International Conference on Innovative Functional Materials for Energy and Environmental Technologies (i-MEET-2026)

PROGRAMME

Venue: Swami Vivekananda Auditorium (CSIR-IICT)

Day 1: WEDNESDAY 4th November, 2026

07 : 45 Hrs - 08 : 30 Hrs	**BREAKFAST**
08 : 30 Hrs - 09 : 00 Hrs	Registration
INAUGURAL PROGRAMME **09:00 Hrs - 11:30 Hrs**	
09:00 - 09:05	Welcoming Dignitaries on Dias
09:05 - 09:10	Presentation of bouquet to Chief Guest & Guest of Honours
09:10 - 09:20	Lighting of the lamp by Dignitaries and Prayer
09:20 - 09:30	Welcome Address by Director, CSIR-IICT
09:30 - 09:34	Introduction to i-MEET by Convener, Dr. Vasundhara Mutta
09:34 - 09:40	About conference by Dr. L Giribabu, Chairman of i-MEET
09.40 - 09:50	Prof T. Narasinga Rao, Guest of Honour Vice Chancellor of Venkateswara University, Tirupati
09.50 - 10:00	Address by Dr. S V S Narayana Murty, Guest of Honour, Chairman and Managing Director of MIDHANI
10:00 - 10:15	Address by Dr. R. Balamurali Krishnan, Distinguished Scientist & Director General, Naval Systems and Materials, DRDO, Chief guest
10:15- 10.30	**Speech by Padmashree Subha V Iyenger**
10:30 - 10:33	Release of the conference Souvenir
10:33 -10:40	Felicitations of Chief Guest & Guest of Honours by Director CSIR-IICT
10:40 - 10:45	Vote of thanks by Dr. Surya Prakash Singh, Co-Convener
10:45 - 10:47	National Anthem
10:47 - 11:00	i-MEET, Group Photograph
11:00 - 11:30	**HIGH TEA**
SESSION I: KEYNOTE LECTURES **11:30 Hrs - 13:15 Hrs** **SESSION CHAIR: Dr. V Nettam Chowdhury, Distinguished Scientist, CSIR-IICT**	
11:30 - 12.05 **KL-01**	**Prof. Tata Narasinga Rao**, Vice-Chancellor, Sri Venkateswara University, Tirupati *Translational Materials Research for Self-Reliance (From Mind to Market)*
12:05 - 12:40 **KL-02**	**Dr A P Dash**, Director, DRDO-HEMRL *Advanced metal hydrides and oxidizers for high energy materials formulations*
12:40 - 13:15 **KL-03**	**Prof. Bikramjit Basu**, Director, CSIR-CGCRI *Materials Science-led innovation for the Developed India*
13:15 - 14:15	**LUNCH**
SESSION II: KEYNOTE LECTURES **14:15 Hrs - 16:15 Hrs** **SESSION CHAIR: Prof. Tata Narasinga Rao**, Vice-Chancellor, Sri Venkateswara University, Andhra Pradesh	
14:15 - 14:50 **KL-04**	**Prof. Yasuhiko HAYASHI,** Professor, Okayama University, Japan *Simultaneous defect passivation and crystallization control in $FAPbI_3$ perovskite solar cells via additive engineering*

14:50 - 15:25 **KL-05**	**Dr. Suman Roy Choudhury,** Director, DRDO-NMRL *Silent power generation in battlefield and requirement of specialized materials*
15:25 - 16:00 **KL-06**	**Dr. R. Vijay, Director,** ARCI, Hyderabad *Role of Advanced Materials towards Development of Solar Energy Conversion and Battery Energy Storage Systems*
16:00 - 16:15	**TEA BREAK**
SESSION III: INVITED LECTURES **16.15 Hrs - 17.40 Hrs** **SESSION CHAIR: Dr. S. Sridhar, Scientist-G, CSIR-IICT**	
16:15 - 16:40 **IL-01**	**Dr. G. Arthanareeswaran,** Professor, NIT Trichy *Present relevance and future opportunities of membranes for environment and energy applications*
16:40 - 16:55 **sIL-01**	**Dr. Rajmohan Soundararajan,** Associate Professor, NIT Warangal *Metal-free carbon nitride and ZnO–MoS_2 heterojunction photocatalysts: advances for sustainable energy conversion and environmental remediation*
16:55 - 17:10 **sIL-02**	**Dr. Racha Surya Murali,** Scientist-E, CSIR-IIP *Advanced Functional Membranes for Gas Separation: Materials Innovation for Energy and Environmental Sustainability*
17:10 - 17:25 **sIL-03**	**Dr. Narendra Babu Simhachalam,** Associate Professor, Osmania University *Visible-light-driven photodegradation of paint industrial wastewater using a novel CuO@TiO_2 nanocomposite*
17:25 - 17:40 **sIL-04**	**Dr. Parvathalu Kalakonda,** Associate Professor, Osmania University *Green-engineered trimetallic nanocomposites: a synergistic approach to photocatalysis and biomedical therapy*
17:45 - 19:00	**POSTER SESSION**
19:00 - 20:00	**CULTURAL EVENT**
20:00 - 21:30	**DINNER**

Day 2: THURSDAY, 5th November 2026

07 : 45 Hrs - 08 : 30 Hrs	**BREAKFAST**
SESSION IV: KEYNOTE & INVITED LECTURES **8:40 Hrs - 11:15 Hrs** **SESSION CHAIR: Dr A. Gangagni Rao, Scientist-G, CSIR-IICT**	
08:40 - 9:15 **KL-07**	**Dr. Thallada Bhaskar, Director,** CSIR-AMPRI *Novel strategies for effective utilization of renewable biomass resources for energy and environmental applications - Thoughts on sustainability*
09:15 - 09.50 **KL-08**	**Dr. Venkata Mohan, Director,** CSIR-NEERI *Materials-Microbial Interfaces for Electro fermentation-Enabled Carbon Capture and Biomanufacturing*
09:50 - 10:15 **IL-2**	**Dr. Sanjay Kumar Srivastava,** Professor, BHU *Sustainable bio-waste-derived carbon nanostructures for biosensing, electrochemical energy storage and UV photodetector engineering*
10:15 - 10:30 **sIL-5**	**Dr. Korrapati Narasimhulu,** Associate Professor, NIT, Warangal *Transforming bioprocess engineering with artificial intelligence: intelligent optimization, digital twins, and sustainable bioprocessing*
10:30 - 10:45 **sIL-6**	**Dr. Devasish Chowdhury**, IASST, Guwahati *Green lubrication through nanotechnology: A pathway towards sustainable tribology*
10:45 - 11:00 **sIL-7**	**Dr. Akhil S. Nair, Scientist-C, CSIR-IICT** *Intrinsic point defect thermodynamics of k-based Vacancy-ordered double*

	perovskites
11:00 - 11:15	**TEA BREAK**
SESSION V: KEYNOTE & INVITED LECTURES **11:15 Hrs - 13:30 Hrs** **SESSION CHAIR: Prof. Yasuhiko HAYASHI,** Professor, Okayama University, Japan	
11:15 - 11:50 **KL-09**	**Dr. E. Bhoje Gowd,** Scientist-G, CSIR-NIIST *Polymer Aerogels: From Semicrystalline Networks to Multifunctional Materials*
11:50 - 12:15 **IL-03**	**Dr. Roy Shenhar,** Professor, The Hebrew University of Jerusalem, Israel *Toward bimetallic nanowires: Insights from the co-impregnation of block copolymer films*
12:15 - 12:40 **IL-04**	**Dr. Joe OTSUKI,** Professor, Nihon University, Japan *Porphyrin assemblies for light harvesting and molecular recognition*
12:40 - 13:05 **IL-05**	**Dr. Mudrika Khandelwal,** Professor, IIT Hyderabad *Bacterial cellulose as sheets and beads for purification*
13:05 - 13:30 **IL-06**	**Dr. Chandana Rath,** Professor, IIT-BHU, Banaras *Unusual magnetic properties of Co-Mn based spinel nanoparticles arising from cubic-tetragonal phase competition*
13:30 - 14:30	**LUNCH**
SESSION VI: KEYNOTE & INVITED LECTURES **14:30 Hrs - 16:15 Hrs** **SESSION CHAIR: Dr. Alexey Lukoyanov,** Senior Researcher, M. N. Mikheev Institute of Metal Physics of Ural Branch of Russian Academy of Sciences, Ekaterinburg, Russia	
14:30 -15:05 **KL-10**	**Prof. Tanusri Saha Dasgupta,** Director, S. N. Bose National Centre for Basic Sciences, Kolkata *Intelligent materials design for energy: ML in action*
15:05 - 15:40 **KL-11**	**Dr. Ramanuj Narayan**, Director, CSIR-IMMT, Bhubaneswar *Securing strategic metals: Scaled extractive paradigms and technology bridging at CSIR-IMMT*
15:40 - 16:05 **IL-07**	**Dr. Ajit K Patra,** Professor, UoH, Hyderabad *Competing magnetic states, critical phenomena and magnetocaloric properties of Al_2MnFe Heusler alloy*
16:05 - 16:15	**TEA BREAK**
SESSION VII: INVITED LECTURES **16:15 Hrs - 18:25 Hrs** **SESSION CHAIR: Dr Nakka Lingaiah, Scientist-G, CSIR-IICT**	
16:15 - 16:40 **IL-08**	**Dr. T N Narayanan,** Associate Professor, TIFR, Hyderabad *Tracking the buried interfaces in catalysis & batteries*
16:40 - 17:05 **IL-09**	**Dr. Rakhi R B,** Scientist-F, CSIR-NIIST, Thiruvananthapuram *Ti-based MXenes for next-generation supercapacitors*
17:05 - 17:30 **IL-10**	**Dr. Ujjwal Pal,** Scientist-G, CSIR-IICT, Hyderabad *Beyond photon harvesting: Engineering electrons for the green shift*

17:30 - 17:55 **IL-11**	**Dr. Takayuki SHIMIZU,** Branch Manager, IMRA JAPAN Co. Ltd, Japan *Accelerating the commercialization of emerging solar cells by strengthening industry-academia collaboration*
17:55 - 18:10 **sIL-08**	**Dr. Raghasudha Mucherla,** Associate Professor, NIT Warangal Magnetic nanocatalysis: A sustainable route to heterocycle synthesis and plastic upcycling
18:10 - 18:25 **sIL-09**	**Dr. Balaji Padya,** Assistant Professor, University of Hyderabad *Van der waals-structured nanomaterials-coupled eutectic phase change materials: processing and passive thermal management applications*
19:00 - 20:00	**CULTURAL EVENT**
20.00 - 21.30	**DINNER**

Day 3: FRIDAY, 6th November 2026

07 : 45 Hrs - 08 : 30 Hrs	**BREAKFAST**
SESSION VIII: KEYNOTE & INVITED LECTURES **08:40 Hrs - 11:15 Hrs** **SESSION CHAIR: Prof. Dachepalli Ravinder, Former Vice Chancellor, Osmania University**	
08:40 - 9:15 **KL-12**	**Dr. V. Raghavendra Reddy,** Scientist-H, CSR UGC-DAE, Indore *Mössbauer spectroscopy study of advanced functional materials*
9:15 - 9:50 **KL-13**	**Prof. Achanta Venu Gopal,** Director, CSIR-NPL, New Delhi *Functional materials for electromagnetics*
9:50 - 10:25 **KL-14**	**Dr. K Ramesha,** Director, CSIR-CECRI, Karaikudi *Battery energy storage: Material innovations and challenges*
10:25 - 10:50 **IL-12**	**Dr. Srinibas Sathapathy,** Professor, RRCAT DAE, Indore *High-performance piezoelectric/multiferroic nanogenerator based polymer nanocomposite films for biomechanical energy and stray electromagnetic noise harvesting applications*
10:50 - 11:15 **IL-13**	**Dr. Suraj P Khanna,** Scientist-G, CSIR-NPL, Karaikudi *From ReWORM Memory to Emergent Conductance Plateaus in Polymer–Metal Composites*
11:15 - 11:30	**TEA BREAK**
SESSION IX: INVITED LECTURES **11:30 Hrs - 13:40 Hrs** **Chairperson: Dr. S V Manorama, DAE-Raja Ramanna, Chair, CSIR-IICT**	
11:30 - 11:55 **IL-14**	**Dr. Alexey Lukoyanov,** Senior Researcher, M. N. Mikheev Institute of Metal Physics of Ural Branch of Russian Academy of Sciences, Ekaterinburg, Russia *Novel Heusler alloys for thermoelectric applications*
11:55 - 12:20 **IL-15**	**Dr. Manivel Raja,** Scientist-G, DMRL *Development of advanced magnetic materials and their applications*
12:20 - 12:35 **sIL-10**	**Dr. Bandi Mallesham,** Assistant Professor, Amity University, Hyderabad *Rare-earth co-doped zirconia-based electrolytes for intermediate temperature SOFCs*
12:35 - 12:50 **sIL-11**	**Dr. Murtaza Bohra**, Professor, Mahindra University, Hyderabad *Energy-saving dual-mode spin-current generation in $ZnFe_2O_4$/Pt heterostructures*
12:50 - 13:05 **sIL-12**	**Dr. Krishnamurthy Jyothinagaram,** Assistant Professor, NIT, AP *Development of advanced functional magnetic materials for sustainable*

	millikelvin refrigeration and quantum technologies
13:05 - 13:20 **sIL-13**	**Dr. P. Vengatesh** , Assistant Professor, SRM University *Effect of Ta dopant onto the structural and optoelectronic behaviour of SnO_2 thin films deposited by reactive rf magnetron sputtering*
13:20 - 13:35 **sIL-14**	**Dr. Someshwar Pola,** Associate Professor, Osmania University *Synthesis of a novel imidazole-thiadiazole diboronic acid for non-enzymatic OTFT-based salivary glucose sensing*
13:35 - 14:35	**LUNCH**

SESSION X: Young Scientists Presentations
15.00 - 16.45

Hall	**Swami Vivekananda Auditorium**	**SS Bhatnagar Lecture Hall**	**Sarojini Naidu Conference Hall**
	Energy storage materials (ESM)	**Environmental applications and sustainable technologies (EAST)**	**Functional Materials (FM)**
15:00 - 15:15	YSP-ESM01	YSP-EAST01	YSP-FM01
15:15 - 15:30	YSP-ESM02	YSP-EAST02	YSP-FM02
15:30 - 15:45	YSP-ESM03	YSP-EAST03	YSP-FM03
15:45 - 16:00	YSP-ESM04	YSP-EAST04	YSP-FM04
16:00 - 16:15	YSP-ESM05	YSP-EAST05	YSP-FM05
16:15 - 16:30	YSP-ESM06	YSP-EAST06	YSP-FM06
16:30 - 16:45	YSP-ESM07	YSP-EAST07	YSP-FM07
16:45 - 17:30	**Valedictory Function (**Concluding Remarks by the DIICT and guests, Awards and Vote of Thanks**)**		
17:30 - 18:00	**HIGH TEA**		