

## Editorial

### Biological Crystallography

With this issue a new Section of *Acta Crystallographica*, one devoted to biological crystallography, is initiated. The determination of crystal structures of biological macromolecules provides a wealth of information that makes this area of crystallography highly significant, exciting, and of general interest to a wide variety of scientists. An examination of the figures in any text in biochemistry or biology will attest to the great impact of X-ray diffraction studies on these sciences. Therefore the Executive Committee of the International Union of Crystallography has considered it appropriate to initiate a new section of *Acta Crystallographica*.

The number of reports of crystal structure determinations of biological macromolecules in the various scientific journals is rapidly increasing. When P. P. Ewald founded *Acta Crystallographica* in 1948, he expressed the hope that '*Acta* will focus international discussion on problems of crystallography.' The establishment of a separate section of *Acta Crystallographica* devoted to the study of biological structures will provide such an international forum and is clearly both an appropriate and a necessary means of furthering this goal. This new section will contain full-length articles, invited reviews, short communications, fast communications and letters. It is not our intent to include articles that more properly belong in the other three sections of *Acta Crystallographica*.

This first issue consists of articles resulting from a Conference on Direct Methods of Phasing in Macromolecular Crystallography, held at Panama City Beach, Florida, in April 1992. These reports provide a glimpse into methods to be used in the future for solving the phase problem for large molecules. Later issues for this year will concentrate more on structural studies. It is hoped that the scope of this section of *Acta Crystallographica* will be of interest to biochemists, molecular biologists, pharmacologists and, of course, crystallographers.

The aim of this journal is to provide a publishing home for details of crystal structure determinations of molecules of biological interest, while at the same time maintaining high-quality refereeing and editing of articles that *Acta Crystallographica* prides itself in. The assistance of the crystallographic community with this aim is much appreciated. I am delighted that the following crystallographers have agreed to serve on the Editorial Advisory Board to Section D to assist in policy and procedural matters.

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