

## NOTICES

### **Second International Symposium on Hydrothermal Reactions August 12-14, 1985**

The Second International Symposium on Hydrothermal Reactions, including applications in geochemistry, crystal growth, hydrometallurgy, and materials synthesis based on the physical chemistry of high pressure and temperature aqueous and related systems will be held at The Pennsylvania State University, Keller Conference Center, University Park, PA 16802 on August 12-14, 1985. For further information, contact either co-chairmen: H. L. Barnes, The Pennsylvania State University and R. A. Laudise, A.T.&T. Bell Laboratories.

#### **Set 34 of the Powder Diffraction File**

This year, the Powder Diffraction File features Set 34 which contains 1,500 inorganic patterns and 500 organic and organometallic patterns.

The complete Powder Diffraction File, used as the standard reference source for powder diffraction analysis, consists of 34 sets of data containing over 44,000 numeric patterns of crystalline materials.

Each set of data is divided into an inorganic section, consisting of inorganic compounds, metals, alloys and minerals, and an organic section consisting of organic and organic-metallic compounds. Powder patterns for materials are easily located in the File by the use of Search Manuals in which the eight strongest lines with relative intensities are listed and the three most intense permuted. Reference is made to a corresponding data card. The File is available in Card Form, Microfiche, Magnetic Tape and APD Disk. Subfiles for Minerals and Metals/Alloys are also available.

#### **Applications of Electron Microscopy in the Earth Sciences May 13-14, 1985**

A short course sponsored by the Mineralogical Association of Canada to be held immediately prior to the 1985 Joint Annual Meeting of the Geological and Mineralogical Associations of Canada. The program will concentrate on transmission electron microscopy, but will include reviews of scanning electron microscopy and associated microanalytical techniques. Program: Instrumentation and Principles of Contrast in TME—A.C. McLaren, Monash University; Interpretation of Electron Diffraction Patterns and Weak Beam Techniques—D.L. Kohlstedt, Cornell University; Exsolution in Minerals—J.N. Boland, University of Utrecht; High Resolution Transmission Electron Microscopy—D.R. Veblen, Johns Hopkins University; Deformation-Induced Defect Structures—S.H. White, Imperial College, London; Review of Instrumentation, Techniques and Applications of SEM in Mineralogy—G.E. Lloyd, University of

Birmingham; Quantitative Energy Dispersive Microanalysis—W.H. Chauvin, University of Western Ontario. Registration: \$225.00. Student Registration (Limited): \$125.00. For further information contact:

Dr. J. C. White, Department of Geology  
University of New Brunswick  
P.O. Box 4400  
Fredericton, New Brunswick  
Canada E3B 5A3

#### **Mineralogical Abstracts**

Volunteer abstractors are needed for assignments. Especially critical is Soviet Physics Crystallography which is available in English translation in some libraries.

K. A. Riggs  
Organizer for America  
Mineralogical Abstracts  
P.O. Box KR  
Mississippi State University  
Mississippi State, MS 39762  
(601) 325-3915

#### **Applied Mineralogy in Science and Technology May 14-17, 1985**

Symposium to be held at the combined Geological and Mineralogical Associations of Canada (GAC/MAC) Convention at the University of New Brunswick, Fredericton, May 14-17, 1985.

Applied Mineralogy, the use of mineralogical information to explain and to understand physical and chemical phenomena and processes, is important in many areas of technical endeavor: agriculture, archaeology, civil and chemical engineering, forensic investigations, fuel science, geology, health, material science, medicine, metallurgy, mineral exploration, and processing, etc.

Papers are invited which will show the role of applied mineralogy in solving scientific and technical problems in various industrial and other fields of activity.

Contributors are invited to submit titles as soon as possible. An abstract will be needed by December 1984 and a final draft of the paper prior to March 31, 1985 for inclusion in a symposium publication.

D. Abbott, Convenor  
Applied Mineralogy Symposium GAC/MAC 1985  
Research and Productivity Council  
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Fredericton, N.B. E3B 5H1 Canada