

Post-conference workshop, 2 days (20th – 21st July, 2017)
Location: SRI Guest House Auditorium,
Anupuram - 603127

JULY 20, 2017

Date and Time	Speaker	Lecture Title
09:00 am - 9.30 am	M Vijayalakshmi	Opening remarks
9:30 am - 10:30 am	Vinoth Kumar	3D EM History, Basic Principles and its recent advances in Electron Microscopy to obtain High Resolution structures.
10:30 am - 11:30 am	R. Natesh	TEM and cryoTEM sample preparation
11:30 am - 12:15 pm	Gregory M. Becker (sponsor talk)	Sample preparation for cryoTEM: Tools and Techniques
12:15 pm - 1:15 pm	Manidipa Banerjee	Instrumentation, Principles of TEM image formation and data collection
1:15 pm - 2:00 pm	Lunch	
2:00 pm- 3:00 pm	Somnath Dutta	Contrast Transfer Function, Point Spread Function and its effect on image acquisition, concepts of convolution
3:00 pm - 4:00 pm	Partha Dutta	MSA/PCA, Refinement of classifications, dealing with orientation and heterogeneity of particles
4:00 pm - 5:00 pm	Smarajit Polley	Generating initial model and refinement
5:00 pm - 6:00 pm	Jayati Sengupta	Macromolecular dynamics: Flexible fitting into cryo-EM maps

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10:00 am - 11:30 am	R Natesh	Density assignment, Hybrid methods: Protein Crystallography, computational methods and Cryo EM
11.30 am - 1 pm	Mekala Laxman	Basics in biological sample preparation for conventional TEM and SEM
1:00 pm - 2:00 pm	Lunch	
2:00 pm - 3.30 pm	Mekala Laxman	Application of conventional EM in the field of life sciences
3:30 pm - 4:30 pm	Pankaj Poddar	Scanning probe microscopy - basics and recent advances
4:30 pm - 5:00 pm	Arup Dasgupta	Valedictory session