



# YOUNG SCIENTIST'S COLLOQUIUM YSC 2016



16 September, 2016

Venue: Silver Jubilee Hall, S. N. Bose National Centre for Basic Sciences, Kolkata

## PROGRAMME SCHEDULE

Time	Programme
09:00	Registration
09:30	Inaugural Session
10:00 - 10:20	<i>Determination of the electronic structure of the elusive metastable state in chemically exfoliated MoS<sub>2</sub> layers</i> <b>Banabir Pal</b> , Solid State and Structural Chemistry Unit, Indian Institute of Science, Bengaluru
10:20 - 10:40	<i>Robust local and nonlocal transport in the topological Kondo insulator SmB<sub>6</sub> in the presence of a high magnetic field.</i> <b>Sangram Biswas</b> , Department of Physics, Indian Institute of Science, Bangalore
10:40 - 12:00	High Tea & Poster Session (Venue: Foyer of Boson and Fermion Lecture Halls)
12:00 - 12:20	<i>Colloidal CsPbX<sub>3</sub> Perovskite Nanocrystals: Excellent Luminescence and Photovoltaic Cell</i> <b>Abhishek Swarnkar</b> , Department of Chemistry, Indian Institute of Science Education and Research (IISER) Pune
12:20 - 12:40	Influence of measurement protocol on the magnetocaloric properties in Mn-Ni-Sn-Si off-stoichiometric Heusler alloy <b>Arup Ghosh</b> , Department of Physics, Indian Institute of Science Education and Research, Pune
12:40 - 13:00	<i>Magnetic and magnetocaloric properties of rare earth intermetallic compounds RCoNi (R = Gd, Tb, Dy and Ho) and HoCo<sub>2-x</sub>Ni<sub>x</sub> (0 ≤ x ≤ 2)</i> <b>Rajib Mondal</b> , Department of Physics, Indian Institute of Technology Madras, Chennai
13:00 - 13:20	<i>High Performance Supercapacitor Device based on Polyaniline Nanostructures</i> <b>Sanjoy Mondal</b> , Polymer Science Unit, Indian Association for the Cultivation of Science, Jadavpur, Kolkata
13:20 - 14:20	Lunch Break

14:20 - 14:40	<i>Charge and Energy Transfer Dynamics of Chlorophyll-a reinforced nanohybrid Materials</i> <b>Debmallya Das</b> , Dept. of Metallurgical and Material Engineering, Jadavpur University, Kolkata
14:40 - 15:00	<i>Cooperative J-aggregation and impact on photophysical properties and excited state dynamics of core- substituted naphthalene diimides (cNDI)</i> <b>Haridas Kar</b> , Polymer Science Unit, Indian Association for the Cultivation of Science, Kolkata
15:00 - 15:20	<i>Synthesis of n-type and p-type doped carbon dots: Their influence on electron/hole transfer process</i> <b>Monoj Kumar Barman</b> , Department of Materials Science, Indian Association for the Cultivation of Science, Kolkata
15:20 - 15:40	<i>Supramolecular Assembly of Organic Luminogens into One-dimensional Structure at Air-water Interface</i> <b>Subrata Maji</b> , Centre for advanced materials (CAM), Indian Association for the Cultivation of Science, Kolkata
15:40 - 16:00	Tea Break
16:00 - 16:20	<i>Design of Nanoprobe for the Imaging of Mitochondria and Golgi apparatus</i> <b>Atanu Chakraborty</b> , Centre for Advanced Materials, Indian Association for the Cultivation of Science, Kolkata
16:20 - 16:40	<i>Extremely robust zirconia based superhydrophobic coating on cotton fabrics for diverse applications</i> <b>Indraneel Das</b> , Nano-Structured Materials Division, CSIR-Central Glass and Ceramic Research Institute, Kolkata
16:40 - 17:00	<i>Synthesis of nanotubes from bio-waste Eichhornia Crassipes: A novel approach to develop oxygen separation membrane</i> <b>Quazi Arif Islam</b> , CSIR-Central Glass and Ceramic Research Institute, Kolkata
17:00 - 17:20	<i>Big Atoms and their Compounds</i> <b>Rekha Mahadevu</b> , Solid State and Structural Chemistry Unit, Indian Institute of Science, Bangalore
17:20 - 17:40	<i>Evaluation of Semi-metallic Fe<sub>3</sub>O<sub>4</sub> Nanocavities using Terahertz Waves</i> <b>R. Rakshit</b> , Department of Condensed Matter Physics and Material Sciences, S. N. Bose National Centre for Basic Sciences, Kolkata
17:40 - 18:00	<i>Single molecule DNA sequencing using graphene nanopore device</i> <b>Sourav Kundu</b> , Condensed Matter Physics Division, Saha Institute of Nuclear Physics, Kolkata
18:00 - 18:20	Tea Break
18:20 - 19:00	Valedictory and Prize Distribution Session

(Abstracts available at <http://newweb.bose.res.in/Conferences/YSC2016/>)