78, P.O. Box 4170, Postal Station A, Toronto, Ontario, Canada, M5W 1T2 (phone: 416-965-7046). It should be noted the present schedule is subject to change.

• **GUEST ACTIVITIES.** The Women's Association of the Mining Industry of Canada has planned an exciting and varied program. Arrive early and visit Niagara Falls on Sunday, October 22; or, that same day, you might like to tour Toronto's highlights. Both tours will be repeated during the week.

Other plans include an opportunity to see the Henry Moore Sculpture Centre at the recently expanded Art Gallery of Ontario; lunch at a restaurant housing the world's largest collection of Tiffany lamps; a visit to nearby Kleinburg to view the McMichael collection of native Indian and Eskimo craftsmanship and Group of Seven paintings, the signature art of early 20th century Canada; a guided tour of the Royal Ontario Museum's world-famous collection of Chinese 'objets d'art' and a meeting with an outstanding authority on contemporary China.

Another highlight will be a special lecture from world-renowned geologist and geophysicist, J. Tuzo Wilson, director-general of the Ontario Science Centre.

• **GROUP ACTIVITIES.** In order to assign rooms for meetings, breakfasts, luncheons, dinners and cocktail parties, space assignment questionnaires will be sent to those who used space at the 1976 GSA, GAC and MAC annual meetings. Those who do not receive a form and wish to reserve space should write to the Annual Meeting Secretary, Geological Society of America, 3300 Penrose Place, Boulder, Colorado 80301, or General Chairman, Toronto '78, P.O. Box 4170, Postal Station 'A', Toronto, Ontario, Canada M5W 1T2. Deadline for reserving space is April 15, 1978. No official space assignments will be made after that date.

• **SCIENCE THEATER.** The Science Theater will provide registrants with an opportunity to view, during technical session hours, an absorbing program of Canadian films of geological interest.

• **EXHIBITS.** Exhibit space will be available in the Sheraton Centre Hotel. Companies, organizations and universities interested in exhibiting should write or call Fred Handy, Annual Meeting Manager, Geological Society of America, 3300 Penrose Place, Boulder, Colorado 80301 (phone: 303-447-2020); or Steven Scott, Toronto '78, P.O. Box 4170, Postal Station 'A', Toronto, Ontario, Canada M5W 1T2 (phone: 416-978-5424).

• **EMPLOYMENT INTERVIEWS.** The Geological Society of America holds an annual employment interview service during its annual meeting each fall. Interview booths are provided for employers to conduct interviews at the meeting. Staff is available to help with scheduling of the interviews. Application forms will appear in the June issue of the GSA's "News and Information". For further information about this service please contact Charlene Bicknell or Jill Couchman, Geological Society of America, 3300 Penrose Place, Boulder, Colorado 80301 (phone: 303-447-2020). Canadian employers and job applicants are welcome to use this GSA service.

SECOND ANNOUNCEMENT. Additional information about the Toronto '78 annual meeting will appear in the GSA's July "News and Information", and will be distributed to GAC and MAC members. In addition to preregistration forms, this second announcement will contain forms for making reservations for housing, field trips, society functions and guest activities. Additional copies may be obtained from the Annual Meeting Secretary, Geological Society of America, 3300 Penrose Place, Boulder, Colorado 80301, or the General Chairman, Toronto '78, P.O. Box 4170, Postal Station 'A', Toronto, Ontario, Canada M5W 1T2.