

## **Commission on Electron Diffraction**

The year 2005 was significant for the relatively large number of sessions and workshops with a significant electron crystallography session. The IUCR meeting in Florence had two, one on Electron Crystallography Of Organic Crystals And Biomolecules organized by H. Hebert and U. Kolb, the other on Electron Crystallography Of Inorganic Crystals organized by J. Jansen and V. Klitschkovskaia. Immediately following the IUCR meeting a satellite conference, ElCryst2005 - New Frontiers in Electron Crystallography was held in Brussels, Belgium from the 2<sup>nd</sup> – 8<sup>th</sup> of September 2005 for which the web site is <http://www.gfe.rwth-aachen.de/sig-ec/ElCryst2005/ElCryst2005.htm>. This was attended by about 70 students and teachers, and had a strong focus on new developments in the area of precession electron diffraction. Lecture notes for the presentations are available for download, and a special issue of Ultramicroscopy focusing on electron crystallography and precession electron diffraction edited by T. Weirich and S. Nicolopoulos will appear in 2006.

There was also a significant session at the American Crystallography Association meeting in Florida, with two session on Electron Nanocrystallography organized by J-M Zuo and L. D. Marks, one with a focus on Techniques and Time-resolved Diffraction, the other on applications in Applications to Materials Science. The area of time resolved electron diffraction is continuing to make rapid advances.

In addition to the major sessions at the IUCR and ACA meetings, there was also significant discussion of aspects of electron crystallography at the Microscopy Society of America meeting in Hawaii, the Midwest Conference on Electron Microscopy at the University of Illinois and the International Workshop on Phase Retrieval and Coherent Scattering in Porquerolles among others.

Looking towards the future, the commission is interested in expanding its activities. The membership of the commission has been increased with the inclusion of new consultants to provide additional expertise in both established areas such as surface electron crystallography, as well as newly developing areas such as ultrafast electron diffraction. The website for the commission has also been redesigned, and additional links including a general electron crystallography software search interface are in the process of being constructed.

The commission is also active in trying to increase the number of workshops/schools on electron crystallography beyond the traditional ones in the developed nations. Three workshop are planned in 2006, one in May (<http://www.tvips.com/Workshop.html>), a second in Antwerp (<http://www.emat.ua.ac.be/XEl2006/XElhome.htm>) as a satellite of the European Crystallography Meeting, and the last is planned to occur in Bangalore, India. Three workshops/schools are currently in the planning stages for 2007, in Hong Kong, Moscow and Oxford and a session on electron crystallography at the 2007 meeting of the American Crystallography Society.

The Commission's home page is maintained by the Chair, L. D. Marks, and can be found at [http://www.numis.northwestern.edu/IUCR\\_CED](http://www.numis.northwestern.edu/IUCR_CED).

L. D. Marks, Chair