

Divisional Day – 2017

Physical and Materials Chemistry Division

2nd Floor Lecture Hall
30th November 2017

Programme Schedule

9.30 -- 10:00	Inaugural Session
10:00 – 11:00	Technical Session 1 Chair – Dr. BLV Prasad
10:00 – 10:30	<i>Incubating New Businesses: The Innovation Centre Story</i> Dr. Ashim Mullick, TCL Innovation Centre.
10:30 – 11:00	<i>Computational Heterogeneous Catalysis: A Footprint in the Chemical Industry</i> Dr. Sharankumar Shetty, SABIC
11:00 – 11:30	Technical Session 2 Chair – Prajna Mishra
11:00 – 11:15	<i>Flexible Supercapacitors for Wearable Energy Storage</i> Mr. Vedi Kuyil Azhagan
11:15 – 11:30	<i>Scalable Synthesis of Metal Oxide & Bimetallic Nanoparticles.</i> Mr. Arun Nikam

11:30 – 13:30	Poster Session + Tea
13:30 – 14:30	Lunch
14:30 – 15:45	Technical Session 3 Chair – Shankar Dalvi
14:30 – 14:45	<i>Why does Small Molecule Activation by Al(I) Compounds Occur Only in Aromatic Solvents? Insights from Theory</i> Ms. Shailja Jain
14:45 – 15:00	<i>NIR Active Squaraine Dyes for Dye-Sensitized Solar Cells: Modulating Aggregation and Electronic Properties of the Dyes</i> Mr. Rajesh H Bisht
15:00 – 15:15	<i>Activity Tuning of Ferrite Nanoparticles towards Oxygen Reduction Reaction for Zn-air Batteries</i> Mr. Varchaswal Kashyap
15:15 – 15:30	<i>Effect of Chain Length of Surfactant on the Thermal Conductivity of Magnetite Nanofluids</i> Mr. Arun Dadwal
15:30 – 15:45	<i>Electric field catalysis: a New Avenue Toward Understanding Organic Reaction Mechanism</i> Mr. Pranab Deb

15:45 – 16:15	Tea
16:15 – 17:30	Technical Session 4 Chair – Ayesha Nadeema
16:00 – 16:15	<i>Graphene Quantum Dots Driven Multiform Morphologies of NaYF₄:Gd³⁺/Tb³⁺ Phosphors and Their Optical Properties</i> Ms. Monika Malik
16:15 – 16:30	<i>Characterization of Intermediate States During Protein Folding, Misfolding and Aggregation.</i> Mr. Nirbhik Acharya
16:30 – 16:45	<i>A Galvanic Replacement-based Cu₂O Self-templating Strategy for the Synthesis and Application of Cu₂O–Ag Heterostructures and Monometallic (Ag) and Bimetallic (Au–Ag) Hollow Mesocages</i> Mr. Rangarajan B
16:45 – 17:00	<i>Colossal Photo-Conductive Gain in Low Temperature Processed TiO₂ Films and Their Application in Quantum Dot Solar Cells</i> Mr. Debranjana Mandal
17:15 – 17:30	<i>Ultraporous Covalent Organic Frameworks (COFs) in Seconds via Organic Terracotta Process</i> Mr. Suvendu Karak
17:30 – 18:00	Concluding Remarks