

IUCr2017 workshop

Electron Diffraction for Materials Science and Pharmaceutical Applications

ONE DAY PROGRAM

Chairman : Dr. Partha Ghosal

8:30 am – 8:45 am

Introduction about workshop and Company (NanoMEGAS)

8:45 am – 9:15 am

Basics of TEM Electron microscopy and Electron Diffraction

Prof. Joke Hadermann, Univ of Antwerp, Belgium

9:15 am - 9:45 am

Basic crystallography (SG, PG, crystal structure resolution, pole figure, stereo projection etc..)

Prof. Guru Row, Indian Institute of Science, Bangalore, India

9:45 am- 10:15 am

Electron Diffraction and its applications for material science (general talk)

Prof. Joke Hadermann, Univ of Antwerp, Belgium

10:15 am- 10:45 am

Coffee Break

Chairman : Dr. Partha P. Das

10:45 am – 11:15 am

Precession Electron Diffraction and its application for materials and pharmaceuticals

Dr. Stavros Nicolopoulos, NanoMEGAS SPRL, Belgium

11:15 am -11:45 am

Crystal structure solution of pharmaceutical compounds by X-Ray and Electron Diffraction

Dr. Hemant M Made/ Dr. Ram K R Jetti, MYLAN Laboratories, India

11.45 am - 12:15 pm

Amorphous Pharmaceutical Characterization by Synchrotron XRPD

Dr. Ruggero Frison, Excelsus Structural Solutions, Belgium

12:15 pm-12:45 pm

Combining X-ray powder and electron diffraction capabilities of the ICDD Powder Diffraction File PDF® for materials and pharmaceuticals characterization.

Dr. Thomas Blanton, ICDD, USA

12:45 pm – 13:15 pm

Orientation imaging & phase mapping for Material Science and Pharmaceuticals

Dr. Partha P. Das, NanoMEGAS SPRL, Belgium

13:15 pm -14:15 pm

Lunch

Chairman : Dr. Stavros Nicolopoulos

14:15 pm- 14:45 pm

Orientation image mapping with Precession Electron Diffraction in Ti base Alloys

Prof. Dipankar Banerjee, Indian Institute of Science, Bangalore, India

14:45 pm- 15:15 pm

Application of Precession Electron Diffraction/ Orientation Microscopy for Nano and Advanced Materials using TEM

Dr. Partha Ghosal, DMRL, India

15:15 pm - 15:45 pm

Advanced Electron diffraction solutions in TEM

Dr. Tarun Sharda, Technos Instruments, India

15:45 pm -16:30 pm

Open & round table discussion, Closing and coffee