

**ACTA CRYSTALLOGRAPHICA D: RESPONDING TO AN
ADVANCING DISCIPLINE**

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Acta Crystallographica, Section D, devoted to all aspects of biological crystallography, has appeared monthly since 1999. The annual content has been approximately 170 research papers and 200 crystallization papers. Figures in color are provided free of charge. All authors are asked to confirm that they have seen the final manuscript. Submitted articles reflect advances in the field. Larger structures are now described in more detail and at higher resolution. Improvements are evident in crystallization protocols, methods for solving the phase problem, and refinement of macromolecular structures. A welcome component is the addition of the Proceedings of CCP4 Study Weekends, focused in 1999 on 'Data collection and processing,' in 2000 on 'Low-resolution phasing' and in 2001 on 'Molecular replacement and its relatives.' 'Crystallization papers' indicate what people are working on. The three Crystallization Co-editors are Naomi Chayen, Adriana Zagari and Marc Pusey. We are evaluating the impact of 'high throughput' macromolecular crystallography on our journal. Crystallization papers may eventually be published in an electronic subsection of Acta Crystallographica D and we are considering an electronic-only Structural Genomics subsection. We welcome Mitchell Guss as a Co-editor helping us with this. My sincere thanks to those who have served as reviewers of submitted papers, to the staff at Chester, particularly Louise Jones, and to our co-editors. In addition, I thank John Helliwell, the Editor-in-Chief, Peter Strickland and Simon Glynn in Chester, and Eileen Pytko, Amy Katz and Carol Afshar here in Philadelphia. They all serve to ensure quality in this journal.

**Keywords: ACTA CRYSTALLOGRAPHICA D BIOLOGICAL
CRYSTALLOGRAPHY JOURNAL POLICIES**

**INVESTIGATION OF THE SOLID SURFACE STRUCTURAL
INGOMOGENEITIES BY SMALL-ANGLE X-RAY SCATTERING**

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The surface ingomogeneities, i.e. submicropores (SMP), of samples obtained by high temperature vacuum sintering of Nb powder were investigated by SAXS. With the collimation process used and the radiation chosen, a resolution is achieved which allows to detect SMP with dimensions exceed the third one (lamella). The surface inhomogeneity system displays the fractal nature.

Keywords: SCATTERING, SUBMICROPORE, FRACTAL

**ACTA CRYSTALLOGRAPHICA SECTION E (STRUCTURE
REPORTS ONLINE): REPORT FOR 2001**

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This newest member of the family of IUCr journals published its first issue in January 2001. It provides a means of rapid publication for crystal structures. The whole process, from submission by authors, through checking and review, to publication, is carried out electronically, leading to very short publication times. Individual papers are made available on the web as soon as the proofs are checked and corrected. Attractive features of the journal include the use of colour for structural drawings; the publication of 'key statistics' providing readers with a simple overall assessment of the precision of data and results; the possibility of publishing results with little discussion or with extensive analysis; and the opportunity to include extensive supplementary material. Not only the published article (in PDF and hyperlinked HTML formats), but also the original CIF, the diffraction data, and the author responses to any 'checkcif' alerts, are available to readers.

The first year of operation of the journal has been an interesting one, as we have adapted to the new formats and procedures, and coped with a swelling tide of submissions (800 papers published in 2001). The journal has already received accreditation from ISI, so that it is fully covered by indexing and citation services. Author and reader services are being developed further.

**Keywords: JOURNAL, ACTA CRYSTALLOGRAPHICA,
ELECTRONIC PUBLISHING**