

BRUKER APEX II CCD Diffractometer Operation Summary

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Location: 1709 Gilman Hall

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Safety

All users of BRUKER APEX II CCD Diffractometer must complete the EH&S "X-ray Safety Fundamentals" course available on-line at www.ehs.iastate.edu. The valid "X-ray Safety Fundamentals" Certificate is mandatory to enter 1709 Gilman Hall X-ray lab.

This class demonstrates the correct procedures for the authorization and use of X-ray producing devices. Topics include X-ray production and hazards, hazard control measures, and regulatory requirements. Certification is awarded upon successful completion of the quiz at the end of the course. You must recertify every year.

All diffractometer enclosures in CIF X-Ray Laboratory are checked by EH&S annually and certified for data collection operations. All systems are also equipped with multiple interlock switches blocking the X-ray shutter to avoid any possible operator exposure.

Training Requirements

Before operating diffractometer, you **MUST** be properly trained and authorized by CIF Supervisor of the X-ray lab!

This training manual includes information about the diffractometer and step-by-step instructions on sample preparation and data collection. It can be found in 1709 Gilman Hall. This manual is not available on-line, however, you can request the PDF file on CD-ROM or a printed color copy.