

## Notes and News

*Announcements and other items of crystallographic interest will be published under this heading at the discretion of the Editorial Board. The notes (in duplicate) should be sent to the Executive Secretary of the International Union of Crystallography (J. N. King, International Union of Crystallography, 13 White Friars, Chester CH1 1NZ, England).*

### International Symposium on Physics and Chemistry of Ice

**Ottawa, Canada, 14-18 August 1972**

This symposium, which is being sponsored by the Royal Society of Canada, will emphasize the fundamental physics and chemistry of ice in all its phases including the clathrate hydrates. The symposium follows earlier ones which were held at Erlenbach in 1962 and Munich in 1968. Copies of the *First Circular* and further details may be obtained from Mr M. K. Ward, Executive Secretary, International Symposium on the Physics and Chemistry of Ice, c/o National Research Council of Canada, Ottawa 7, Canada.

### International Colloquium on the Study of Crystalline Transformations at High Temperatures

**Odeillo, France. 27 September - 1 October 1971**

This is one of several international colloquia of the Centre National de la Recherche Scientifique, which are devoted to well-defined topics and are attended by a limited number of specialists. This colloquium will deal with the different methods (X-ray and neutron diffraction, microscopy, thermal analysis and other physical or physico-chemical methods) available to give evidence of or to determine the nature of these crystalline transformations or to study phase changes and phase diagrams at high temperatures. The results obtained by these methods at temperatures above 1700°C will be considered for metals, oxides, carbides or other refractory elements or compounds.

Further details are obtainable from: Professor M. Foex, Laboratoire des Ultra Réfractaires, B.P.5, 66 Odeillo, France.

### Third Thermal Expansion Symposium

**Corning, New York, U.S.A., 27-29 October 1971**

This meeting, which is sponsored jointly by the Department of Physics, University of Toronto, and the Corning

Glass Works, will provide the opportunity to exchange new ideas and techniques in fundamental and applied studies of thermal expansion. Contributed papers are solicited on basic experimental and theoretical studies of thermal expansion; on the relation of thermal expansion to other properties; on the technology of low expansion and of composite materials; on studies at extremely high or low temperatures; on thermal effects in diffraction studies and on thermal expansion standards. A number of invited papers will be presented by leading scientists and engineers and an exhibition by manufacturers of thermal expansion equipment is planned. The plans for publication of the proceedings are incomplete at present.

Abstracts should be submitted, by 30 June 1970, to Dr G. M. Graham, Department of Physics, University of Toronto, Toronto, Ontario, Canada. Further information may be obtained from Mr H. E. Hagy, Corning Glass Works, Sullivan Park, Corning, New York 14830, U.S.A.

### Fedorov's *Symmetry of Crystals*

An English version of the 1890 Russian Classic, *Symmetry of Crystals* by E. S. Fedorov, has been prepared under the joint sponsorship of the American Crystallographic Association and the National Science Foundation. Translated by David and Katherine Harker, it encompasses the five monographs which together contain Fedorov's development of the principles of crystalline symmetry and his derivation of the 230 space groups. This work also embodies his complete theory of the division of three-dimensional periodic space into stereohedra, a subject not well known to scholars unable to read Russian. Many of Fedorov's analytical and mathematical methods are original and, the translators note, could be used profitably by modern workers and teachers. Published in 1971 as ACA Monograph 7, the ~325 page hard cover book is available at \$25 from the ACA, c/o Polycrystal Book Service, P.O. Box 11567, Pittsburgh, Pennsylvania 15238, U.S.A. Additional information may be obtained from the ACA secretary, Dr Walter Roth, General Electric Research and Development Center, P.O. Box 8, Schenectady, New York 12301.