

# PEROVSKITE SOCIETY OF INDIA MEET (PSIM)-2023

## PROGRAM OVERVIEW

Day 1 : Wednesday, 1st March, 2023

08 : 00 AM onwards	Registration
09 : 30 AM - 10 : 15 AM	INAUGURATION
10 : 15 AM - 10 : 45 AM	High Tea
10 : 45 AM - 11 : 30 AM	Panel Discussion
11 : 30 AM - 12 : 00 AM	<b>Prof. Narayan Pradhan</b> School of Material Sciences IACS, Kolkata Title - Charge transport in mixed metal halide perovskite semiconductors
12 : 00 PM - 12 : 30 PM	<b>Prof. Sameer Sapra</b> IITD Title - Coupling CsPbBr <sub>3</sub> perovskite nanocrystals with MoSe <sub>2</sub> - a 2D transition metal dichalcogenide
12 : 30 PM - 01 : 00 PM	<b>Prof. Priya Mahadevan</b> S N Bose National Centre for Basic Sciences Kolkata Title - Can we have a set of rules to understand the structural distortions in 3-dimensional hybrid perovskites?
01 : 00 PM - 02 : 00 PM	LUNCH
02 : 00 PM - 02 : 30 PM	<b>Prof. Dinesh Kabra</b> IIT Bombay Title - Unconventional Materials that do more with Light
02 : 30 PM - 03 : 00 PM	<b>Prof. Easwaramoorthi Ramasamy</b> ARCI Title - Scalable Fabrication of Perovskite Solar Cells
03 : 00 PM - 03 : 30 PM	<b>Prof. S.P. Singh</b> CSIR Title - Rational Design of $\pi$ -Conjugated Small Molecules: From Structure to Function
03 : 30 PM - 04 : 00 PM	<b>Prof. Ranjani Viswanatha</b> JNCASR Title - Understanding mechanism of Mn emission in Perovskite halides using Raman Spectroscopy and Magnetic Circular Dichroism
04 : 00 PM - 05 : 45 PM	Poster Session & Tea break
05 : 45 PM - 06 : 15 PM	<b>Dr. Giribabu Lingamallu</b> CSIR Title - Alternative Holetransporting Materials for Perovskite Solar Cell
06 : 15 PM - 06 : 45 PM	<b>Prof. Satyaprasad Senanayak</b> NIISER Title - Charge transport in mixed metal halide perovskite semiconductors
06 : 45 PM - 07 : 30 PM	<b>Plenary Speaker: Prof. Prashant V Kamat</b> Department of Chemistry & Biochemistry University of Notre Dame, USA
07 : 30 PM - 08 : 15 PM	General Body Meeting
08 : 15 PM - 09 : 00 PM	Dinner

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Day 2 : Thursday, 2nd March, 2023

08 : 15 AM - 09 : 00 AM	Breakfast
09 : 00 AM - 09 : 30 AM	<b>Prof. Silvia Colella</b> CNR Nanotec, Italy Title - Engineering hybrid halide perovskite processing and composition
09 : 30 AM - 10 : 15 AM	<b>Prof. Hirendranath Ghosh</b> BARC Title - Ultrafast Polarons Dynamics in Perovskite Materials
10 : 15 AM - 10 : 45 AM	<b>Prof. Shaibal Sarkar</b> IIT Bombay
10 : 45 AM - 11 : 00 AM	<b>Prof. Sayan Bhattacharya</b> IISER Kolkata Title - Dimensionality-control & Self-assembly of Perovskites
11 : 00 AM - 11 : 30 AM	Tea
11 : 30 AM - 12 : 00 AM	<b>Prof. Sushobhan Avasthi</b> IISC Bangalore Title - Dimensionality-control & Self-assembly of Perovskites
12 : 00 PM - 12 : 30 PM	<b>Prof. Anshuman Nag</b> IISER, Pune Title - Short-Wave Infrared (SWIR) Emitting (Doped) Halide Perovskites
12 : 30 PM - 01 : 00 PM	<b>Prof. Prasun Mandal</b> IISER Kolkata Title - Estimating Efficacy of Different Regions of the Solar Spectrum Towards Controlling Exciton Dynamics in Super-Bright, Highly-Pb-Replaced Perovskite Nanocrystal
01 : 00 PM - 02 : 00 PM	LUNCH
02 : 00 PM - 02 : 30 PM	<b>Prof. Geetha Balakrishna</b> Jain University, Bangalore Title - Suppression of Phase Segregation and Anion Exchange in Halide Perovskites towards Tandem Photovoltaics
02 : 30 PM - 03 : 00 PM	<b>Prof. Arijit K De</b> IISER Mohali Title - Mapping hot carrier relaxation mediated by low-frequency phonon modes in a lead-free double perovskite
03 : 00 PM - 03 : 30 PM	<b>Prof. Janardan Kundu</b> IISER Tirupati Title - Stereochemical Activity of ns <sup>2</sup> Metal Ions & Dopants, Structure-Property Correlation, Host-Dopant & Dopant-Dopant Interaction in Low Dimensional Metal Halide Hybrids
03 : 30 PM - 04 : 00 PM	<b>Prof. Zishan Husain Khan</b> Jamia Millia Islamia, New Delhi.
04 : 00 PM - 05 : 45 PM	Poster Session & Tea break
05 : 45 PM - 06 : 15 PM	<b>Prof. K.V.Adarsh</b> IISER, Bhopal Title - Emergent Correlated Coherent Phenomena in Size and Shape Controlled Metal Halide Perovskite Quantum Dots
06 : 15 PM - 06 : 45 PM	<b>Dr. Subhendu Kumar Panda</b> CSIR-Central Title - Halide Perovskites: Promising Materials for Next Generation Renewable and Sustainable Energy Demands
06 : 45 PM - 07 : 30 PM	<b>Prof. Pralay Santra(30mins)</b> CeNS Bangalore
07 : 30PM - 08 : 15 PM	Gala Dinner

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## PROGRAM OVERVIEW

Day 3 : Friday, 3rd March, 2023

08 : 15 AM - 09 : 00 AM	Breakfast
09 : 00 AM - 09 : 30 AM	Prof. Deepa Khushalani TIFR Mumbai Title - Low Dimensional Hybrid Perovskites
09 : 30 AM - 10 : 15 AM	Prof. Vinod E. Madhavan NIT Calicut Title - Inorganic Hole Transport Material with 3D/2D Perovskite Solar Cells for higher stability
10 : 15 AM - 10 : 45 AM	Prof. Supravat Karak IIT Delhi Title - Understanding the different influences of host-salt non-stoichiometry, trap states and material phases on the performance of perovskite solar cells
10 : 45 AM - 11 : 00 AM	Dr. V Ganapathy Scientist, ARCI Title - Carbon based Perovskite Solar Cells for Scalability and Stability
11 : 00 AM - 11 : 30 AM	Tea
11 : 30 AM - 12 : 00 AM	Prof.D.D.Sarma Solid State and Structural Unit IISc Bangalore
12 : 00 PM - 12 : 30 PM	Prof. Ashish Kumar Sharma UPES Dehradun
12 : 30 PM - 01 : 00 PM	Prof. Rupak Banerjee IIT Gandhinagar Title - Mechanism of Ionic Conductivity, Dielectric Relaxation, and Energy Harvesting Properties of Halide Perovskites
01 : 00 PM - 02 : 00 PM	LUNCH
02 : 00 PM - 02 : 30 PM	Prof. Pankaj Yadav PDEU
02 : 30 PM - 03 : 00 PM	Prof. Shahab Ahmed IIT jodhpur Title - Metal Halide Perovskites: From Optoelectronic to Optoionic Devices
03 : 00 PM - 04 : 00 PM	Plenary Speaker: Prof. Osman Bakr (45 mins) Material Science and Engineering Kaust, Saudi Arabia
04 : 00 PM - 04 : 45 PM	Closing Ceremony
04 : 45 PM - 05 : 15 PM	Lab Visit