

XRD X-RAY POWDER DIFFRACTION CLINIC

Fundamentals of XRD I: 2 - 6 June 2025 Advanced Methods in XRD II: 9 - 13 June 2025

Techniques & Skills to Maximize Results!



FUNDAMENTALS COURSE OUTLINE

Production and properties of X-rays

Production of monochromatic X-radiation

Components of the diffraction pattern

The powder diffractometer

Acquisition of good diffraction data

Qualitative phase identification

Industrial applications of X-ray powder diffraction

Hands-on use of computers for demonstration

of the latest software

Data mining with the PDF



ADVANCED METHODS COURSE OUTLINE

Brief review of fundamentals

Factors affecting accuracy of measured 20 values

Factors affecting intensities of diffraction peaks

Use of computer methods for data reduction and

qualitative phase identification

Advanced data mining with the PDF

Exploration of powder pattern indexing methods

Quantitative analysis

Structure solution and refinement using the

Rietveld method

Please note: A minimum of 10 registrants per course is required, otherwise the course will be cancelled and your registration fee will be refunded. You will be notified of a course cancellation no later than two weeks prior to the start of the course.

See website for early registration deadlines.

ATTENDEES WILL RECEIVE THE FOLLOWING:

Selected Resources for X-ray Diffraction – a valuable online link to the compilation of software for data analysis and interpretation, and ICDD's Methods and Practices – a compendium of articles and reports relating to applications and techniques in XRD.



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