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NOTICES

Gordon Research Conference
Co-Sponsored by the Mineralogical Society of America
Inorganic Geochemistry: Thermodynamics in Petrology
August 25-29, 1975

The Mineralogical Society of America will co-sponsor the Gordon Research Conference on Inorganic Geochemistry: Thermodynamics in Petrology, held in honor of Clark C. Stephenson, through a bequest by David R. Waldbaum.

The conference will be held in Plymouth, New Hampshire, from 25-29 August 1975. Titles of papers, authors, and registration information was published in the March-April issue of *The American Mineralogist*, volume 60, pages 346–347.

10th International Mineralogical Association Meeting
Sydney, Australia
August 16-25, 1976

The meeting comprises Section 14 of the 25 th International Geological Congress which will be held in Sydney from 16–25th August 1976. Contributions are invited for symposia on the following topics: (1) high resolution electron-microscopy of mineral structures; (2) domain structures in minerals; (3) crystal growth; (4) silica in the surficial weathering zone; (5) history and teaching of mineralogy; (6) ore microscopy in the beneficiation of minerals; (7) measurements in reflected light; (8) gem minerals and gemmology; (9) descriptive mineralogy; (10) industrial mineralogy; (11) museum collections and curating.

Those who intend to contribute papers are requested to submit an outline of the contents of the paper to the Secretary General of the IGC by 1 October 1975. The closing date for the receipt of abstracts of accepted papers will be 29 February 1976. Intending contributors should consult the second circular for the IGC now available from the Secretary General, 25th International Geological Congress, P.O. Box 1892, Canberra City, A.C.T. 2601, Australia.

There will be a 10 day PRE-CONGRESS EXCURSION to mineral collecting localities in the Flinders Ranges of South Australia and the Broken Hill district of New South Wales. Further information on this excursion is available from Dr J. McAndrew, CSIRO Division of Mineralogy, P.O. Box 136, North Ryde, N.S.W. 2113, Australia.

Sixth Underwater Mining Institute

The University of Wisconsin Sea Grant College program, in cooperation with the American Institute of Mining Engineers, will sponsor the **Sixth Underwater Mining Institute** October 2 and 3, 1975, on the main campus of the University of Wisconsin, Madison.

The program will include such topics as: minor metals of economic interest in ferromanganese nodules; mining seafloor phosphorite deposits; new U.S. regulations for outer continental shelf mining; profits in nodule mining: the corporate approach; advances in ferromanganese nodule research; sources of risk and venture capital for underwater mining; new geophysical systems for locating seafloor mineral deposits; exploration of marine placers: gold, platinum, and tin; economic processing of marine deposits. A special tour of the Underwater Minerals Program Laboratory and other University minerals facilities will be arranged.

Those wishing a copy of the program, including topics and speakers, should write: Dr. Gregory D. Hedden, Program Coordinator, Sea Grant Advisory Services, University of Wisconsin, 610 Langdon Street, Madison, WI 53706; phone 608/262-0645.

Association of Exploration Geochemists

A regional meeting of the Association of Exploration Geochemists will be held at Fredericton, New Brunswick, Canada in 1976 from April 22–25.

"Exploration Geochemistry in the Appalachians" will be the subject of the meeting. Field excursions are being arranged for April 24 and 25.

Details are available from Professor G. J. Govett, Department of Geology, University of New Brunswick, Fredericton, N.B. The deadline for synopses of papers is November 10, 1975.

Educational Modules for Materials Science and Engineering

A new program funded by NSF will enable the materials community to create teaching aids for a novel approach to materials science and engineering education. The program, called Educational Modules for Materials Science and Engineering (EMMSE), has two major goals characterized as the JOURNAL and INDEX. It is administered at The Pennsylvania State University, but the program will depend for its success on the cooperation of metallurgists, ceramists, polymer scientists, and the large group of scientists and engineers actively interested in materials science and engineering.

The JOURNAL aspect will seek to involve the entire materials science and engineering community, including both universities and industries, in an effort to develop a variety of innovative instructional materials for higher education. Primary emphasis will be on the preparation and dissemination of print modules of about one semester hour in length. These are to be written by selected authors within the context of a carefully evolved curricular matrix. These modules will be analogous to a collection of building blocks from which custom-made courses can be constructed with great flexibility for either traditional or self-paced individualized instruction. They will be useful in small colleges, major universities, and in industrial continuing education programs.

The INDEX effort will consist of the identification, classification, evaluation and, in some cases, modification of all kinds of media (print, films, audio and video tape, *etc*) both to provide closely integrated support for the new print modules and also to make available supplementary and enrichment materials for general use by teachers. The INDEX will appear in print form (catalogued by media type) and also will be computer programmed for easy access.

An Advisory Committee includes representatives from academic, industrial, and professional areas and from the major categories of materials research and development. Morris Fine of Northwestern is Chairman. Members are Alan Chynoweth, Bell Labs; Robert Davis, North Carolina State University; Roderick Grant, Denison University; Edward Langer, American Society of Metals; Marc Richman, Brown University; Rustum Roy, The Pennsylvania State University; Frank Starr, DuPont; Sanford Sternstein, Rensselaer Polytechnic Institute, and Jack Westbrook, General Electric. Professor Rustum Roy of Penn State is Project Director.

A survey is now being made to find and catalog all existing nontraditional teaching materials in the field. Materials science and engineering educators are also being asked to report on their present use of such nontraditional materials (print modules, films, video and audio tapes, slides, *etc*). Subsequently, participants will be invited to review, test, and write print modules and other instructional materials which will emerge from the EMMSE program.

EMMSE is anxious to have as large and broad an input as possible for this survey and the production effort to follow over the next several years. Inquiries from interested persons in government, industrial and educational institutions, and professional societies are invited. Write to Clifford A. Hewitt, EMMSE Coordinator, Materials Research Laboratory, The Pennsylvania State University, University Park, PA 16802.

Back Copies of The American Mineralogist Available

For purchase:
volumes **12** (1927) through **57** (1972), bound
(volumes **50–57** bound in 2 parts)
volumes **58** and **59** (1973–74), unbound
Indices at ends of volumes **20, 30, 40, 50,** unbound
All in good condition, many substantially new.

Write:
Dr. Martin J. Buerger
Weston Road
Lincoln, Massachusetts 01773

The U.S. National Mineral Collection

The mineral collections of the National Museum of Natural History, Smithsonian Institution, among the largest in the world, are readily available to, and used by, the scientific community.

The museum maintains, in addition to the National study and exhibit collections, a repository for *type* and *described* mineral specimens, *i.e.*, those from which data have been gathered, and usually published. The *type* collection presently contains over 500 mineral species and the number of *described* mineral specimens presently exceeds 4700 specimens.

Preservation of the minerals for which analytical data of any form exist is a concern of all of us, for the data are far less significant when they cannot be verified, amended, or enhanced by subsequent, perhaps more sophisticated, studies. For the betterment of mineralogy, minerals described in published papers should not be deposited in drawers or cabinets by the authors and subsequently forgotten. Just as it is important to publish our research and disseminate knowledge, so also is it important to see to it that the specimens involved are preserved. Thus, authors are strongly encouraged to send all analyzed or otherwise described mineral specimens to the Division of Mineralogy, National Museum of Natural History, Smithsonian Institution, Washington, D.C. 20560. Acknowledgement of receipt will be by letter, and the specimens will be carefully curated. Postage franks are available upon request. In turn, the museum will continue to do its best to furnish research materials to the scientist upon written request.

We ask you, the responsible research mineralogist, to help us build the U.S. National Mineral Collection for the generations who will follow us. A photocopy of this page in a prominent place will be a helpful reminder. Thank you.

PETE J. DUNN
Smithsonian Institution

New Methods and Techniques in Neutron Diffraction

August 5–6, 1975

At the request of the Neutron Diffraction Commission of the International Union of Crystallography and under their auspices, Reactor Centrum Nederland will organize a conference on "New Methods and Techniques in Neutron Diffraction" to be held the two days preceding the Xth International Congress of Crystallography, in August 1975.

The conference will be held on August 5 and 6, 1975 at the research center of RCN in Petten, which is located on the North Sea coast, about 50 km north of Amsterdam.

For information, write W. Kraak, Neutron Diffraction Conference, Reactor Centrum Nederland, Petten (NH), the Netherlands.

1975 Meetings

July

9–11 Symposium on Autoradiography, Royal Microscopical Society, University of Edinburgh

16–23 International Clay Conference, Mexico City (*Am. Mineral.* **59,** 882)

21–25 Gordon Research Conference, Ion Exchange, Brewster Academy, Wolfeboro, New Hampshire

28–Aug. 1 Gordon Research Conference, Chemistry and Physics of Solids, Holderness School, Plymouth, New Hampshire

August

4–8 Gordon Research Conferences: Chemical Oceanography, Holderness School, Plymouth, N.H.; Solid State Studies in Ceramics, Brewster Academy, Wolfeboro, N.H.

5–6 Neutron Diffraction Conference, Petten, the Netherlands

7–15 10th International Congress of Crystallography, Amsterdam

25–29 Gordon Research Conferences: Inorganic Geochemistry, Holderness School, Plymouth, N.H. (*Am. Mineral.* **60,** 346); Chemistry of Molten Salts, Brewster Academy, Wolfeboro, N.H.

September

11–12 Symposium on Microscopy and Image Analysis, Royal Microscopical Society, University of Leicester

22–24 Science of Ceramics, 8th International Conference, St. Johns College, Cambridge

30 Synopses of papers for 25th International Geological Congress due.

October

2–3 6th Underwater Mining Institute, Madison, Wisconsin (*Am. Mineral.* **60,** 494).

5–10 International Symposium on Geothermometry and Geobarometry, Pennsylvania State University (*Am. Mineral.* **60,** 347)

20–22 Mineralogical Society of America, Geological Society of America, Salt Lake City

November

6 Mineralogical Society General Meeting, London

7 Clay Minerals Group, Mineralogical Society, London

16–19 Association of Earth Science Editors, Hershey, Pennsylvania