



SSES 2022

National Conference on

**Science for
Society**

**Environment and
Sustainability**



24 – 26 November 2022

CSIR-NEIST Jorhat

FINAL AGENDA

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Organized by: CSIR-North East Institute of Science & Technology, Jorhat

DETAILED AGENDA

DAY 1 | Thursday, 24 November 2022

TIME		
08:00 – 09:30	REGISTRATION	Venue: In Front of JNB Auditorium
09:30 – 11:00	INAUGURAL SESSION	Venue: JN Baruah Auditorium
	<p>Welcome Address: Dr G Narahari Sastry, Director CSIR-NEIST Speech by Chief Guest: Prof. Alak Kumar Buragohain, Chairperson-Academic, Royal Global University, Guwahati Speech by Guest of Honor: Prof. D S Rawat, Delhi University Prof. T Punniyamurthy, IIT Guwahati</p>	
	RELEASE OF SOUVENIR	
11:00 – 11:30	HIGH TEA	
11:30 – 13:00	TECHNICAL SESSION-I	Venue: JN Baruah Auditorium
	Chair:	
11:30 – 12:15	<p>Planery Talk-I: Development of clinical candidate for the treatment of Parkinson disease Speaker: Dr D S Rawat, Professor, Delhi University</p>	
12:15 – 12:45	<p>Keynote Lecture-I: Click Chemistry: In Presence/Absence of Copper Speaker: Dr Diganta Sarma, Professor, Dibrugarh University</p>	
12:45 – 13:00	<p>OP-02: Surface Complexed Quantum Dots for White Light Emission and Sensing Applications Dr Sabyasachi Pramanik, Assam Energy Institute, Center of Rajiv Gandhi Institute of Petroleum Technology, Sivasagar</p>	
13:00 – 14:00	LUNCH BREAK	
14:00 – 16:00	TECHNICAL SESSION-II	Venue: JN Baruah Auditorium
	Chair:	
14:00 – 14:30	<p>Keynote Lecture-II: Utilizing waste plastic for pollution remediation, and oxygen cum solar energy harvesting Speaker: Dr Ujjal K Gautam, Assoc. Professor, IISER Mohali</p>	
14:30 – 15:00	<p>Keynote Lecture-X: Regioselective Functionalization and Synthesis of Medicinally Important Heterocyclic Scaffolds Speaker: Dr T Punniyamurthy, Professor IIT Guwahati</p>	
15:00 – 15:15	<p>OP-03: Palladium (II) complex functionalized ZnS quantum dot: A promising fluorescent probe for selective detection of pyrophosphate anion Dr Madhulekha Gogoi, CSIR-North East Institute of Science and Technology, Jorhat</p>	
15:15 – 15:30	<p>OP-04: Assessment of Precipitation as Arsenic Immobilization Technique in a Typical Oxidizing Groundwater Dr Jacklin Jeke Nilling, Indian Institute of Technology Kanpur</p>	
15:30 – 15:45	<p>OP-07: Green synthesis of electrode for electro-oxidative remediation of emerging pollutant in wastewater Dr Arun Kumar, Assam Energy Institute, Center of Rajiv Gandhi Institute of Petroleum Technology, Sivasagar</p>	
15:45 – 17:00	POSTER SESSION-I (Inauguration of Poster Hall)	Venue: Poster Area
	Poster No: PP-1 to PP-55	
18:00 – 20:00	CULTURAL PROGRAM (by Invited Artists)	Venue: Open Air Stage
20:00 – 21:00	DINNER	

DAY 2 | Friday, 25 November 2022

TIME		
09:00 – 10:45	TECHNICAL SESSION-III	Venue: JN Baruah Auditorium
	Chair:	
09:00 – 09:30	Keynote Lecture-IV: Organic-Solvent-free Oxidations over Eco-Friendly Niobium and Tantalum Based Heterogeneous Catalysts: A Sustainable Approach Speaker: Dr Nashreen Islam , Professor, Tezpur University	
09:30 – 10:00	Keynote Lecture-V: Expanding the Medicinal Chemistry Toolbox: From Method Development to Delivery of Drug Like Molecules Speaker: Dr Parthasarathi Das , Assoc. Professor, IIT(ISM) Dhanbad	
10:00 – 10:30	Keynote Lecture-VI: Task specific modification of cobalt ferrite magnetic nanoparticles for catalytic applications Speaker: Dr Prodeep Phukan , Professor, Gauhati University	
10:30 – 11:00	TEA BREAK	
11:00 – 13:00	TECHNICAL SESSION-IV	Venue: JN Baruah Auditorium
	Chair:	
11:00 – 11:30	Keynote Lecture-VII: 1,1-diaminoazines in Sustainable Chemistry Speaker: Dr Prasad V Bharatam , Professor, NIPER Mohali	
11:30 – 12:00	Keynote Lecture-IX: Robust and Promising Hydrogen and Oxygen Evolution Reaction by Nanostructured Electrocatalyst Speaker: Dr Sasanka Deka , Assoc. Professor, Delhi University	
12:00 – 12:30	Keynote Lecture-VIII: Catalyst Design for In-Situ Oxidation of C2 and C3 Alcohols and their Application for the Synthesis of β -Aryl Enals, Enones Speaker: Dr Kusum Kumar Bania , Assoc. Professor, Tezpur University	
12:30 – 12:45	OP-10: Amino-functionalized Magnetite Nanosorbents for the removal of heavy metal ions from Water Dr Yana Bagbi , Jawaharlal Nehru College, Pasighat, Arunachal Pradesh	
12:45 – 13:00	OP-11: Potential Role of Chloride in Controlling Arsenic Speciation under Ambient Conditions Akshat Verma , Indian Institute of Technology, Kanpur	
13:00 – 14:00	LUNCH BREAK	
14:00 – 16:00	TECHNICAL SESSION-V	Venue: JN Baruah Auditorium
	Chair:	
14:00 – 14:30	Keynote Lecture-III: A pivotal role of CAN in the synthesis of aryl nitriles Speaker: Dr Utpal Bora , Assoc. Professor, Tezpur University	
14:30 – 15:00	Keynote Lecture-XI: Hydrogenated Vegetable Oils and Insights on Alternative Oils Speaker: Dr Dandamudi Usharani , Principal Scientist, CSIR-CFTRI	
15:00 – 15:15	OP-06: Influence of Orography on Rainfall Characteristics of Northeast India and Its Importance in Climate Modelling Studies Dr Jayshree Hazarika , National Institute of Technology Silchar, Assam	
15:15 – 15:30	OP-08: Glucose-Sensitive Delivery of Vitamin D by Dextran-gated Multi-Functional Mesoporous Silica Nanoparticles to Mitigate Hyperglycemia Dr Prasenjit Manna , CSIR-North East Institute of Science and Technology, Jorhat	
15:30 – 15:45	OP-09: Risk Assessment & Stability Analysis of Narendra Nagar Landslide at Uttarakhand, India Ashish Pippal , CSIR- Central Building Research Institute, Roorkee	
15:45 – 17:00	POSTER SESSION-II	Venue: Poster Area
	Poster No: PP – 56 to 108	
18:00 – 20:00	CULTURAL PROGRAM (by Students)	Venue: Open Air Stage
20:00 – 21:00	DINNER	

DAY 3 | Saturday, 26 November 2022

TIME		
09:00 - 11:00	TECHNICAL SESSION-VI	Venue: JN Baruah Auditorium
	Chair:	
09:00 - 09:30	Keynote Lecture-XII: Defect Engineering in Metal–Organic Frameworks for Renewable Hydrogen Stream by Water Splitting Speaker: Dr Ujjwal Pal , Senior Principal Scientist, CSIR-IICT Hyderabad	
09:30 - 10:00	Keynote Lecture-XIII: Designing Metallic Clusters as Energy Storage Material Speaker: Dr Ankur K Guha , Asst. Professor, Cotton University	
10:00 - 10:15	Industry Talk (Biologics)	
10:15 - 10:30	OP-01: Repercussions of Natural Disasters in North East India – A Review Dipak Basumatari , CSIR-North East Institute of Science and Technology, Jorhat	
10:30 - 10:45	OP-05: Assessment, Repair and Rehabilitation of 60-Year-Old CSIR NEIST Buildings- A Case Study Dr Leon Raj J , CSIR-North East Institute of Science and Technology, Jorhat	
10:45 - 11:00	OP-12: Direct Liquefaction of Electronic Waste Plastics and Process Simulation using Aspen Plus Simulator Shekhar Jyoti Pathak , Indian Institute of Technology, Guwahati	
11:00 - 11:30	TEA BREAK	
11:30 - 12:30	VALEDICTORY SESSION	Venue: JN Baruah Auditorium
	Chief Guest: Dr DC Deka , VC, Madhabdev University	