

Activity Report 2004/05 - SIG-13

ECA Special Interest Group on Molecular Structure and Chemical Properties

With no ECM to plan for in 2005, the main activity of SIG-13 has been the co-organisation of the IUCr satellite workshop (#5) on small molecule crystallisation (with SIG-7). Thanks are due to the main organisers of this meeting, Paola Gilli and Martin Schmidt. This workshop aims to cover the theory and experimental techniques for the crystallization of molecular inorganic, organic and organometallic compounds. The topics being discussed include thermodynamic and kinetic factors in nucleation and crystal growth, crystallization techniques (including non-ambient methods), in-situ crystallization of liquids and gases, co-crystallization (mixed crystals, solid solution, host-guest systems), methods for growing large single crystals, and polymorph screening. We anticipate good attendance and an interesting workshop in this important area.

We have also been active in promoting our area within the IUCr programme, and note that there are many sessions relevant to SIG-13 interests taking place in Florence. We have made a range of suggestions for sessions at ECM-24 in Leuven, and we hope to have an extensive programme at that meeting which will be of interest to those whose interests are allied to those of our SIG.

We continue to represent the interests of a large community of chemical crystallographers in ensuring the work of this "core" area in our science is adequately represented in the programmes of major crystallographic meetings.

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