May Biotechnology Symposium and Workshop

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New Frontiers in Synchrotron Radiation Research and Structural Biology

May 2-3, 1994
Cornell University
Ithaca, NY USA

The use of synchrotron radiation to record diffraction patterns from crystals of macromolecules has played an important role in structural biology. New advances in synchrotron radiation research promise to further enhance our capabilities for structural analysis. The symposium will highlight recent accomplishments in macromolecular crystallography using synchrotron radiation. Invited speakers will present structural results describing a variety of molecules including viruses, DNA binding proteins, enzymes and others. In addition, speakers will address future developments in synchrotron radiation including new beamlines, X-ray optics, X-ray detectors and third generation synchrotron sources. The symposium is intended for both specialists in structural biology and the general scientific community interested in structural results.

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The Program in Molecular Structure
Division of Biological Sciences
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Workshop on Synchrotron Radiation and Structural Biology: Measuring and Processing X-ray Crystallographic Data

May 3-6, 1994
Cornell University
Ithaca, NY USA

The workshop is planned as an intense three day event that is designed to familiarize the participants with all aspects of synchrotron data collection and processing as applied to macromolecular crystallography. Eight instructors will cover topics such as cryocrystallography, experimental design, X-ray detectors, data processing and data scaling. Each participant will receive hands-on training in data collection and processing. The workshop will consist of lectures, training sessions for crystal freezing and data processing, and live data collection using stations A-1 and F-1 at CHESS. Participants are encouraged to bring crystals for data collection, data sets for processing or other crystallographic problems for discussion. To ensure the effectiveness of the workshop, the number of participants will be limited to 16. The participants will be selected from the applicants in order to maximize the benefit to the crystallographic community.

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