AMERICAN CRYSTALLOGRAPHIC ASSOCIATION TO MEET IN TOLEDO

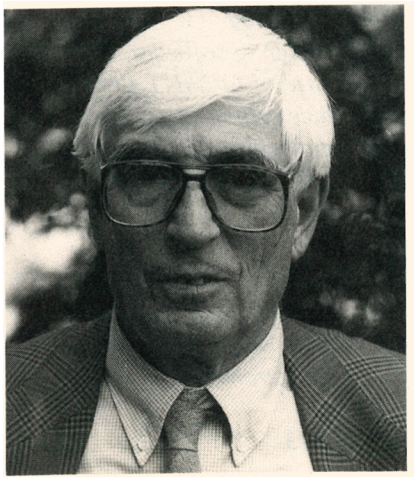
The American Crystallographic Association will hold its annual meeting from 21 to 26 July at the University of Toledo in Ohio.

A highlight of this year's meeting is the symposium on the structural chemistry of silicates. The symposium's 40 invited and contributed papers will explore a wide range of diffraction and modeling techniques used to study the structure and properties of these materials.

Superconductors will be featured in two sessions. To discuss some of the latest results on the fullerenes, also known as "buckyballs," ACA has added a special session entitled "Structures of Superconducting and Nonsuperconducting Fullerenes." The oxide superconductors will be covered in the session "Structural Chemistry of the Oxide Superconductors and Related Compounds."

Other noteworthy sessions include: "Synchrotron Radiation Research," which will cover recent results in the field as well as new techniques for use in the biological and materials sciences; and "Structure of Polymers at the Molecular Level," which will feature molecular modeling and the so-called two-dimensional Rietveld methods for refining diffraction data from oriented polymer fibers.

Jack D. Dunitz



In addition to the above, there will be sessions on: electronic submission of papers to *Acta Crystallographica C*; crystallography on highly parallel computers; structural studies of amorphous materials; future outlook for the protein data bank; programs and program packages; antibodies and their complexes; amorphous materials and quasicrystals; Rietveld analysis; thin films; accuracy in macromolecular structures; high-temperature diffraction techniques; educational tools and macromolecular structures; fiber diffraction from liquid crystalline and inorganic polymers; and molecular conformation: observations, calculations, conflicts and correlations.

A special memorial session will be held in honor of David Harker, who died on 27 February. Harker is considered one of the founding fathers of modern crystallography.

The annual workshop, "Crystallization and Crystal Growth of Proteins and Related Compounds," will be held on Sunday, 21 July. Preregistration is encouraged.

An exhibit of crystallographic equipment and products, organized by the American Institute of Physics, will be held in the university's student union auditorium. The hours are Monday, 6 pm to 8 pm; Tuesday, 9 am to 12 noon; Wednesday, 12 noon to 7 pm; and Thursday, 10 am to 3 pm.

Awards ceremony

In a ceremony on Tuesday evening in the Toledo Zoo auditorium, ACA will present its 1991 awards. Jack D. Dunitz of the Swiss Federal Institute of Technology in Zurich will receive the Martin J. Buerger Award and James D. Jorgensen of Argonne National Laboratory will receive the B. E. Warren Diffraction Physics Award.

Dunitz is being cited for his research on "a broad array of chemical systems," in which he studied "the conformational preferences and structural characteristics of medium-sized rings, particularly carbocycles and lactams." ACA also notes Dunitz's work on molecular motion and dynamics in crystals, electron density, potential-energy surfaces and chemical bonding.

Dunitz received a PhD in chemistry from the University of Glasgow in 1947. He then held research fellowships at Oxford University, Caltech, the National Institutes of Health and the Royal Institution in London. In 1957 Dunitz joined the Swiss Federal Institute of Technology, where he is a professor emeritus of chemical crystallography.

ACA is recognizing Jorgensen for his "contribution to the development of instrumentation and data analysis techniques for powder diffraction from pulsed neutron sources." Jorgensen's research includes studies of high-temperature oxide superconductors, ternary superconductors, fast ion conductors and structural phenomena under high pressure. (An article by Jorgensen begins on page 34.)

After receiving a PhD in solid state physics from Brigham Young University in 1975, Jorgensen joined the staff at Argonne. He is currently a senior physicist and group leader of the neutron and x-ray scattering group in the materials science division there. ■

James D. Jorgensen