Panel 1.5: Education Past and Future

**Networked Interactive Crystallography Education: A Grassroots Approach to Remote Teaching**

A major constraint of fundamental scientific research and education in developing economies is the scarcity of supporting analytical technologies such as single crystal X-ray diffraction crystallography. Since 2011, Networked Interactive Crystallography Education (NICE), using commonly available telepresence tools, has allowed remote teaching from the University of Delaware X-ray Crystallography Laboratory (UDXCL) to University of San Carlos, Cebu City, Philippines (USC). The instructional material was adapted from an existing UDXCL course on the theory and practice of single crystal diffraction which is then attached as a modular supplement to an existing spectroscopy course taught in USC. Since implementation of the project, the UDXCL director have visited Cebu City four times using the opportunity to discuss crystallography face-to-face in a more traditional classroom setting and to provide seminar presentations on cutting edge crystallography advances. It is hoped that NICE will leverage internet connectivity to promote a more decentralized chemist-to-chemist education and research technology transfer.