

# ICMST 2018

## LIST OF CONTRIBUTORY LECTURES

### Day 1: October 11, 2018

SL. No	NAME	ABSTRACT TITLE	INSTITUTE	THEME
1	SREEHARI VM	STRUCTURAL ANALYSIS OF A ROCKET NOSE CONE	SASTRA DEEMED TO BE UNIVERSITY, THANJAVUR	AEMAT
2	SWATHI MANIVANNAN	INVESTIGATIONS ON PHASE STABILIZATION AND DENSIFICATION OF LITHIUM ALUMINIUM SILICATE LOW EXPANDING CERAMICS	INTERNATIONAL ADVANCED RESEARCH CENTRE FOR POWDER METALLURGY AND NEW MATERIALS, BALAPUR	CMAT
3	BHUSANKAR TALLURI	SYNTHESIS OF ULTRA-SMALL (R<2 NM), DIGESTIVELY RIPENED STABLE COPPER OXIDE QUANTUM DOTS	IIT ,MADRAS	NMAT
4	SANDHYA RANI MANGISETTI	STRUCTURAL EVOLUTION AND ENERGY STORAGE PERFORMANCE IN VARIOUS ELECTROLYTES OF 2D GRAPHENE, 3D HONEY COMB AND 2D CARBON MICRO FLAKES FROM A SINGLE BIO-WASTE MATERIAL VIA A GREEN APPROACH	IIT, MADRAS	GMAT

### Day 2: October 12, 2018

5	SANDHYA C P	HIGH PERFORMANCE SUPERCAPACITORS BASED ON HYBRID LITHIUM TITANATE/PANI NANOCOMPOSITE AS AN ELECTRODE	CSIR-NIIST, TVM	EGMAT
6	GOPIKA G.	MOO3 PASSIVATION INDUCED PARASITIC RESISTANCES AND PERFORMANCE VARIATION IN DYE SENSITIZED SOLAR CELLS	AMRITA VISHWA VIDYAPEETHAM, KOCHI	
7	KAVYA KEREMANE	MOLECULAR ENGINEERING OF CARBAZOLE BASED CONJUGATED MOLECULE AS POTENTIAL HOLE-TRANSPORTING MATERIAL FOR PEROVSKITE SOLAR CELLS	NIT, KARNATAKA	
8	Dr. CHANDRA SEKHAR ROUT	PSEUDOCAPACITIVE ENERGY STORAGE PERFORMANCE OF NANOCARBON-TRANSITION METAL OXIDES/CHALCOGENIDES HYBRIDS WITH INSIGHT FROM DENSITY	CENTRE FOR NANO & MATERIAL SCIENCES, JAIN UNIVERSITY	

		FUNCTIONAL THEORY INVESTIGATIONS		
9	PALAKURTHY SRINATH	IN VITRO BIOACTIVITY OF WOLLASTONITE DERIVED FROM NATURAL WASTE FOR BIOMEDICAL APPLICATIONS	NIT, WARANGAL	BMAT
10	ROSEMARY M J	PHYSICAL CHARACTERISATION AND BIOCOMPATIBILITY STUDIES OF HYLAURONIC ACID HYDROGEL FOR THE TREATMENT OF OSTEOARTHRITIS	HLL LIFECARE LTD, INDIA	
11	LEENA JOSEPH	ON THE DEVELOPMENT OF CONTROL MATERIALS FOR BIOLOGICAL EVALUATIONS	SREE CHITRA TIRUNAL INSTITUTE FOR MEDICAL SCIENCES AND TECHNOLOGY, TVM	
12	ASWATHY MOHAN	INFLUENCE OF SM3+, EU3+ AND DY3+ SUBSTITUTION ON THE OPTICAL AND PHOTOLUMINESCENT PROPERTIES OF B-SITE ORDERED SRBILITEO6 DOUBLE PEROVSKITES	UNIVERSITY OF KERALA, TVM	CMAT
13	DEEPTHI L. SIVADAS	POROUS CARBON BLOCK DERIVED FROM FREEZE DRIED BANANA STEM :PROMISING CANDIDATE AS CO <sub>2</sub> ADSORBENT	VSSC, TVM	
14	SANGEETH KUMAR P.	EXPERIMENTAL STUDIES ON HYDROGEN ADSORPTION OF POROUS CARBON MATERIALS	IPRC, ISRO, INDIA	
15	HARISH SINGH DHAMI	MICROSTRUCTURAL CHARACTERISATION AND MECHANICAL PROPERTY EVALUATION OF HIGH NITROGEN MARTENSITIC STAINLESS STEEL SUBJECTED TO HEAT TREATMENT	IISc, BENGALURU	META
16	U DIVYA MADHURI	POLYMER METAL/SEMICONDUCTOR NANOCOMPOSITE THIN FILMS: CATALYSIS, ELECTROCATALYSIS AND FLUORESCENCE	UNIVERSITY OF HYDERABAD, HYDERABAD	NMAT
17	RAJI V NAIR	RAPID, ACID FREE SYNTHESIS OF GRAPHENE QUANTUM DOTS AS EXCELLENT FLUORESCENT PROBE FOR BIO-IMAGING AND ENVIRONMENTAL MONITORING	CSIR-NIIST, TVM	
18	BHUVANESWARI S	TAILORING THE MICROSTRUCTURE OF POLYURETHANE USING Ti2N (MXENE) FOR ENHANCED GAS BARRIER PROPERTIES	VSSC, TVM	
19	DEVIKA MUDUSU	ZNO NANOSTRUCTURES BASED FLEXIBLE DEVICES FOR ENERGY HARVESTING APPLICATIONS	SUNGKYUNKWAN UNIVERSITY, SUWON	

20	SINDHU SWAMINATHAN	INFLUENCE OF FILLERS ON THE CONDUCTIVITY AND TRANSPORT PROPERTIES OF POLYMER GEL ELECTROLYTES : EIS APPROACH	UNIVERSITY OF CALICUT, THENHIPALAM	PNB
21	MANOJ N . R	DESIGN OF L L E MATERIAL FOR UNDER WATER ACOUSTIC TRANSDUCERS	NPOL (DRDO), KOCHI	
22	MONISHA BABY	MUSSEL MIMICKING POLYMERS AS ADHESION PROMOTERS UNDER WET/ DRY CONDITIONS	VSSC, TVM	
23	ANJANA K . O	PHOSPHORUS CONTAINING POLYETHERS: SYNTHESSES, CHARACTERIZATION AND THEIR LITHIUM-ION CONDUCTIVITIES	UNIVERSITY OF HYDERABAD	
24	DR. ROYMON JOSEPH	FUNCTIONALIZED MACROCYLCES FOR ION/MOLECULAR DETECTION AND BIOLOGICAL APPLICATIONS	IIST, TVM	SEMAT
25	G. SURESH	ACOUSTIC LENS FOR SOUND FOCUSING UNDERWATER AT 500 KHZ	NPOL (DRDO), KOCHI	
26	NEEMA P .M.	ONE POT HYDROTHERMAL SYNTHEUM BASED NANOHYBRID MATERIAL AND ITS APPLICATION AS H2O2 SENSOR	IIST, TVM	
27	SHARMILI PANDIAN	VIBRATION ENERGY SUPPRESSION IN NANO PARTICLES SUSPENDED MAGNETO RHEOLOGICAL FLUIDS FOR AUTOMOBILE APPLICATION	KALASALINGAM ACADEMY OF RESEARCH AND EDUCATION,TAMILNADU	SMAT
28	K SURESH CHARY	PZT NANOFIBERS - RTV SILICONE ELASTOMER BASED NANO GENERATOR FOR ENERGY HARVESTING APPLICATION	NAVAL MATERIALS RESEARCH LABORATORY, AMBERNATH	
29	DEVI RENUKA KIZHISSERI	SUSTAINABLE ELECTRONIC MATERIALS: COUPLING OF CARBON NANOMATERIALS WITH AZOBENZENE MOLECULES DERIVED FROM CARDANOL FOR DEVELOPING OPTICALLY RESPONSIVE SMART MATERIALS	IIST, TVM	
30	SUCHAND SANGEETH	THE EFFECT OF TOPOGRAPHY OF THE BOTTOM ELECTRODE IN SELF-ASSEMBLED MONOLAYER (SAM)-BASED TUNNEL JUNCTIONS	NIT, CALICUT	EMAT
31	Dr. VINAYAKUMAR	HYDROGEN-BONDED STABILIZED D-A-D CONFIGURED CYANOPYRIDONE BASED COLUMNAR MESOGENS FOR OLED APPLICATIONS	NITK, INDIA	

32	ANIRBAN CHAKRABORTY	TRANSPARENT CONDUCTING P-TYPE NICKEL OXIDE THIN FILMS VIA A TWO-STEP SYNTHESIS ROUTE	IIT MADRAS	
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**Day 3: October 13, 2018**

33	PRAVEEN WILSON	CONDUCTING CARBON FOAM AS HOST FOR PHASE CHANGE MATERIALS	IIST, TVM	AEMAT
34	SARAH ULAETO	GREEN NANOCOMPOSITE FOR CORROSION PROTECTION OF AL-MG-SI ALLOY	CSIR-NIIST, TVM	
35	HANNA J. MARIA	MORPHOLOGICAL, MECHANICAL AND BARRIER PROPERTIES OF POLYMER COMPOSITES AND NANOCOMPOSITES	M G UNIVERSITY, KOTTAYAM	NMAT
36	R. NARASIMMAN	NANOSTRUCTURED MoS <sub>2</sub> COATING ON GRAPHENE PROTECTED NICKELI FOAM FOR HYDROGEN EVOLUTION REACTION	PANDIT DEENDAYAL PETROLEUM UNIVERSITY, GANDHINAGAR	
37	TANUSHREE CHOUDHURY	ROLE OF GRAFTED TITANIA PILLARED CLAY MEMBRANES IN DEGRADATION OF ORGANIC POLLUTANTS IN WASTEWATER	VIT CHENNAI	PNB
38	SAUMYA KRISHNAN	POST ÅC“ SYNTHETIC MODIFICATION OF FLUORENONE BASED POROUS ORGANIC POLYMERS FOR CARBON DIOXIDE CAPTURE	UNIVERSITY OF KERALA, TVM	
39	SAJENA K. S.	DNA THREE-WAY JUNCTION TEMPLATED FLUORESCENT SILVER NANOCLUSTERS: A SELECTIVE LABEL FREE SENSOR FOR MERCURY (II) IONS	CSIR-NIIST, TVM	SEMAT
40	ANNADURAI THAMILSELVAN	CARBON BLACK/F-MWCNT COMPOSITE MODIFIED GC ELECTRODE FOR HIGHLY SENSITIVE ELECTROCHEMICAL DETECTION OF BISPENOL A	CSIR-CECRI, KARAIKUDI	