



Workshop on Physics and Chemistry of Materials  
17<sup>th</sup> to 18<sup>th</sup>, February 2017  
Organized by  
Department of Material Science  
Indian Association for the Cultivation of Science  
Venue: C.V Raman Hall, 2<sup>nd</sup> Floor, IACS Main Building

**Technical sessions**

<b>1<sup>st</sup> Day : 17.02.2017, Friday</b>		
<b>Time</b>	<b>Speaker</b>	<b>Title of the talk</b>
09:30 to 09:45 AM	Welcome Address	
<b>Session 1</b> <b>09:45 - 11:15 AM</b>	<b>Chairperson</b> <b>Prof. Amlan J Pal</b>	
09:45 to 10:15	Prof. S. K. Ray, S N Bose Centre,	Heterostructure Devices using 2D Materials on Silicon Platforms
10:15 to 10:45	<i>Prof. R. Chatterjee</i> I.I.T, Delhi	Understanding the Magnetolectric Coupling in some Single-phase Oxides
10:45 to 11:15	Prof. P. Selvam <i>IIT – Madras,</i>	Nanostructured Materials and their Applications in Catalysis
<b>11:15 to 11:45 AM</b>	<b>Tea Break</b>	
<b>Session 2</b> <b>11:45 AM - 1:45 PM</b>	<b>Chairperson</b> <b>Prof. Manabendra Mukherjee</b>	
11:45 AM to 12:15 PM	Prof. Alok Kr Mukherjee, Jadavpur University	X-ray Powder Diffraction: New Opportunity In Structural and Microstructural Study
12:15 PM to 12:45 PM	Professor Ashok K Ganguli INST, Mohali, Punjab	Design of New Superconducting Compounds containing conducting BiS <sub>2</sub> layers and other related materials
12:45 PM to 01:15 PM	Prof. D. D. Sarma, IISC, Bangalore	Electronic structure of the elusive metastable state in chemically exfoliated few layer MoS <sub>2</sub>
01:15 PM to 01:45 PM	Prof. S. Dutta Gupta University of Hyderabad	Exploiting avoided crossing in optics: slow light to transverse spin
<b>01:45 PM to 02:45 PM</b>	<b>Lunch</b>	
<b>Session 3</b>		
2:45 PM to 5:00 PM	Poster	
4:30 PM to 5:00 PM	Tea Break	
<b>Session 4</b>	<b>5:00 PM - 6:00 PM</b>	
5:00 PM to 6:30 PM	Felicitaton to Professor Dipankar Chakravorty	
7:30 PM ---	Dinner	

**2<sup>nd</sup> Day : 18.02.2017, Saturday**

<b>Time</b>	<b>Speaker</b>	<b>Title of the talk</b>
<b>Session 5</b> <b>10.00 AM-11.30 AM</b>	<b>Chairperson</b> <b>Prof. Bhupendra Nath Dev</b>	
10.00 AM to 10:30 AM	Dr. Goutam De, CSIR-CGCRI, Kolkata	Designing Functional Nanocoatings by Wet Chemistry
10:30 AM to 11:00 AM	Dr. Sudipta Roy Barman UGC-DAE-CSR, Indore	Self assembled nanostructures on metal surfaces
11:00 AM to 11:30 AM	Dr. Sayan Bhattacharyya <i>(IISER) Kolkata,</i>	Strategies to Boost the Power Conversion Efficiencies in Quantum Dot Sensitized Solar Cells
<b>11:30 AM to 12:00 AM</b>	<b>Tea Break</b>	
<b>Session 6</b> <b>12:00 - 1:30 PM</b>	<b>Chairperson</b> <b>Prof. Indra Dasgupta</b>	
12:00 to 12:30 PM	Prof. U Waghmare, JNCASR, Bangalore	Computational Development of New Materials: an Integrated Approach based on Mechanics and Machine Learning
12:30 PM to 01:00 PM	Prof. A. K. Tyagi BARC, Mumbai	Metastable materials: Challenges and opportunities
01:00 PM to 01:30 PM	Dr. Surjeet Singh IISER Pune	Spin-1/2 impurities in quantum spin 1/2 chains
<b>1:30 PM to 2:30 PM</b>	<b>Lunch</b>	