

SURFACTANTS IN SOLUTION (SIS) 2024

June 16 – 21, 2024, Goa, India

PROGRAMME SCHEDULE



June 16, 2024: 18:15 – 19:45 hrs: Mixer (Venue: Royal Orchids Beach Resort and Spa, Goa)

June 17 2024	09:00-10:00	Inauguration (Venue: DLT 9)			
	10:00-11:00	KM Awardee Lecture: Prof. Thomas Zemb Title: Hydrotropes: weakly SURFace ACTve agENTS but strongly active for solubilization Chairperson: Dr. K. L. Mittal Venue: DLT 9			
	11:00-11:30	TEA / COFFEE BREAK			
		Technical Session I (Venue: DLT 9) Chairperson: Prof. Jaideep Chatterjee		Technical Session II (Venue: DLT 10) Chairperson: Prof. Sutapa Roy Ramanan	
	11:30-12:00	IL* 1: Dr. Thomas Willers	The impact of viscosity on dynamic surface tension measurement: A guideline to analyze surfactant solutions of various viscosities	IL3: Prof. Partha Hazra	Unravelling the anomalous nature of the aqueous nanochannels in self-assembled Lyotropic liquid crystalline systems
	12:00-12:30	IL2: Prof. Wuge Briscoe	Self-assembly and interactions of bacterial lipids	IL4: Prof. Junichi Kadokawa	Pickering emulsion polymerization using amphiphilic chitin nanofibers as Stabilizer to fabricate nanochitin-based composite particles
	12:30-12:50	OP* 1: Ms. Nitumani Tripathi	The influence of copolymeric additives and hydrophobicity dynamics on tailored self-association in P123 micelles	OP3: Mr. Mayursing Girase	Aqueous self-assembly in a zwitterionic-anionic surfactant system: physicochemical insights
	12:50-13:10	OP2: Mr. Yagnik Vora	Polyol-based Deep Eutectic Solvents (DESs): A new platform for modulating surfactant self-assembly in pure and aqueous environments	OP4: Mr. Suyash Gairola	Tactile friction under boundary lubrication: Reduction in fingertip friction using surfactants
	13:10-14:30	LUNCH+STALLS+NETWORKING			

Plenary Lectures: 50 minutes presentation followed by Q&A

*** IL: Invited Lecture: 25 minutes presentation followed by Q&A**

*** OP: Oral Presentation: 15 minutes followed by Q&A**

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June 17 2024	14:30-15:30	Plenary Lecture 1: Prof. Sunil Bhagwat Title: Surfactants - Synthesis, combinations, reaction media and measurements Chairperson: Prof. S. Bhattacharya Venue: DLT 9			
	15:30-16:00	TEA / COFFEE BREAK			
		Technical Session III (Venue: DLT 9) Chairperson: Prof. Jingcheng Hao		Technical Session IV (Venue: DLT 10) Chairperson: Prof. Boris A Noskov	
	16:00-16:30	IL5: Prof. Abhijit Dan	Ultra-stable Pickering Liquid Crystal-in-Water Emulsions decorated with Thermoresponsive Microgels: An Optical Sensor for Amphiphilic Analytes	IL7: Prof. Jaideep Chatterjee	De-stabilization of oil-droplets adhering to practical solid surfaces with surfactant solutions
	16:30-17:00	IL6: Prof. Amiya Panda	Physicochemical studies on amino acid based metallosurfactants in combination with Phospholipid	IL8: Prof. S Sandanaraj Britto	Directed chemical evolution of protein-based surfactants
	17:00-17:20	OP5: Ms. Pragya Malik	Synthesis and surface activity of short chain carboxamide based cationic fluorocarbon and hydrocarbon cationic surfactants as alternatives to PFOA/PFOS	OP7: Dr. Veena Adi	Surfing the Green Wave: Bio Surfactants as Key Players in Environmental Restoration
	17:20-17:40	OP6: Ms. Versha Joshi	Synthesis of short chain thioether containing non-ionic Fluorosurfactant and evaluation of its surface activity	OP8: Ipsita Priyadarshini	Remediation of Pyrene contaminated red soil by nZVI (Nano Zero-valent Iron) and SiO ₂ (Silica) nanoparticles stabilized Tween 80 (TW80) surfactant foam
	17:40-18:00	-	-	OP9: Ms. Anjali	Human serum albumin conjugated gold nanoparticles non-covalent interactions explored with antioxidants ferulic acid and sinapic acid

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June 18 2024	09:00-10:00	Plenary Lecture 2: Prof. John Texter Title: Polymerized Ionic Liquid Surfactants for Advanced Materials Chairperson: Prof. S. Krishnaswamy Venue: DLT 9			
		Technical Session V (Venue: DLT 9) Chairperson: Prof. Kallol K. Ghosh		Technical Session VI (Venue: DLT 10) Chairperson: Prof. Vivek Rangarajan	
	10:00-10:30	IL9: Prof. Jingcheng Hao	To be announced	IL10: Prof. Anniina Salonen	Surfactant crystals at gas/liquid interfaces for foam stability
	10:30-10:50	OP10: Ms. Anu Jain	From self-assembly to Drug Delivery: Understanding and engineering protein fibrils by pluronics monomers and micelles	OP11: Ms. Jyoti Rathee	Unravelling Thermodynamics signatures accompanying binding of protein to lipid nanoparticles: A calorimetric and spectroscopic analysis
	10:50-11:20	TEA / COFFEE BREAK			

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June 18 2024	Technical Session VII (Venue: DLT 9) Chairperson: Prof. Soumen Ghosh			Technical Session VIII (Venue: DLT 10) Chairperson: Prof. Saroj Baral	
	11:20-11:50	IL11: Prof. Kallol Ghosh	Design and development of novel Micellar catalytic systems for Organophosphate toxicants	IL13: Prof. Maria Sammalkorpi	Lessons learned from modelling surfactants at multiple scales: reverse micelles, emulsions and adsorption
	11:50-12:10	IL12: Prof. Saad Khan	Probing surfactant interactions with different interfaces: Case studies with Nanochitin and fibrous nonwoven fabrics	OP14: Dr. Madhusmita Dash	Interfacial phenomena in leaching of critical metals from spent lithium-ion battery cathode
	12:10-12:30	OP12: Dr. Uttam Kumar Bhui	Insight into Surfactant-assisted Enhanced Oil Recovery: Spectroscopic approach for understanding oil Solubilization for designing effective injection fluid	OP15: Ms. Sapana Sinha	How Zwitterionic surfactants affects the photophysics of Styryl Dye in Triblock copolymer assembly with different PEO and PPO composition?
	12:30-12:50	OP13: Mr. Omish Sethi	Outstanding stability and enhanced activity of Cytochrome-c induced by surfactant in aqueous mixtures of deep eutectic solvent	OP16: Ms. Shalini Dyagala	Phototriggered Drug delivery system of Di-block co-polymeric and Spiropyran micelles via NSET mechanism for targeted and real-time drug delivery
12:50-14:00	LUNCH+STALLS+NETWORKING				
14:00:19:00	EXCURSION				
19:15-21:45	GALA DINNER (Venue: Royal Orchids Beach Resort and Spa, Goa)				

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June 19 2024	09:00-10:00	Plenary Lecture 3: Prof. Jong Duk Kim Title: Internally Networked Nanogels Chairperson: Dr. Hrushikesh Mirgal Venue: DLT 9			
		Technical Session IX (Venue: DLT 9) Chairperson: Dr. Venkataraghavan		Technical Session X (Venue: DLT 10) Chairperson: Prof. Konrad Terpilowski	
	10:00-10:30	IL14: Dr. Samiran Mahapatra	Effect of non-ionic surfactants on the wetting property of cationic surfactant	IL15: Prof. Boris A Noskov	Dynamic surface properties of protein aggregates
	10:30-10:50	OP17: Mr. Mohan Jujaru	Biosurfactant production using waste engine oil degrading bacteria pseudomonas aeruginosa gi KP163922: A promising solution for dye removal using nano-adsorbents	OP18: Dr. Rohini Gupta	Innovation of sustainable surfactants: BASF Perspective
	10:50-11:20	TEA / COFFEE BREAK			
		Technical Session XI (Venue: DLT 9) Chairperson: Dr. Samiran Mahapatra		Technical Session XII (Venue: DLT 10) Chairperson: Prof. Pradeep Kumar Sow	
	11:20-11:50	IL16: Dr. R. Venkataraghavan	Sustainable surfactants: The role for feedstocks, technologies and new chemistries	IL18: Prof. Edgar Acosta	The revised Hydrophilic-Lipophilic-Difference for Ionic surfactants (HLD _{bi}): A bridge between formulation practice and surfactant science
	11:50-12:10	IL17: Prof. Shigeru Deguchi	Baroplastics: A Deep-Sea-Inspired Path to Sustainable Polymers	IL19: Prof. Sepideh Razavi	Particle attributes and stability of interfacial systems in relation to pickering foams
	12:10-12:30	OP19: Dr. Lalit Pandey	Surface, interfacial and thermodynamic aspects of the biosurfactant-salt systems	OP21: Mr. Perapu Nagaraju	Enhancing gas hydrate kinetics using surfactants for desalination applications
	12:30-12:50	OP20: Ms. Aakanksha Mohan	Exploring the influence of surfactant collector bath characteristics on the morphology of electrospun polystyrene magnetite composite fibers	OP22: Ms. Benita Malinowska	Flotation separation of ABS/PS flakes mixture from used refrigeration equipment,
	12:50-14:30	LUNCH+STALLS+NETWORKING			

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June 19 2024	14:30-15:30	Plenary Lecture 4: Prof. Calum J. Drummond Title: Amphiphile Self-Assembly Driving Force, Structure Formation, and Applications Chairperson: Prof. S. S. Bhagwat Venue: DLT 9			
	15:30-16:00	TEA / COFFEE BREAK			
		Technical Session XIII (Venue: DLT 9) Chairperson: Dr. Subit Kumar Saha		Technical Session XIV (Venue: DLT 10) Chairperson: Prof. A. K. Panda	
	16:00-16:30	IL20: Prof. Brij Moudgil	Leveraging surfactant and particle & powder technologies for enhanced performance in industrial applications	IL22: Prof. Chien-Hsiang Chang	Characterizations of vesicular structures fabricated from a Pseudotriple-Chained ion pair amphiphile
	16:30-17:00	IL21: Dr. Hrushikesh Mirgal	Novel polymeric aqueous dispersant – Atlox 4917	IL23: Prof. Hideki Sakai	Photo-induced fast and reversible morphological changes in micelles formed by amphiphilic Lophine dimers and their evaluation by in-situ SANS measurement
	17:00-17:20	OP23: Prof. Konrad Terpilowski	Hybrid hydrogel sorbents based on natural polysaccharides for extraction of dyes from aqueous solutions	IL24: Prof. Santanu Bhattacharya*	Challenges in the design and optimization of the surfactant based delivery systems
	17:20-18:20	POSTER SESSION			

* Duration of IL25: 25 minutes presentation followed by Q&A

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Technical Session XV (Venue: DLT 9) Chairperson: Dr. Saurabh Patankar			
June 20 2024	9:00-9:30	IL25: Prof. Subit Kumar Saha	Structural effect of surfactants on the compaction of ct-DNA in the presence of silica nanoparticles: Presenting highly efficient gene delivery vectors
	9:30-10:00	IL26: Prof. Nand Kishore	Structure-Property-Energetics relationships in drug partitioning and release employing colloidal self- assemblies: mechanistic insights
	10:00-10:30	Valedictory and Vote of Thanks (Venue: DLT 9)	

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