

**SOLID STATE CHEMISTRY.** Edited by R. S. Roth and S. J. Schneider, Jr. Institute for Materials Research, National Bureau of Standards, Washington, D. C., 20234. 1972. xv + 783 pages. \$7.50.

This book presents the proceedings of the Fifth Materials Research Symposium on Solid State Chemistry held in October, 1971, at the National Bureau of Standards in Gaithersburg, Maryland. The book is divided into four sections: I. Oxides (37 papers), II. Borides, Carbides, Silicides and Related Materials (10 papers), III. Chalcogenides (12 papers), and IV. Open Discussion (4 impromptu lectures on nonstoichiometry). A list of participants as well as author and subject indexes is included. Edited versions of the floor discussions are included with most of the papers.

A wide range of topics including crystal chemistry, single crystal X-ray structures, phase systems, electron diffraction, defect structures, crystal synthesis, order-disorder relations, solid solubility, magnetic properties, *etc.*, was covered in this

symposium. In fact, the major weakness of this volume is in the broad spectrum of topics covered, resulting in a lack of continuity between papers. (Some readers may be irritated by the omission of a few papers because the authors did not meet the necessary deadline. Only brief abstracts are included for these.)

Although most of the papers deal with synthetic compounds, some of the information is applicable to topics of the geologically-oriented mineralogist. Among these are papers on phase changes in  $\text{Cu}_2\text{S}$ , the Cu-Fe-S system, *etc.*

The preface to this volume states, "The purpose of this conference was to explore the realm of new inorganic materials, emphasizing crystal-chemical and structural aspects, thus providing a forum for discussion of new research problems and techniques." This goal appears to have been well met by this symposium.

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## NOTICES

### International Symposium: Pore Structure and Properties of Materials

An International Symposium on Pore Structure and Properties of Materials will be held in Prague, Czechoslovakia, September 18–21, 1973. The Symposium is jointly sponsored by RILEM (Bureau of the International Union of Testing and Research Laboratories for Materials and Structures) and IUPAC (International Union of Pure and Applied Chemistry).

Topics to be covered include (1) Pore structure: models and geometry of pore structure, methods of determination (adsorption, diffusion, permeametry, mercury penetration,

microscopy, *etc.*); (2) Relations between pore structure and properties of materials: mechanical (strength, deformation behavior, *etc.*) and physical (mass and heat transport, accompanied by chemical reaction, acoustic properties, problems of durability, *etc.*).

Correspondence relating to the Symposium should be addressed to: Technical University of Prague, Building Research Institute, Symposium RILEM/IUPAC 1973—Ing. S. Modrý, Solinova 7, Prague 6, Dejvice, Czechoslovakia.

### Nominations for Awards, Honors and Elected Officers of MSA

Members of the Society are urged to take an active part in making nominations for the awards of the Society. Nominations with adequate documentation should be sent to the Secretary no later than June 1 for transmittal to the appropriate Committee. The nominator must be a member of the Society; the nominator's name will be withheld from the Committee. The various awards are as follows.

1. The ROEBLING MEDAL is the highest award of the Mineralogical Society of America for scientific eminence as represented primarily by scientific publication of outstanding original research in mineralogy. The science of mineralogy is defined broadly for purposes of the Roebling Award, and a candidate need not qualify as a mineralogist; rather his published research should be related to the mineralogical sciences and should make some outstanding contribution to them. Service to mineralogy, teaching, and administrative accomplishment are not to be considered as a primary merit for the award. The award is not restricted to Americans. Nationality, personality, age of the candidate, or place of employment shall not be considered.

2. The MINERALOGICAL SOCIETY OF AMERICA AWARD is given in recognition of an outstanding contribution within the fields of interest of the Society. The work for which the award is given must be published in a single paper or series of papers prior to the month in which the candidate's 35th birthday falls. Candidates are limited to persons who shall not have reached the age of 37 before January 1 of the year in which the award is decided upon (1973). The Award shall be made without regard to nationality, personality, or place of employment. Membership in the Mineralogical Society of America or publication in *The American Mineralogist* is not prerequisite.

3. FELLOWSHIP nominations are invited and forms may be obtained from the Secretary. Three members of the Society must sponsor each nominee.

4. Suggestions for nominations for all offices of the Society are welcome; documentation need not be as extensive as for the awards.

Joan R. Clark, Secretary