

TENTATIVE TIMETABLE

NATCOSEB XXI

21st National Conference on Surfactants, Emulsions & Biocolloids
November 23-25, 2023

Day 1: Thursday, November 23, 2023

(VENUE: Pt. Ravishankar Shukla University Auditorium)

8:00 – 9:30	Registration
10:00 – 11:00	Inauguration (VENUE: Pt. Ravishankar Shukla University Auditorium)
11:00-11:15	HIGH- TEA
11:30 – 12:15	Chairperson: Prof. D.C. Mukherjee Keynote Lecture: Padmashri Prof. G. D. Yadav, Institute of Chemical Technology, Mumbai Title: “Selectivity Engineering in Multiphase Catalysis: Role of Microphases, Interfaces and Phase Transfer Catalysis.”
12:15– 12:50	Chairperson: Prof. S.P. Moulik Plenary Lecture PL-1: Prof. Amiya Kumar Panda, Vidyasagar University, West Bengal, Title: “Physico - Chemical Studies on The Oppositely Charged Mixed Surfactant Systems.”
13:00 – 14:00	LUNCH- BREAK
14:00 – 15:25	Chairperson: Prof. A D Sawant Plenary Lecture PL-2: Prof. Partha Sarathi Mukherjee, IISc Bangalore Title: “Self-Assembled Functional Molecular Vessels.”
14:00-14:35	Invited Lecture IL-1: Prof. P. Venkatesu, Delhi University, New Delhi Title: “Smart Anisotropic Colloidal Composites: A Suitable Platform for Modifying the Phase Transition of Diblock Copolymers by Gold Nanoparticles.”
14:35-15:00	IL-2: Dr. Sujit Kumar Ghosh, Jadavpur University, Kolkata Title: “Thematic Design of Plasmonic Field Effect Transistors: Crossing the Milestones.”
15:00-15:25	
15:30 - 15:40	TEA
15:45 - 17:15	Chairperson: Prof. Amiya Kumar Panda Plenary Lecture PL-3: Prof. Tarasankar Pal, IIT Kharagpur Title: “New Discovery Involving Metalloid Arsenic.”
15:45 – 16:15	

16:15 – 16:40	Invited Lecture IL-3: Prof. P. A. Hassan, BARC, Mumbai Title: “Structure and Dynamics of Supercooled all Solid Micelles.”
16:40 – 17:05	IL-4: Dr. Md. Sayem Alam, CSIR-CLRI, Chennai Title: “Amphiphiles: Fundamental and Applications.”
17:00 - 18:30	POSTER PRESENTATION Chairpersons: Dr. Atanu Mitra/ Dr. Biswarup Chakraborty POSTER No.: P1 to P51 (VENUE: First Floor, Pt. Ravishankar Shukla University Auditorium)
18:30 - 20:00	CULTURAL PROGRAM (VENUE: Pt. Ravishankar Shukla University Auditorium)
20:00	DINNER

Day 2: Friday, November 24, 2023
(VENUE: Sir C.V. Raman Hall, S.O.S in Chemistry)

9:30-10:00	Chairperson: Prof. Soumen Ghosh Dr. Syamasree Gupta Memorial Lecture Prof. Rajan Patel, Jamia Millia Islamia University, New Delhi Title: “Synthesis, interfacial parameters and synergistic antimicrobial activity of pyrrolidinium based-ionic liquids with melittin.”
10:00-11:30	Chairperson: Prof. Asit Baran Mandal Plenary Lecture
10:00-10:35	PL-4: Prof. Rakesh Kumar Mahajan, G.N.D.U. Amritsar Title: “Solubilization Behavior of Hydrophobic Drugs in Pure and Mixed Micelles of Pluronic Triblock Copolymers.”
10:35-11:00	Invited Lectures IL-5: Prof. Subit Kumar Saha, BITS Pilani, Hyderabad Title: “Compaction of Calf Thymus DNA By Some Potential Surfactants in the Presence of Silica Nanoparticles and Applications Toward In Vitro/In Vivo Gene Delivery.”
11:00-11:25	IL-6: Dr. Ranjan Kumar Dwari, CSIR-IMMT, Bhubaneswar Title: “Green Surfactant: A Way Forward in Froth Flotation Process.”
11:30-11:40	TEA

11:40-13:20	<p>Chairperson: Prof. Pramila Kumari Misra,</p> <p>Invited Lectures</p>
11:40-12:05	<p>IL-7: Dr. Vinod K. Aswal, BARC, Mumbai</p> <p>Title: “Observation of Reentant Phase Behavior in Charged Colloids.”</p>
12:05-12:30	<p>IL-8: Dr. Samik Kumar Hait, Indian Oil Corporation Ltd, Faridabad</p> <p>Title: “Nanotechnology Innovations and Commercialization –Challenges and Opportunities: Indian Oil Perspective.”</p>
12:30-12:55	<p>IL-9: Prof. Anjali Pal, IIT Kharagpur</p> <p>Title: “Photo-Fenton reaction on Co (II)-anchored admicellar support for dye degradation.”</p>
12:55-13:20	<p>IL-10: Dr. Santosh Kumar, Central Institute of Technology, Kokrajhar, Assam</p> <p>Title: “Edible Coating as a Solution to Maintain Quality and Extend Shelf-life of Fruits and Vegetables.”</p>
13:30-14:15	LUNCH- BREAK
14:15-14:40	<p>Chairperson: Prof. Subit Kumar Saha</p> <p>Best Paper (JSST) Award Lecture</p> <p>Ms. Pallabi Boro, Gauhati University, Guwahati, Assam</p> <p>Title: “Effect of Variation of pH and Shell Thickness upon the Optical and Structural Characteristics of PVA Capped CdSe and CdSe/ZnO Nanoparticles.”</p>
14:40-16:00	SPECIAL SESSION FOR ENVIRONMENTAL CHEMISTRY (PURSE PROJECT)
	<p>Chairperson: Prof. Manas K. Deb</p> <p>Special Lectures</p>
14:40 – 15:05	<p>SL 1: Prof. Gazala Habib, IIT Delhi</p> <p>Title: “Aerosol chemical profiles for important emission sources widely spread over Indian subcontinent.”</p>
15:05 – 15:30	<p>SL 2: Prof. Paromita Chakraborty, SRM Chennai</p> <p>Title: “Air-Water-Health Nexus for plastic additives: new challenges related to COVID-19 pandemic.”</p>
15:30 – 15:55	<p>SL 3: Prof. Shamsh Pervez, S.O.S in Chemistry PRSU Raipur</p> <p>Title: “Recent Findings of atmospheric organic aerosols in different environments.”</p>
16:00-16:15	TEA

16:15-18.15	<p>Chairpersons: Prof. Bijay Kumar Mishra / Dr. Santosh Singh Thakur</p> <p>ORAL PRESENTATION (YOUNG SCIENTIST COMPETITION) [12 minutes]</p> <p>PAPER No. 1 to 10</p> <p>OP -1: Koushendra Singh Rajput, IEHE Bhopal Title: "Micellization and Dissolution Behaviour of An Anti-Cancer Agent with In Presence of Cationic, Anionic and Neutral Surfactants."</p> <p>OP -2: Swetashree Pattanaik, School of Chemistry, Sambalpur University, Odisha Title: "Efficiency of a Natural Surfactant in Pipeline transport of Crude oil-water Emulsions: Revelation of Mechanism and conditions of Stabilizations."</p> <p>OP -3: Debasish Pal, IIT Kharagpur Title: "Degradation of Ciprofloxacin Under Ambient Condition in Synthetic and Real Wastewater Using Microporous Ammonium Phosphomolybdate as A Catalyst."</p> <p>OP -4: Arnab Banerjee, Presidency University, Kolkata Title: "Temperature-Dependent Micellization of a Surface-Active Ionic Liquid and An Anionic Polyelectrolyte in Aqueous Solution: Insight from Physicochemical and Computational Studies."</p> <p>OP -5: Tripathi Nitumani Narendramani, SVNIT Surat Title: "Salt Induced Thermo-Responsive Micellization and Aggregation for Nanostructure Evaluation In PEO-PPO-PEO-Based Block Copolymers."</p> <p>OP -6: Shalini Dyagala, Bits Pilani Hyderabad Title: "Compaction of Calf Thymus DNA By A Potential One-Head-Two-Tail Surfactant: Properties Of Nanomaterials And Biological Testing For Gene Delivery."</p> <p>OP -7: Maitreyee Mitra, Vidyasagar University, Medinipur Title: "Interfacial Adsorption And Aggregation Behaviour Of Hexadecyltrimethylammonium Bromide In Water-Dioxane Mixed Solvent System."</p> <p>OP- 8: Sanyukta Bhattacharjee, IIT- PATNA Title: "Osmolytes In Polymeric Environment: Enlightening The Changes In Water Dynamics And Properties Of Polymeric Solution"</p> <p>OP – 9: Sapna Rooprao Warkari, RTM University, Nagpur Title: "Thermodynamic Studies Of Ethaline And Its Mixture With Water: A Volumetric, Acoustic And Surface Approach"</p> <p>OP -10: Yogyata Chawre, S.O. S In Chemistry PRSU Raipur Title: "Oxidase Mimicking Activity of Cerium Oxide for the Detection of Neurotransmitter and Pesticide"</p>
18.15 -19.00	<p>Short Invited Lecture</p> <p>Chairperson: Dr. Sujit Kumar Ghosh</p>
18:15 – 18:30	<p>SIL 1: Dr. Biswarup Chakraborty, IIT Delhi</p> <p>Title: "Tuning the Surface or Core of Ionic Metal Oxide Nanocrystals for Photo(electro)catalytic Applications."</p>

18:30 – 18:45	SIL 2: Dr. Sabita Patel, NIT Rourkela Title: “Design and synthesis of PEG based micellar drug delivery vehicles for application in cancer therapy.”
18:45 – 19:00	SIL 3: Dr. Gulmi Chakraborty, C. V. Raman Global University, Bhubaneswar Odisha Title: “Aromatic amino acids based green amphiphiles: Fascinating morphology and biological relevance”
19:00- 20:00	AGM (ANNUAL GENERAL MEETING) (VENUE: Sir C.V. Raman Hall, S.O.S in Chemistry)
20:00	DINNER

Day 3: Saturday, November 25, 2023

(VENUE: Sir C.V. Raman Hall, S.O.S in Chemistry)

9:30 – 11:00	Chairperson: Prof. Anjali Pal
9.30 - 10:00	Plenary Lecture PL-5: Prof. B. K. Mishra, Sambalpur University Title: “Fantasy Vs Reality in Prediction of Molecular Characteristics: A Surface Chemist Perspective.”
10:00 – 10:25	Invited Lecture IL-11: Dr. Sujoy Sarkar, VIT Chennai Title: “Nano to Nano: Ionic Strength Induced Local Electrodeposition of ZnO nanoparticles using Scanning Electrochemical Microscopy.”
10:30-10:45	TEA
10:45 – 11:00	Short Invited Lecture Chairperson: Prof. Kamlesh Shrivastava SIL 4: Dr. Sourav Das, The Bhawanipur Education Society College, Kolkata Title: “In-depth examination of interactions between polyelectrolytes and surfactants bearing opposite electrical charges.”
11:00 – 11:15	SIL 5: Dr. Jayanta Kumar Midya, Jagannath Kishore College, Purulia, West Bengal Title: “Kinetic and mechanistic study of the oxidation of fructose by colloidal MnO₂ in aqueous acidic medium in presence of different micellar media.”
11:15 – 11:30	SIL 6: Dr. Bhanushree Gupta, CBS Pt. R. S. U., Raipur Title: “Nanoencapsulation of Lemongrass Essential Oil to Boost Bioactivity against Some Common Food Borne Bacteria.”

11:30– 11:45	SIL 7: Dr. Archna Aastkar , Science College Raipur Title: “Thermodynamic And Kinetic Study Of Removal Of Heavy Metals From Waste-Water By Using Albizia Lebbeck.”
11:45 – 12:00	SIL 8: Dr. Santosh Kumar Verma , Yulin University China Title: “Yttrium, Nickel microalloying to activate the regulation of Mg/MgH₂ hydrogen storage (ONLINE/OFFLINE).”
12:00 – 12:15	SIL 9: Dr. Manoj Kumar Banjare , MATS Raipur Title: “Host-Guest Complexation of Ionic Liquids with α-and β-Cyclodextrins: A Comparative Study”
12:15 – 12:30	SIL 10: Dr. Tushar Kant , Govt. College Kuakonda, Dantewada Title: “Design and Development of Paper-based Sensor Using Nano-Ink: An Electrochemical Approach”
12:30 – 12:45	SIL 11: Dr. Toshikee Yadav , CBS Pt. R. S. U., Raipur Title: “Surface Active Ionic Liquids for Solubilization of Polycyclic Aromatic Hydrocarbons (PAHs).”
13:00 – 13:30	Plenary Lecture (ON LINE) Chairperson: Prof. Atanu Mitra PL-6 (ON LINE): Prof. Sunil S. Bhagwat, IISER Pune Title: “Mixed Surfactant Systems.”
13:30 - 14:15	LUNCH BREAK
14:00 – 15:30	Chairperson: Prof. Tarasankar Pal Invited Lecture (ON LINE)
14:30 – 14:55	IL-12 (ON LINE): Prof. Saptarshi Mukherjee, IISER Bhopal Title: “Biomolecule-Drug Interactions: Spectroscopy and Sequestration.”
14:55 – 15:20	IL-13 (ON LINE): Dr. Kamalakanta Behera, University of Allahabad, Prayagraj Title: “Ionic Liquid-Protein Interactions within Micro heterogeneous Media: A Spectroscopic Investigation.”
15:20 – 15:55	Plenary Lecture (ON LINE) PL-7 (ON LINE): Prof. Chien-Hsiang Chang, National Cheng Kung University, Taiwan Title: “Characterization of vesicular structures formed of microalgae oils as drug delivery carriers”
16:00	VALEDICTORY & PRIZE DISTRIBUTION

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