



DAY 1		
CHEMICAL CRYSTALLOGRAPHY		PROTEIN CRYSTALLOGRAPHY
Single Crystal XRD (Rigaku)	Powder XRD (ICDD)	Computational Crystallography Data Processing & Model Building (BRUKER)
<p>MicroED: An Overview</p> <ul style="list-style-type: none"> • Introduction to MicroED (Microcrystal Electron Diffraction) • Principles and techniques • Sample preparation for MicroED • Data collection and processing <p>OLEX2: Structural Solving (Professor Horst Puschmann)</p> <ul style="list-style-type: none"> • Introduction and Tips & Tricks with Olex2 • Disorder Modelling using Olex2 • NoSpherA2: Using non-spherical scattering factors • Identifying problems *before* a structure is submitted for publication 	<p>Part-I: Lecture</p> <ul style="list-style-type: none"> • Powder X-ray Diffraction Method and Applications • Diffraction Geometry, Systematic Angular errors and calibration procedures, specimen preparation • Introduction to profile functions, fitting and Quantitative Phase Analysis (QPA) using Rietveld method <p>Part-II: Lecture along with hands-on sessions</p> <ul style="list-style-type: none"> • PDF-5+ Database and features overview • Data mining • Phase identification methods • Qualitative and semi-quantitative (RIR) phase analysis • Advanced phase identification with amorphous components of Trace phases • JADEPro features overview • Angular Calibration (Instrument Profile Curve, IPC) • Pattern Indexing using JADE • Whole pattern fitting (WPF) and Rietveld refinement 	<p>Part-I: Lecture</p> <ul style="list-style-type: none"> • Opening & introduction • Single Crystal X-ray diffraction method & instrumentation overview • Data Collection: Tips and tricks for efficient data collection • Data Processing of synchrotron and in-house data <p>Part-II: Hands-On</p> <ul style="list-style-type: none"> • Data processing with PROTEUM, including twin recognition and handling • Summary

CrysAlisPro: Comprehensive Data Analysis

- Overview of CrysAlisPro software
- Features and integration with other tools
- Data collection strategies
- Data analysis workflow
- Optimization techniques

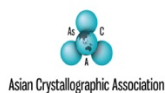
- Phase identification and Quantitative Phase Analysis (Rietveld)
- Crystallite Size and Micro-Strain Analysis (time permitting)

Instructor: Dr. Soorya Kabekkodu

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Malaysia
BE Greater, Together.

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