

## **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**

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**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*

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