

Programme (Indo-US Workshop)

Monday, 21st January, 2013	
9:10 am - 9:30 am	<i>Inaugural Session</i>
Session I <i>Chair:</i>	
9:30 am – 9:55 am	Tobin Marks Plastic solar cells with designer interfaces
9:55 am – 10:20 am	Sridhar Rajaram Perylene diimides as alternatives for PCBM in organic solar cells
10:20 am – 10:45 am	K.S. Narayan Strategies to speed up organic field effect transistors
10:45 am – 11:15 am	Tea /Coffee Break + Photo Session
Session II <i>Chair:</i>	
11:15 am - 11:40 am	A.K. Sood Ultrafast photo-induced optical response of gold nanorods and clusters: Role of surface plasmons and energy transfer
11:40 am – 12:05 pm	George C. Schatz Opportunities in nanoscience with silver and gold nanoparticles
12:05 pm - 12:30 pm	Chandrabhas Narayana Novel nanostructures for SERS and SERS applications
12:30 pm - 1:30 pm	Lunch Break
Session III <i>Chair:</i>	
1:30 pm - 1:55 pm	Balasubramanian Sundaram Modelling complex molecular fluids
1:55 pm - 2:20 pm	Peter Voorhees Insights into grain growth using phase field crystal simulations

2.20 pm – 2:45 pm	Swapan.K Pati Structure and electronic properties of various DNA systems
2:45 pm - 3:10 pm	Tea/Coffee Break
Session IV <i>Chair:</i>	
3:10 pm - 3:35pm	Vinayak P Dravid Nanopatterning, microscopy & localized properties of multifunctional oxides and atomically-layered structures
3:35 pm – 4:00 pm	Ranjan Datta Aberration corrected transmission electron microscopy and high resolution electron energy loss spectroscopy
4:00 pm – 4:25 pm	Arindam Ghosh Achieving enhanced electronic and optoelectronic functionality with hybrid of atomically thin semiconductor membranes
4:25 pm - 6:00 pm	Tea/Coffee Break + Poster Session

Tuesday, 22nd January, 2013

Session V	
<i>Chair:</i>	
9:30 am – 9:55 am	Mark C. Hersam Nanomaterials for electronics, energy and biological applications
9:55 am – 10:20 am	Santanu Bhattacharya Properties of various nanocarbons in self-assembled molecular networks
10:20 am – 10:45 am	Jiaying Huang Conformation dependent properties and applications of bulk graphene materials
10:45 am – 11:15 am	Tea/Coffee Break
Session VI	
<i>Chair:</i>	
11.15 am - 11:40 am	D.D Sarma Photoluminescence from semiconductor nanocrystals
11:40 am - 12:05 pm	Michael J. Bedzyk X-ray atomic-scale structural studies of interfaces with chemical-stat
12:05 pm - 12:30 pm	Venkat Chandrashekar Charge-vortex duality at the LAO/STO interface
12:30 pm - 1:30 pm	Lunch Break
Session VII	
<i>Chair:</i>	
1:30 pm - 1:55 pm	Sebastian C Peter Structure and properties of intermetallics compounds
1:55 pm - 2:20 pm	Matthew Grayson Transport in quantum structures and new materials
2:20 pm – 2:45 pm	Umesh V. Waghmare Pressure induced electronic topological transition from band to topological insulator in Sb ₂ Se ₃ : Theory and Experiment
Session VIII	
3:00 pm - 4:30 pm	Tea/Coffee Break + Interactive Discussion/groups

4:45 pm - 5:00 pm	<i>Concluding Remarks</i>
7:30 pm	Dinner (Conference Dining Hall)