

Hands on training in powder x-ray diffraction data analysis

Time and Date: 9.30 a.m. on 16.5.2018 (Wednesday)

Venue: SAIC Building

Diffraction experiments can tell “where the atoms are and how they move”. Therefore, extraction of different parameters such as, lattice parameters, space groups, occupancies, lattice strain, thermal parameters etc. are important information to reveal the structure-property relationship.

A-day long hands-on training workshop will be conducted by SAIC for the benefit of faculty members, research scholars and masters’ students who are interested to learn and interpret powder x-ray diffraction data for different crystalline samples.

Requirements for the training:

1. A laptop should be brought.
2. **Jana2006** stable version should be downloaded from <http://jana.fzu.cz/> and installed in the system
3. **Vesta** from <http://jp-minerals.org/vesta/en/> should be downloaded and installed in the system.

Pre-requisites:

1. Basic Knowledge of crystal structures
2. Basics of Miller indices
3. Basics of crystallographic symmetry

Programme Schedule:

Lecture 1: 9.30 a.m.

Tea Break: 11 a.m.

Lecture 2: 11.30 a.m.

Lunch Time: 1-2 p.m.

Hands-on Training session: 2 - 5 p.m.

Please register yourself by sending an email to saic@tezu.ernet.in by 5 p.m. on 14.5.2018 (Monday) giving the following details:

Name and Roll No.:

Department:

Name of Supervisor:

Area of Research: