

2nd International Conference on Advanced Materials and Manufacturing (ICAMM 2.0): January 8 & 9, 2026

Program Schedule

DAY 1: 8th January 2026 (All times shown are IST)

8:00 -9:00	Registration	
9:00-9:30	<p style="text-align: center;"><i>Inauguration Ceremony (Auditorium-1)</i> Chief Guest: Padma Shri Prof. Ashutosh Sharma Guest of Honour: Dr. Binay Kumar Das, DG-ECS, DRDO Padma Shri Prof. Ajoy Kumar Ray, Director, JISIASR</p>	
09:30-10:00	<p style="text-align: center;"><i>Distinguished Lecture by</i> Guest of Honor Dr. Binay Kumar Das DG-ECS, DRDO</p>	
10:00-10:30	<p style="text-align: center;"><i>Distinguished Lecture by</i> Padma Shri Prof. Ashutosh Sharma President, INSA Institute Chair Professor Department of Chemical Engineering IIT Kanpur</p>	
10:30-10:35	Vote of Thanks	
10:35-10:45	Tea Break	
	<p style="text-align: center;">Session 2 (Auditorium-1) Chair: Padma Shri Prof. Chaitanyamoy Ganguly</p>	
11:00-11:30	<p style="text-align: center;">Plenary Lecture-1 Speaker: Prof. Kalobaran Maiti Director, IACS, Kolkata</p>	
11:30-12:00	<p style="text-align: center;">Plenary Lecture-2 Title: Innovations in Advanced Materials for Sustainable Society: Bridging Basic Science with Strategic, Societal, and Industrial Needs Speaker: Prof. Bikramjit Basu Director, CSIR-CGCRI, Kolkata</p>	
Session 3	<p style="text-align: center;">Auditorium-1 Session 3A Keynote/Invited / Oral Lecture (KN/IL/OL) Chair: TBA</p>	<p style="text-align: center;">Auditorium-2 Session 3B Keynote/Invited / Oral Lecture (KN/IL/OL) Chair: Prof. Urmimala Maitra</p>

12:10-12:30	Title: Organic Nanostructures in Therapeutics and Diagnostics (KN) Speaker: Prof. Prasanta Kumar Das IACS, Kolkata	Title: Design of a Portable Chemical Microsorbent-based Mass Spectrometry Platform for Rapid Detection of Bacterial Pathogen (IL) Speaker: Prof. Chiranjit Ghosh, MAHE, Manipal, Karnataka
12:30-13:15	Poster Session	
13:15-14:00	Lunch Break	
Session 4	Auditorium-1 Session 4A Keynote/Invited / Oral Lecture (KN/IL/OL) Chair: Prof. Sandip Paul	Auditorium-2 Session 4B Keynote/Invited / Oral Lecture (KN/IL/OL) Chair: Prof. Sarthak Mandal
14:00-14:20	Title: Functional Luminous Lanthanide (III) Materials in Action: From UV Shielding to Real-Time Explosive Sensing (IL) Speaker: Prof. Tufan Singha Mahapatra ICFAI University, Tripura	Title: Optimizing Horseradish Peroxidase-Mimic DNAzymes as Nanotransducers for Glucometer-Based Detection (IL) Speaker: Prof. Souradyuti Ghosh Mahindra University, Hyderabad
14:20-14:40	Title: Harnessing the Potential of Hydrogels for Applications in Wound Care, Therapeutics and Bioelectronics (IL) Speaker: Prof. Atanu Singha Roy NIT Meghalaya, India	Title: Fe-Mn based cathode for Na-ion cathodes as sustainable alternative for current Li-ion technology (IL) Speaker: Prof. Urmimala Maitra IACS, Kolkata
14:40-15:00	Title: TBA (KN) Speaker: TBA	Title: Cost Effective Sensors for Quality Assessment: How Important (IL) Speaker: Prof. Kalisadhan Mukherjee PDEU, Gandhinagar
15:00-15:20	Title: Innovative Nanocarrier Systems for Visceral Leishmaniasis: Artemisinin Nanoparticles and Gold Nanoparticles Boost Therapeutic and Immune Responses (IL) Speaker: Prof. Farhat Afrin JISIASR	Title: Bioactive Pigmented Extracellular Metabolites from Endophytic <i>Bacillus siamensis</i> UPES SB-03: Structural Characterization and Biomedical Applications (IL) Speaker: Prof. Suvendu Manna University of Petroleum and Energy Studies, Dehradun
15:20-15:30	Tea Break	
Session 5 (Auditorium-1) Chair: Padma Shri Prof. Ajoy Kumar Ray, Director, JISIASR		
15:30-16:00	Plenary Lecture-3 Title: Innovating for Impact: Affordable Diagnostics to Transform Grassroots Health Speaker: Prof. Suman Chakraborty Director, IIT Kharagpur, India	

16:00 - 16:30	Panel Discussion (Patent or Perish: The New Reality of R&D), (Auditorium – 1)	
Session 6	Auditorium-1 Session 6A Keynote/Invited / Oral Lecture (KN/IL/OL) Chair: Prof. Atanu Singha Roy	Auditorium-2 Session 6B Keynote/Invited / Oral Lecture (KN/IL/OL) Chair: Prof. Sugata Ghosh
16:30-16:45	Title: TBA (KN) Speaker: Prof. K. K. Chattopadhyay Professor, Department of Physics Director- School of Materials Science and Nanotechnology Jadavpur University , Kolkata	Title: Sodium Solid State Batteries: Sustainable Chemical pathways of Energy Storage for Our World (Oral) Speaker: Dr. Nabadyuti Barman Department of Chemistry, Srikrishna College, Bagula, West Bengal
16:45-17:00		Title: Palladium-Catalyzed Synthesis of 2-Aryl- 2H-Benzotriazoles from Azoarenes and TMSN ₃ (Oral) Speaker: Dr. Nilufa Khatun, Department of Chemistry, Harimohan Ghose College, Kolkata
End of Day 1		

DAY 2: 9th January 2026 (All times shown are IST)

Session 7 (Auditorium – 1) Chair: TBA	
9:00-9:30	Title: TBA Plenary Lecture-4 Speaker: TBA
9:30-10:00	Title: Advanced Materials & Manufacturing Technology for Sustainable “Energy Security” and “Environmental Protection” Plenary Lecture-5 Speaker: Padma Shri Prof. Chaitanyamoy Ganguly CMA, Hyderabad, India
10:00-10:30	Title: Laser Assisted Surface Engineering and Additive Manufacturing Plenary Lecture-6 Speaker: Prof. Indranil Manna Vice Chancellor, Birla Institute of Technology (BIT) Mesra
10:30-11:00	Title: Sustainable Materials and Technologies for Affordable Health Plenary Lecture-7 Speaker: Prof. Santanu Dhara IIT Kharagpur, India

11:00-11:20	Title: Navigating Changes in the Publication Landscape Speaker: Dr. Subhabrata Mukhopadhyay Deputy Editor, Physical Sciences — Wiley
11:20-11:30	Tea-break

Session 8	Auditorium-1 Session 8A Keynote/Invited / Oral Lecture (KN/IL/OL) Chair: TBA	Auditorium-2 Session 8B Keynote/Invited / Oral Lecture (KN/IL/OL) Chair: Prof. Dibakar Dhara
11:30-11:50	Title: Innovative Nanomaterials for Solar-Driven PEC Hydrogen Production: Chemistry Toward Long-Term Sustainability (IL) Speaker: Prof. Subhasis Roy University of Calcutta	Title: Development of a Flexible, Adhesive, Multifunctional and Free-Standing Carbon Electrode for High-Performance Sustainable Energy Systems (IL) Speaker: Prof. Sarthak Mandal NIT Trichi
11:50-12:10	Title: Aqueous Sodium-Ion Batteries as a Low-Cost Platform for Solar Energy Storage (IL) Speaker: Prof. Anjan Banerjee Presidency University, Kolkata	Title: Novel Materials and Manufacturing Advances in Scaffold for Bone Tissue Engineering (IL) Speaker: Prof. Mitun Das CSIR-CGCRI, Kolkata
12:10-12:30	Title: Reinventing UTI Diagnostics: A Portable, Paper-Based Optical Sensor Using Liposome–Silk Bio-Ink (IL) Speaker: Prof. Priyadip Das SRMIST-Chennai	Title: Strategy to Inhibit Protein Corona Formation and Bacterial Infection for Infection-Resistant Wound Dressings (IL) Speaker: Prof. Abhijit Saha SRMIST-Chennai
12:30-12:50	Title: TBA Speaker: Prof. Kamakshi Sureka JISIASR	Keynote / Invited Lecture Title: TBA Speaker: TBA
12:50-13:30	Lunch Break	
13:30-14:00	Poster Session	
Session 9	Auditorium-1 Session 9A Keynote/Invited / Oral Lecture (KN/IL/OL) Chair: Prof. Subhankar Singha	Auditorium-2 Session 9B Keynote/Invited / Oral Lecture (KN/IL/OL) Chair: Prof. Kamakshi Sureka
14:00-14:20	Title: Glimepiride-Captisol® (uniquely modified cyclodextrin) inclusion complexes; Development and Evaluation (IL) Speaker: Prof. Kajal Ghosal Jadavpur University, Kolkata	Title: Electro and photochemical methods in synthesis of value-added organic compounds. (IL) Speaker: Prof. Mrinal K Bera IEST Shibpur, Howrah

14:20-14:40	Title: Interplay of Research and Commercialization Speaker: Dalel Singh Founder, Native Naturals	Title: 3D Printing and it's application for patient-specific solutions Speaker: Mr. Turin Dutta Executive Director, Guardian, Kolkata
14:40-15:00	Title: Non-equilibrium self-assembly for living matter-like properties (KN) Speaker: Prof. Dibyendu Das IISER Kolkata	Title: Hybrid CO ₂ Electrolysis and Defect-Engineered SnO ₂ Nanostructures for Energy-Efficient Formate Production (IL) Speaker: Prof. Sirshendu Ghosh Chanakya University, Bangalore
15:00-15:20	Title: Gold Nano-Conjugates of Block Copolymer Prodrug based Nanoparticles for Cancer Theranostics (KN) Speaker: Prof. Dibakar Dhara IIT Kharagpur, India	Title: Harnessing Stochastic Dipole Dynamics and Light-Matter Interaction in Two-Dimensional Ferroelectrics for Secure, Opto-Electronic and Quantum-Inspired Applications Speaker: Prof. Biswajit Das Dr. Sudhir Chandra Sur Institute of Technology & Sports Complex (SurTech), Dum Dum, Kolkata
15:20-15:40	Title: Amorphous Analogue of Graphene and Related Hybrid as Excellent Cold Cathode Emitter Speaker: Prof. Diptonil Banerjee Teerthanker Mahaveer University, Moradabad, UP	Title: Donor-Bound Excitons and Intersubband Excitation-Driven Resistive Switching in Indium-Doped 2D CdSe Nanocrystals Speaker: Dr. Ali Hussain Khan, SNBNCBS
15:40-16:00	Title: Advanced Fluorescent Probes for Cancer Cell Identification and Tumor Imaging (IL) Speaker: Prof. Sankarprasad Bhuniya JISIASR	Title: Exploring Layered Disorder in Lithium-Ion-Conducting Li ₃ Y _{1-x} In _x Cl ₆ Speaker: Prof. Ananya Banik IIT (ISM), Dhanbad
16.00-16.10	Tea Break	
Session 10	Auditorium-1 Session 10A Keynote/Invited / Oral Lecture (KN/IL/OL) Chair: Prof. Subhasis Roy	Auditorium-2 Session 10B Keynote/Invited / Oral Lecture (KN/IL/OL) Chair: Prof. Sankar P. Bhunya
16:10-16.25 (Oral)	Title: Surfactant-Mediated Hydrophobic Cargo Transport: From Nanoparticle Phase Transfer to Polyaromatic Hydrocarbon Solubilization (OL) Speaker: Dr. Bappaditya Naskar, Department of Chemistry, Sundarban Hazi Desarat College, West Bengal	Title: Superior catalytic activity of 1T'-WSe ₂ for efficient hydrogen evolution (OL) Speaker: Dr. Anup Debnath Department of Physics, Pachhunga University College (Constituent College of Mizoram University)
16:25-16:40 (Oral)	Title: Stimuli Responsive L-DOPA based Low Molecular Weight Gel for Detection of Fluoride Ion (OL) Speaker: Dr. Tanmoy Kar, Department of Chemistry, Vivekananda Mission Mahavidyalaya, West Bengal	Title: Layer-Induced Modulation of the Optoelectronic Properties in Two-Dimensional Rhenium Dichalcogenides (OL) Speaker: Dr. Sudipta Koley, Amity Institute of Applied Sciences, Amity

		University Kolkata
16:40-16:55 (Oral)	Title: An attempt to generate the precision surface figure on Hard Ceramics by using the advanced manufacturing technique (OL) Speaker: Mr. Deepak Kumar, Advanced Ceramics and Composites Division, CSIR- CGCRI, Kolkata	Title: Dual-Channel Fluorescent Probe for Real-Time Monitoring of ER Viscosity and Polarity Under Stress (OL) Speaker: Mr. Athul K K, Centre for Interdisciplinary Sciences, JIS Institute of Advanced Studies and Research, Kolkata
16:55-17:10	Award distribution (Auditorium – 1)	
17:10-17:20	Valedictory Session (Auditorium – 1)	