

December 21, 2021, Tuesday (Day 1) ICS Head office



December 22, 2021, Wednesday (Day 2) Environmental Chemistry Section

https://meet.google.com/ugu-anjk-fzd

IIT Ropar, Punjab

[Scientist-in-Charge: Dr. Sanjeev S. Katti, Former DG, ONGC Energy Centre, Delhi

Co-Conveners: Dr. Debaprasad Mandal, IIT Ropar; Prof. Praveen Ramamurthy, IISc Bangalore;

Dr. Sharad Lande, Reliance Industries Ltd.]

9.35-	Welcome address by Prof. Rajeev Ahuja, Director IIT Ropar
9.45	
9.45-	Introductory Remarks by Dr. Sanjeev S. Katti, Scientist-in-Charge, "Environmental Chemistry"
9.50	&
	Department overview by HoD Chemistry, IIT Ropar
	SESSION 1 (09:50-11:50)
	Chair: Dr. Tharamani CN, IIT Ropar
9.50-	Plenary Lecture (PL-1)
10.30	Prof. Rajeev Ahuja, Director, IIT Ropar
	Title: Advanced Modelling of Materials for Clean Energy Applications: hydrogen storage materials
	and next-generation batteries
10:30-	Plenary Lecture (PL-2)
11.10	Prof. Sanjay Mandal, IISER Mohali
	Title: Smart Nanomaterials for Energy and Environment Applications
11:10-	Endowment Lecture
11.50	Dr. Asit Baran Panda, CSIR-NML (National Metallurgical Laboratory) Jamshedpur
	Title : Design and synthesis of efficient TiO ₂ based catalysts for visible light induced photocatalytic
	reaction
	SESSION 2 (11:50-13:55)
	Chair: Dr. Sumeet Sharma General Manager (R&D) Reliance Industries Ltd.
11:50-	Invited Lecture (IL-1)
12:40	Mr. Pradip Hosangadi, M/s Evonik Catalysts India
	Dr. Guillaume Vincent, France, M/s Evonik Catalysts
	Title : Topic 1: How Excel Rejuvenation is supporting the circular economy?
	Mr. Nirav Shah, M/s Evonik Catalysts, Woodlands, Texas
	Title : Topic 2: How Evonik's technology/catalyst solutions can help refineries/re-refineries to
	contribute towards sustainable society/circular economy?
12:40-	Invited Lecture (IL-2)
13:15	Prof. Satish Patil, IISc Bangalore
	Title: Organic Solar Cells: Essential Partners on the Road to Net Zero
13:15-	Plenary Lecture (PL-3)
13:55	Dr. Sandip Chatterjee, Scientist and Director, Ministry of Electronics and IT
	Title : Sustainable Environment friendly Printed Circuit Board recycling through pyro-metallurgy
	method
	Lunch BREAK (13:55 - 14:20)
	SESSION 3 (14:20-16:30)

Chair: Dr. Sanjib Patra, IIT Kharagpur

14.20	
14:20-	Plenary Lecture (PL-4)
15:00	Prof. Riitta Keiski, Professor & Dean, University of Oulu, Finland
	Title : Chemistry and Engineering enabling the Energy transition – The role of Catalysis in fostering Sustainability
15:00-	Plenary Lecture (PL-5)
15:40	Prof. Tapas Kumar Maji, JNCSR Bangalore
13.40	Title: Coordination Driven Supramolecular Metal-Organic 'Soft' Hybrid Nano-catalysts
15:40-	Plenary Lecture (PL-6)
16:20	Prof. Ashim Chowdhury, Emeritus Fellow, Calcutta University. Former Acharya P.C Ray Professor
10.20	Title: Advancement of Agrochemicals & Impact on Environment under present perspective
16:20-	Oral Lecture (OL-1)
16:30	Ms. Sukhjot Kaur, IIT Ropar
	Title: Reducing the impact of CO ₂ emissions in environment by electrochemical reduction to value-
	added methanol
	BREAK (16:30-16:40)
	SESSION 4 (16:40-18:35)
	Chair: Dr. Sharad Lande, Reliance Industries Ltd
16:40-	Plenary Lecture (PL-7)
17:20	Prof. Rajnish Kumar, IIT Madras
	Title: Chemistry of gas hydrates and how one may use it for innovative solution
17:20-	Invited Lecture (IL-3)
17:55	Dr. Debabrata Patra, INST Mohali
	Title: Self-powered Supramolecular Assembly- A Tale of Chemical Powered Motion
17:55-	Oral Lecture (OL-2)
18:05	Mr. Mukesh Kumar, IIT Ropar
	Title : High-performance and environment benign aqueous rechargeable sodium-ion/sulfur batteries
18:05-	Oral Lecture (OL-3)
18:15	Ms. Amreen K. Bains, IISER Mohali
	Title : Bioinspired radical-mediated transition-metal-free synthesis of N-heterocycles under visible light
18:15-	Oral Lecture (OL-4)
18:25	Mr. Gaje Singh, IIT Ropar
10.05	Title: Persubstituted imidazolium-based alkaline anion exchange membrane for solid-state Zn-air batteries
18:25-	Oral Lecture (OL-5) Mr. Ranadip Goswami, CSMCRI Bhavnagar
18:35	Title: High-Performance Water Harvester Framework for Triphasic and Synchronous Detection of Assorted
	Organotoxins with Site-Memory-Reliant Security Encryption via pH-Triggered Fluoroswitching
	BREAK (18:35-18:40)
	,
	SESSION 5 (18:40-20:20) (EVENING SESSION 1)
	Chair: Dr. Subhadip Neogi, CSMCRI Bhavnagar
18:40-	Oral Lecture (OL-6)
18:50	Mr. Ganga Singh, IIT Ropar
10.70	Title: Polyoxometalates based electron transfer modulation for artificial photosynthesis
18:50-	Oral Lecture (OL-7)
19:00	Mr. Rajesh Das, IIT Ropar Title : Construction of Mg(II)-Organic Frameworks for Efficient Chemical Fixation
	of CO ₂ From Direct Air Under Environment-Friendly Mild Conditions
19:00-	Oral Lecture (OL-8)
19:00-	Mr. Pradeep Tripathi
17.10	Title: Analysis of Heavy Metals in Seed Oil of Citrullus Lanatus Plant From Arid Zone of Western
	Rajasthan
19:10-	Oral Lecture (OL-9)
17.10-	Oth Decemb (OL 7)

19:20	Mr. Man Singh, IIT Ropar
	Title: Bimetallic transition metal phosphide/phosphate for the high-performance aqueous battery
	supercapacitor hybrid
19:20-	Oral Lecture (OL-10)
19:30	Mr. Ribhu Maity, Mugberia Gangadhar Mahavidyalaya, Purba Medinipur
	Title : Photodegradation of Methylene Blue by Cu(II) complexes with NNN and NNO Schiff Base
	ligands under sunlight irradiation
19:30-	Oral Lecture (OL-11)
19:40	Dr. Milan Hait, Raman University, Kota, Bilaspur
	Title: Bioremediation of water pollutants from the effluents of Sirgitti Industrial area in Bilaspur (C.G.)
19:40-	Oral Lecture (OL-12)
19:50	Ms. Shehala Siddique, University of Allahabad
	Title: Rapid and selective sensing of Saccharin through interference synthesis of Gum Ghatti
	capped Silver Nanoparticles
19:50-	Oral Lecture (OL-13)
20:00	Dr. Sameer Vyas, Central Soil and Materials Research Station, New Delhi
	Title : Influence of Aggressive Chemical Environment on the long term Durability of hydropower
	structures and alternative remedial Measures
20:00-	Oral Lecture (OL-14)
20:10	Mr. Madhu K. N., Tontadarya College of Engineering Gadag
	Title: Groundwater Quality Assessment for Drinking Purpose Using WQI in and around Koppal
	City, Karnataka State, India
20:10-	Oral Lecture (OL-15)
20:20	Dr. Jalaj Tripathi Devgan,
	Title: xxx

December 23, 2021, Thursday (Day 3) **Environmental Chemistry Section**

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IIT Ropar, Punjab

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Dr. Sharad Lande, Reliance Industries Ltd.]

	SESSION 6 (09:30-11:40)
	Chair: Prof. Sanjay Mandal, IISER Mohali
9:30-	Plenary Lecture (PL-8)
10:10	Dr. Nitin Labhsetwar, CSIR NEERI, (National Environmental Engineering Research Institute) Nagpur
	Title: Low-cost Materials for Cleaner Energy and Environmental Applications
10:10-	Plenary Lecture (PL-9)
10:50	Dr. Santanu Dasgupta, Senior Vice President (R&D), Reliance Industries Ltd. Mumbai
	Title : Sustainable production of food, feed, advance biomaterials and energy through Green
	Synthetic Biology
10:50-	Invited Lecture (IL-4)
11:25	Dr. Vitthal G. Gund, Vice President & Head-R&D, Navin Fluorine International Limited
	Title : Applications of Green Technologies in Fluorine Chemistry for Sustainable Growth

11.05		
11:25-	Invited Lecture (IL-5)	
12:00	Dr. Swapan Ghosh, Nova Surface-Care Centre Pvt.	
	Title : Designing of Temperature Responsive Wettability by Simple Physical Blending of Polymers and Functional nano-micro fillers	
	and Functional nano-inicro iniers	
	BREAK (12:00-12:10)	
	SESSION 7 (12:10-14:05)	
	Chair: Dr. Anupam Bandyopadhyay, IIT Ropar	
12:10-	Plenary Lecture (PL-10)	
12.50	Prof. Amitava Das, IISER Kolkata	
12.50	Title: Molecular Assemblies and Nano-aggregates for Imaging or Theranostic Applications	
12.50- 13.30	Plenary Lecture (PL-11) Dr. Yogendra Shastri, Chemical Engineering, IIT Bombay	
13.30	Title: Sustainable Valorization of Sugar Industry Waste: Green Chemistry to Sustainable	
	Engineering	
13:30-	Invited Lecture (IL-6)	
14.05	Dr. Ankur Bordoloi, CSIR – Indian Institute of Petroleum, Dehradun	
	Title: Mitigation of Green House Gases for commodity chemicals	
	Lunch BREAK (14:05 - 14:20)	
	SESSION 8 (14:20-16:25)	
	Chair: Dr. Debabrata Patra, INST Mohali	
14.20		
14:20- 15:00	Plenary Lecture (PL-12) Dr. Vijay G. Habbu, superannuation Adjunct Professor, ICT, Mumbai	
13:00	Title: The wonder material Plastics – at the crossroads of Sustainability	
15:00-	Invited Lecture (IL-7)	
15:35	Dr. Venkat Krishnan, IIT Mandi	
	Title: Strategic Design and Development of Nanostructured Heterogeneous Catalysts for Clean	
	Energy and Environmental Applications	
15:35-	Invited Lecture (IL-8)	
16:10	Dr. Sanjib Patra, IIT Kharagpur	
	Title : Designing multifunctional arylene-vinylene terpyridyl conjugates for detection of	
16.10	environmentally concerned analytes Invited Lecture (IL-9)	
16:10- 16:45	Dr. Bama Prasad Bag, CSIR-IMMT Bhubaneswar	
10.43	Title: Xanthene derivatives for selective detection of Organophosphates	
16:45-	Oral Lecture (OL-16)	
16:55	Mr. Nilanjan Seal, CSMCRI Bhavnagar	
	Title : Chemo-robustand bi-functional MOF with divergent open Co(II)-nodes for cooperative	
	deacetalization-Knoevenagel condensation and mild-condition tandem CO ₂ fixation	
16:55-	Oral Lecture (OL-17)	
17:05	Mr. Subhadeep Biswas, IIT Kharagpur	
	Title : Application of alginate and alginate bentonite hydrogel bead supported zero-valent iron (ZVI)	
45.00	catalyst for 4-nitrophenol reduction	
17:05-	Oral Lecture (OL-18)	
17:15	Dr. Gourisankar Roymahapatra, Haldia Institute of Technology, West Bengal	
	Title : In silico investigation of Hydrogen adsorbtion efficiency of [Oxadiazole- mLi+] complexes (m	
	= 1, 2); in pursuit of green fuel storage BREAK (17:15-17:25)	
	· · · · ·	
	SESSION 9 (17:25-18:50)	
	Chair: Dr. Debashis Adhikari, IISER Mohali	

17.35 Mr. Vishram D. Hiremani, Karnataka University Title: Preparation and Physicochemical Assessment of Bioactive Films based on Chitosan and Starchy Powder of White Turmeric Rhizomes (Curcuma Zedoaria) for Green Packaging applications 17:35- Oral Lecture (OL-20) Ms. K. Vara Lakshmi, GITAM University, Visakhapatnam Title: Groundwater Chemistry and Ionic Ratios as An Indicator to Assess the possible Salinity Intrusion in Coastal District of Andhra Pradesh, India 17:45- Oral Lecture (OL-21) Mr. Kaustav Bhattacharyya, Vidyasagar College, Kolkata Title: Optimization of Process Parameters and Kinetic Approach of Biosorption by a Cadmium(II) Resistant Strain Candida tropicalis XTA1874 for Wastewater Treatment 17:55- Oral Lecture (OL-22) Dr. Pragati Fageria, University of Rajasthan Title: Efficient photocatalytic degradation of pollutants using ZnO/Au and ZnO/Ag nanomaterials 18:05- Oral Lecture (OL-23) Mr. Anurag Kadawasara, J. N. V. University, Jodhpur Title: Adsorptive Parameters of Peanut Shell Active Carbons (PSAC) for Removal of Fluoride Ions 18:15- Oral Lecture (OL-24) Mr. Sardar Singh Poonia, J. N. V. University, Jodhpur Title: Facile Synthesis of Thiocarbamoyl Chitosan for Adsorptive Removal of Cr(VI) 18:25- Ms. Priya Tanwar, JNV University Jodhpur Title: Assessment of deteriorating ground water situation of Jodhpur district areas with special reference to fluoride concentration 18:35- Poster (OL-26) Dr. Shweta Vyas, University of Kota Title: Biopolymer based Nanocomposites: Sustainable Solution for Pollution Control		
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17:55- 18:05 18:05 18:05 18:05 18:15 18:15 18:15 18:15 18:15 18:25 18:25 18:25 18:25 18:25 18:36 18:36 18:36 18:36 18:37 18:38 18:39 18:39 18:39 18:39 18:30		
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19:30- 19:40		
19:40 Ms. Divya Rathi, xxx Title: xxx		
Title: xxx		
	19:40	
19:40- Oral Lecture (OL-33)	46.45	
	19:40-	Oral Lecture (OL-33)

19:50	Ms. Ommi Amala, GITAM University, Visakhapatnam Title: Assessment of Corrosive activity and Scale Formation of Groundwater in Visakhapatnam District using Hydrochemical Facies	
	VALEDICTORY (20:00-20:15)	
	Concluding Remarks by Dr. Sharad Lande, Reliance Industries Ltd	
	Vote of Thanks by Co-Convener	
	Prof. Praveen Ramamurthy, IISc Bangalore	

December 24, 2021 (Friday) (Day 4)

ICS Head office

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