

Micro-Computed Tomography (MCT) Beamline

Finishing touches to the MCT hutches electrical utilities were recently completed by industrial electrical contractors, who are now focusing on hutch electrical works for the MEX-1 and MEX-2 Beamlines.

The Photon Delivery System (PDS), including a Double Multilayer Monochromator (DMM), has been installed inside the new hutches.



First stand installed at upstream end of MCT first-optical enclosure



Work has commenced by getting the major MCT X-ray optical components positioned in hutch 9-BM1-A (fine alignment will be ongoing)



Far left: View looking upstream, with vertical-bounce mirror in foreground & the double-multilayer monochromator behind



Left: View looking downstream, with diagnostics & 3rd white-beam slits in foreground & photon/safety shutter system behind

MCT photon-delivery system finishes just inside hutch 9-BM1-B with a large Be window, located at approx. 20 m from the X-ray source

Medium Energy X-ray Absorption Spectroscopy (MEX-1 & MEX-2) Beamlines

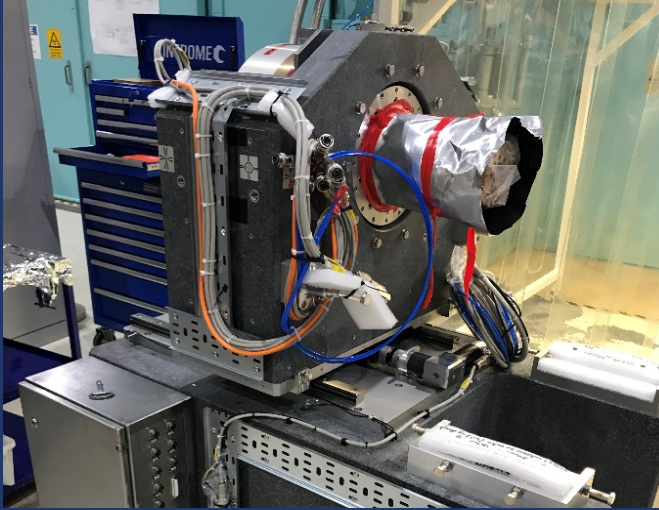
Building of the MEX Hutches and user cabin has been completed. In early June, a specialist engineer from the UK arrived to assemble MEX's Double Crystal Monochromators (DCMs).



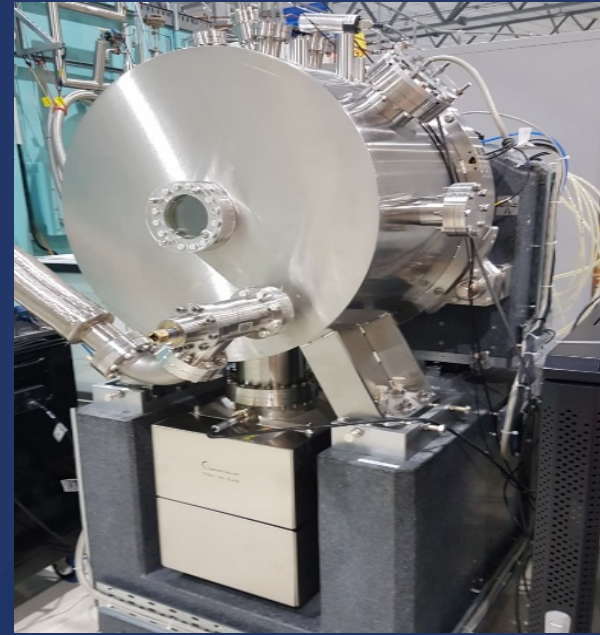
Construction of the MEX user cabins



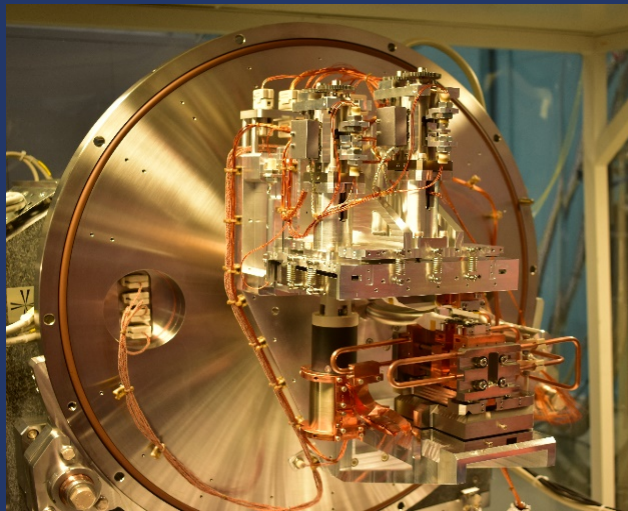
MEX-1 and MEX-2 DCMs with their covers on



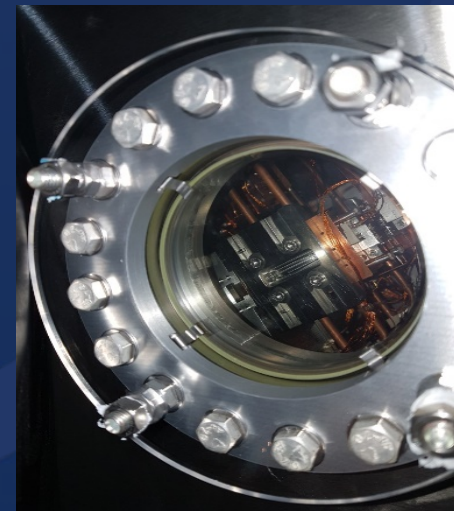
Headstone mounted on the granite base ready for the cleanroom tent to be moved over it for further assembly



Fully assembled DCM under vacuum



Partially assembled DCM in the clean room tent



Looking into the front port of the DCM under vacuum