## Poster Presentations

[MS10-P28] PHOTON 100 CMOS Detector for Chemical Crystallography Applications Holger Ott, Bruce C. Noll, Michael Ruf,

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When Bruker introduced their new products for single crystal X-ray diffraction, D8 QUEST and D8 VENTURE, mid of 2011, the most advanced and versatile diffractometers became available, featuring the next generation of X-ray sources and the ground-breaking PHOTON 100 active pixel sensor detector. Up to now more than 100 systems were installed and therefore vastly replaced CCD based equipment. Since the presentation of the D8 Crystallography Solutions, the whole spectra of possible single crystal applications were covered by our customers or the Bruker application laboratories, proving the superior performance of the new equipment and particularly the CMOS APS detector. Several examples of challenging applications will be presented. These include the structure determination of very weakly diffracting crystals and of tiny samples below 25 microns diameter. Furthermore data of a modulated (incommensurate and commensurate) crystal with weak high order satellites. Finally high resolution data and extremely rapid data collections.