

ICAMST – 2024 Session Plan

29/07/2024 Monday	10:05 AM to 10:30 AM	Dr. Parthasarathi Hans , GTRE-DRDO, Bangalore Advanced Materials and Processes for Aero Gas Turbine Engine
29/07/2024 Monday	11:30 AM to 13:00 AM	Prof. Bikramjit Basu , IISc, Bangalore
29/07/2024 Monday	02:00 PM to 02:45 PM	Dr. Debdatta Ratna , NMRL-DRDO, Ambernath Polymer Matrix Composites for Naval Applications
29/07/2024 Monday	04:00 PM to 04:45 PM	Prof. Kevin Hemker , Johns Hopkins University, USA Making and Characterizing Ultrahigh Temperature Materials for use in Extreme Environments
30/07/2024 Tuesday	09:30 AM to 10:15 AM	Dr. Manmeet Kaur , BARC, Mumbai Materials for Gas Sensors
30/07/2024 Tuesday	02:00 PM to 02:45 AM	Dr. Andi Udayakumar , CSIR-NAL, Bangalore Continuous Fibre Reinforced Ceramic Matrix Composites for Strategic Applications
30/07/2024 Tuesday	02:45 PM to 03:30 PM	Prof. Suhasini Gururaja , Auburn University, Alabama, USA Accelerated Fatigue Testing of Aerospace Composites
31/07/2024 Wednesday	09:30 AM to 10:15 AM	Prof. Katsuya Inoue , Hiroshima University, Japan How to use Chirality for future Materials & Technology
31/07/2024 Wednesday	10:15 AM to 11:00 AM	Dr. Harish C. Barshilia , CSIR-NAL, Bangalore Surface Modification Technologies for Engineering Applications
31/07/2024 Wednesday	04:00 PM to 04:30 PM	Dr. Kishora Shetty , Boeing, Bangalore

29th July 2024 (Monday) Inauguration: 0930-1100 Hrs (IST) (RMC Council Hall, RUAS)		
Inaugural Address	1005-1030 Hrs (IST)	Dr. Parthasarathi Hans , GTRE-DRDO, Bangalore
Coffee Break: 1100-1130 Hrs (IST)		
Keynote Address	1130-1300 Hrs (IST)	Prof. Bikramjit Basu , IISc, Bangalore
Lunch: 1300-1400 Hrs (IST)		
Invited Talk	1400-1445 Hrs (IST)	Dr. Debdatta Ratna , NMRL-DRDO, Ambarnath Polymer Matrix Composites for Naval Applications
	1445-1525 Hrs (IST)	Theme 1: Biomaterials
		Chairs: Dr. Rajnikanth Dr. Parasuraman
	1445-1455 Hrs	Amulya. V <i>Comparative evaluation of anti-microbial efficacy of Ocimum sanctum (Tulsi) extract, Ocimum sanctum with silver nanoparticles and 0.12% chlorhexidine: An invitro study.</i>
	1455-1505 Hrs	Prashant R <i>PEG Assisted One-pot Synthesis of 5-(5-bromo-2-hydroxyphenyl)-4-substituted-1,2,4-triazolidine-3-thione and their Biological Activity</i>
	1505-1515 Hrs	Sagarika Yadav <i>Modified Endodontic Bioceramic sealer comprising Gold Nanoparticles and PiPAAm for enhanced antibacterial ability against Enterococcus Faecalis</i>
	1515-1525 Hrs	Chatura Mohan <i>A Novel Intracanal Medicament based on Cissus Quadrangularis For Endodontic Disinfection</i>
	1525-1535 Hrs	Lalitha S Jairam <i>Development and characterization of a nanocrystalline cellulose-based film to combat the staining potential of Silver Diamine Fluoride</i>
Coffee Break: 1535-1600 Hrs		
Invited Talk	1600-1645 Hrs (IST)	Prof. Kevin Hemker , Johns Hopkins University, USA Making and Characterizing Ultrahigh Temperature Materials for use in Extreme Environments
Dinner: 1830-2030 Hrs (Dwaraka Hall)		

30th July 2024 (Tuesday) (Faculty of Pharmacy Halls, RUAS)				
Invited Talk	0930-1015 Hrs (IST)	Dr. Manmeet Kaur, BARC, Mumbai Materials for Gas Sensors		
Coffee Break: 1015-1040 Hrs (IST)				
	1045-1300 Hrs	Theme 1: Biomaterials	Theme 2: Structural Materials	Theme 3: Sustainable Materials
		Chairs: Dr. Prashanth Dr. Sandhya	Chair: Dr. Dayananda BS	Chair: Dr. Nayana Patil
	1045-1055	Nirajita Bhaduri Effect Of Surface Characteristics On Streptococcus Mutans Adhesion On Nickel Titanium (Niti) And Coaxial Stainless Steel Archwires - A Comparative Prospective Study	K C Devendrappa Experimental Investigation of Vibration Characteristics of Wood Polymer Composites of Different Composition Using FFT Analyze	Jayalekshmi Babu Efficient CO2 Capture: Activated Porous Carbon from D-Glucose with Non-Corrosive Activating Agent
	1055-1105	M K Akhila Bridging the gap between phytopharmaceuticals and periodontology Coleus amboinicus as a potential topical treatment modality	Niteesh Halagatti Comparative study of nuclear containment structure subjected to lateral loads with different support conditions. Fixed support, Isolated Support and Soil Interactive Support	Raga K Pavithran Enhancing Pest Control Sustainability: Ligno- Alginate Blend for Controlled Pyrethrin Release
	1105-1115	Kulkarni Radhika Ashok Evaluation of Cynadon dactylon Gel as an Avulsion Medium: An In Vitro Study	M. Shakthi Prasad A Study on Enhancing the Strength of Glass Fiber Reinforced Polymer (GFRP) Composites using Multi- Walled Carbon Nano Tubes (MWCNT)	
	1115-1125	Harshini P Characterization of a Novel Drug Delivery System to Enhance Regeneration in Endodontics	Subha S Enhancing ballistic impact performance of natural fiber reinforced composites with natural fillers	
	1125-1135	Tanya Singh Gas Chromatography Analysis Of Bioactive Compounds From Sargassum Wightii Extract For Periodontal Therapy	Harish Assessment of TiO2/SiO2 for UV	
	1135-1145	Minati Jain Comparison and evaluation of antibacterial efficacy and	Harish Antireflection coating	

		<i>biocompatibility of Pongamia pinnata leaves extract – An in vitro study</i>		
	1145-1155	Aashli Mary <i>Release Mechanisms of Montelukast Sodium from Transdermal Films Based on Sodium Alginate and Lignosulphonic Acid</i>		
	1155-1205	Athira K <i>Magnetically Targeted Drug Delivery of Levodopa in Parkinson's Disease using Magnetite loaded ligno-alginate</i>		
	1205-1215	Greeshma C <i>Formulation and characterization of a novel drug delivery vehicle with bovine serum albumin and collagen</i>		
	1215-1225	Soumya N Sajjan <i>Knocking on Nature's Door - An invitro validation of Convolvulus Prostratus as an anti-inflammatory agent</i>		
	1225-1235	C. Raksha <i>Decoding Anti-Diabetic Potential of Isatin Schiff Bases via In Silico Analyses</i>		
	1235-1245	Ronisha Ramamurthy <i>Glycosylated Mesoporous Silica Nanoparticles Loaded with Lapatinib for Breast Cancer Therapy</i>		
	1245-1255	Eliza Ahmed <i>Alpha amylase inhibitory and radicals (DPPH & ABTS)Scavenging potentials of synthesised thiazole fused benzimidazole analogues</i>		
Lunch: 1300 – 1400hrs				
Invited Talk	1400-1445 Hrs (IST)	Dr. Andi Udayakumar, CSIR-NAL, Bangalore Continuous Fibre Reinforced Ceramic Matrix Composites for Strategic Applications		
	1445-1530Hrs (IST)	Prof. Suhasini Gururaja, Auburn University, Alabama, USA Accelerated Fatigue Testing of Aerospace Composites		
Coffee Break: 1530-1600 Hrs				
Poster Session: 1600 – 1730hrs				

31st July 2024 (Wednesday) (Faculty of Pharmacy Halls, RUAS)				
Invited Talk	0930-1015 Hrs (IST)	Prof. Katsuya Inoue, Hiroshima University, Japan How to use Chirality for future Materials & Technology		
	1015-1100 Hrs (IST)	Dr. Harish C. Barshilia, CSIR-NAL, Bangalore Surface Modification Technologies for Engineering Applications		
Coffee Break: 1015-1040 Hrs (IST)				
	1045-1300 Hrs	Theme 1: <i>Biomaterials</i>	Theme 4: <i>Electronics and Energy Materials</i>	Theme 6: <i>Computational Materials</i>
		Chairs: Dr. Baba Shankar Dr. Judy Jays	Chairs: Dr. Ravi Kumar BS Dr. Anil Kumar	Chairs: Dr. Sivapragasam Dr. Deepak
	1045-1055	C. Raksha <i>Decoding Anti-Diabetic Potential of Isatin Schiff Bases via In Silico Analyses</i>	K R Sreedevi <i>Synthesis and characterization of Molybdenum trioxide by Hydrothermal method</i>	Urjit Parab <i>Prediction of Equivalent Plastic Strain in Cold Spray Process Using Feedforward Artificial Neural Network</i>
	1055-1105	Ronisha Ramamurthy <i>Glycosylated Mesoporous Silica Nanoparticles Loaded with Lapatinib for Breast Cancer Therapy</i>	Apoorva Kaul <i>Thermal stability of the magnetic tunnel junction stack and their magnetic properties</i>	S. Sharika <i>SPT based Liquefaction prediction of soils employing AI techniques</i>
	1105-1115	Eliza Ahmed <i>Alpha amylase inhibitory and radicals (DPPH & ABTS)Scavenging potentials of synthesised thiazole fused benzimidazole analogues</i>	Gopika C T <i>Optimization for Soft Magnetic Properties of [NiFe/Ta]_n Multilayer for Magnetic Flux Concentrator</i>	Sivaranjani Gali <i>Influence of Grading and Layer Thickness on Stress Distribution in Dental Ceramics - A Finite Elemnet Analysis</i>
	1115-1125	Akshitha HM <i>Comparison of the retentive properties of a removable partial denture clasp fabricated by 3-D Printing and laser sintering -An Vivo Study</i>	Vishnu S <i>Graphene Nanoplatelets Based Material for Energy Storage Application</i>	Selvi V <i>Comparative 3D Finite Element Analysis of Stress Distribution and Displacement Patterns in Craniofacial Structures using Hyrax and MEMORAX Maxillary Expansion Appliances</i>
	1125-1135	Sophia Saud <i>Comparative Study of Proliferative Effect of Human Adult Peripheral and Umbilical Cord Blood Platelet-Rich Fibrin enhanced with Gold Nanoparticles on Human Dental Pulp Stem Cells.</i>	Gokul Raj <i>A novel electrochemical high-performance non-enzymatic glucose sensor based on Face-centred cubic FeCoNiMnCr high entropy nano alloys grafted NCNTs</i>	
	1135-1145	Aishwarya S Assessment of silk fibroin and chlorhexidine blend film as adjunct to non-	Veena Venugopal <i>Microwave Characterization of NCQD-RGO Composites</i>	

		surgical periodontal therapy- A randomized control trail	<i>using Rectangular Waveguide Transmission Techniques for Stealth Application</i>	
	1145-1155	Chatura Mohan <i>Effect of accelerated aging on colour stability of single shade dental</i>	Aarushi Ahlawat <i>Tailored Microwave Absorption Properties of BiFeO₃/Carbon Black Composite in GHz range</i>	
	1155-1205	Ayesha Najam <i>Formulation and Characterization of a Novel Pulp Capping Agent– An In Vitro Study</i>	V Arun Kumar Optical and physical propertied of BiCl ₃ and Er ₂ O ₃ doped glass systems	
	1205-1215	Akhil G. Egg shell Biowaste as an Alternative Graft Material for Bone Regeneration	Chrisma Rose Babu <i>Investigation on the Electrochemical Performance of Manganese Oxide Nanoparticles for Supercapacitors</i>	
	1215-1225	Arbiya Anjum <i>Evaluation of Platelet Rich Fibrin with Biodentine in Direct Pulp Therapy of Permanent teeth - An In Vivo Study</i>	Harshitha. N <i>Synthesis and Characterization of Zinc Vanadate for Supercapacitor Application</i>	
	1225-1235	G. Dhananjaya <i>Insilco Analysis Of Compounds Isolated From Mulberry Plant Source For Anticariogenicity</i>	Ansil M Magnetic properties of hard (SrAl _{0.5} Fe _{11.5} O ₁₉) and soft (Co _{0.8} Zn _{0.2} Fe ₂ O ₄) ferrites composites derived from nanopowders	
	1235-1245	Dhanya Shri M <i>Lemongrass oil Infused Dental Wafers: A Natural Shield against Oral Pathogens</i>	Manju Bala <i>Composite of carbonyl iron and silicon carbide for improved electromagnetic properties in X-Band</i>	
	1245-1255	Desai Simran Prakash <i>Bioactive Botanicals: Evaluating Cynodon Dactylon's Antioxidant Role in Intracanal Treatments</i>		
	1255-1305			

Lunch: 1300 – 1400hrs		
	1430 - 1600	Dr. Kishora Shetty, Boeing, Bangalore Valedictory Address
		Distribution of Certificates
High Tea: 1600-1630 Hrs		

30th July 2024 (Tuesday) – Online Sessions (Faculty of Pharmacy Halls, RUAS)		
		Chair: Dr. Mallikarjunaiah K J
	1130-1145	Roopa N <i>Evaluation of Antimicrobial Effect of Osteopontin Against Caries Causing Bacteria</i>
	1145-1200	Rebika Baruah <i>Biopolymer-Based Plant Extracts Mediated-Silver Nanoparticles as Antibacterial Dressing</i>
	1200-1215	Subingya Pandey Microstructural, Tribological, and Biological Performance of KNN-HAP Composite Coatings for Orthopedic Implants
	1215-1230	M Durga Ganesh <i>In-depth Investigation of Potassium Tantalum niobate: Unlocking Structural Insights and Biocompatible Features for Advanced Applications</i>
	1230-1245	Amrutha Rao <i>Papilla Reconstruction With Titanium-Prepared Platelet-Rich Fibrin: A Case Report And Literature Review</i>
	1245-1300	Tejaswini Gawade <i>Development of linear bipolar and non-hysteretic Spin Valve GMR sensor</i>
31st July 2024 (Wednesday) – Online Sessions (Faculty of Pharmacy Halls, RUAS)		
		Chair: Dr. Suresh R
	1130-1145	H. M. Shashanka <i>Cu-substituted Y3Fe5O12: New ceramic based magnetic catalysts for conversion of para-nitrophenol to para-aminophenol under mild reaction conditions</i>
	1145-1200	Suma Jebin <i>Comparative Study of Synthesis Methods of All Inorganic Lead-Free Bromide Perovskite</i>
	1200-1215	Anamika Tiwari <i>Modelling & Analysis Of CNC Turning Process Of SKD 11 Workpiece Using Ansys Software</i>
	1215-1230	Indu Elizabeth <i>Leveraging AI and ML for Real-Time Aircraft Corrosion Detection</i>
	1230-1245	Vardhanapu Uttej <i>Mechanical Behavior Of Lightweight Sandwich Structures Having Different Core Shapes Produced By Additive Manufacturing</i>
	1245-1300	Rinku Malhi <i>Synthesis, Characterization and Anti-tubercular activity of Cobalt (II) Complexes of isatin and indole derivatives</i>
	1300 - 1315	Swapna Gijare <i>Comparative Study of Synthesis Methods of All Inorganic Lead-Free Bromide Perovskite</i>