

**Workshop Structural Analysis of Aperiodic Crystals
on 23 August 2005 at the XX Congress of the IUCr in Florence**

The Commission on Aperiodic Crystals of the IUCr announces the Workshop **Structural Analysis of Aperiodic Crystals**, that will take place on 23 August 2005, as part of the XX Congress of the IUCr in Florence.

This workshop is intended to give an overview of the state of the art of crystallographic analysis of incommensurately modulated crystals, incommensurate composite crystals, polytypes and quasicrystals. Introductory lectures will present the basic phenomena related to aperiodic order, including diffraction and morphology, and the fundamental principles of the superspace descriptions of their crystal structures. The afternoon session will be devoted to recent developments and applications of superspace crystallography.

Topics may include: Superspace description of incommensurate structures, Superspace groups, Atomic structures of quasicrystals, Structure solution of incommensurate crystals, Physical properties of aperiodic crystals, Maximum Entropy Method, Large-amplitude modulations, Superspace description of modular compounds, Diffuse scattering of polytypes, A modulation wave approach to diffuse scattering, and others.

The program of the workshop will complement the topics of the plenary lectures and the programs of the microsymposia at the XX Congress.

Organized on behalf of the Commission on Aperiodic Crystals of the IUCr by

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