

Day 1: 02 Jan., 2016 Morning session. (9:00-12:00)

Room1/ Session1: **Colloids and Nano-Particles-1** Chairs: **R. Ganapathy, R. Thaokar.**

Talk No.	Speaker Name	Talk Title
1	Yilong Han	Surface Premelting of Colloidal Crystals.
2	Ethayaraja M.	Self-assembly of oppositely charged patchy and isotropic colloids binary mixture
3.	B.L.V. Prasad	Molecular Tools for the Manipulation of Size, Surface Chemistry and Assemblies of Metal Nanoparticles
4.	K. Guruswamy	Macro-assemblies from bonding colloids
5.	Prerna Sharma	Self assembly of colloidal rafts
6.	Rajdeep Bandopadhyay	Predictive model of Nanoparticle Size Distribution from Interparticle Potential

Room2/ Session2: **Polymers-Liquid Crystals-1** Chairs: **Abhijeet D., S. Ramakrishnan**

Talk No.	Speaker Name	Talk Title
1.	Sandeep Kumar	Discotic Liquid Crystalline Nanocomposites as Advanced Materials for Opto-electronics
2.	Govandhan. P. Reddy	Protein Collapse and Folding: Resolving the discrepancy between SAXS and smFRET experiments
3.	R. Krishnamoorti	Hybrid Nanoparticles: Structure and Dynamics
4.	P. Viswanath	Dynamics of liquid crystalline domains at air-water interface
5.	T. P. Radhakrishnan	Entry into Functional Molecular Phase Change Materials
6.	S. Sukumaran	Entanglements in binary polymer blends: Mixing rules for blends of flexible and stiff polymers

Room3/ Session3: **Wetting & Adhesion** Chairs: **A. Malani, A. Ghatak**

Talk No.	Speaker Name	Talk Title
1.	Sujeet K. Sinha	Effects of Interfacial adhesion and surface free energy in tribology
2.	K. Khare	Surface And Interfacial Phenomenon In Soft Matter: Wetting, Adhesion And Slippage
3.	Lipika Parida	Durotaxis of the Nematode <i>Caenorhabditis elegans</i>
4.	Prosenjit Kabi	A study of evaporation dynamics in sessile and extended nanoparticle laden droplets
5.	Suman Chakrabarty	A molecular view of hydrophobic interactions: Effect of size, shape and temperature
6.	Subir K. Das	Computer Simulations of Wetting Phenomena: Thermodynamic methods to calculate contact angle, surface tension, line tension, etc.

Day 1: 02 Jan, 2016; Afternoon session. (14:30-17:30)

Room1/ Session4: **Glassy and Amorphous Matter -1** Chairs: **P. Chaudhuri, S. Sastry**

Talk No.	Speaker Name	Talk Title
1.	Arjun Yodh	Vibrations, Softness & Mechanics in Disordered Colloidal Packings
2.	C. Dasgupta	Activity induced Fluidization in Dense Glassy systems.
3.	Yogesh Joshi	A Model for Aging under Deformation Field in Soft Glassy Materials
4.	Prabhat Jaiswal	Shear transformation zones: State determined or protocol dependent?
5.	G. Shrivastav	Formation and growth of shear bands in glasses
6.	R. Radhakrishnan	Shear banding in time dependent flows of soft glassy materials

Room2/ Session5: **Active & Living Matter-1** Chairs: **R. Adhikari , Mahesh T.**

Talk No.	Speaker Name	Talk Title
1.	R. Chellakot	Persistence of strain in filament motor assemblies.
2.	Tripti Bameta	Additivity of maximum forces generated by multiple filaments or motors and its dependence on equilibrium
3.	P. Burada	Chiral squirmers
4.	Alois Wurger	Self-propulsion of active colloids in thermal and concentration gradients: near-critical mixtures and specific-ion effects
5.	M. Inamdar	Coherent Motion of Epithelial Monolayer Sheets under Confinement
6.	Raj K. Manna	Colloidal transport by active filaments

Room3/ Session6: **Rheology-1** Chairs: **Yogesh Joshi , Chirag Kalelkar**

Talk No.	Speaker Name	Talk Title
1.	Prachi Thareja	Rheology of Colloidal Particles-in-Liquid Crystal Suspensions
2.	Rasmita Sahoo	Rheology of twist-grain-boundary-A liquid crystals
3.	A. Kulkarni	Star Telechelic Poly(L-lactide) Ionomers
4.	K. A. Ramya	Non Linear Rheology of Gel Like Materials - Comparison of Cone & Plate and Parallel Plate Geometries
5.	Vinay A Juvekar	Spinning Drop Interfacial Rheometer
6.	Janhavi Raut	RHEOLOGY: Utility and Implications in Fast Moving Consumer Goods

Day 2: 03 Jan., 2016 Morning session. (9:00-12:00)

Room1/ Session 7: **Membranes** Chairs: **P.B. Sunil Kumar, Durba Sengupta**

Talk No.	Speaker Name	Talk Title
1.	Sovan Das	Drag Force on a Liquid Domain Moving in a Lipid Bilayer Membrane
2.	A.R.Choudhury	Mechanical properties of membranes probed with force spectroscopy
3.	R. Radhakrishnan	Multiscale modeling of functionalized nanocarriers: effects of blood cell interactions, temporal hydrodynamic correlations, and nanocarrier adhesion at the live cell interface and towards a biophysically motivated next-generation pharmacodynamic model.
4.	Y. Hatwalne	Equilibrium of fluid membranes with tangent-plane order (TPO), and elasticity of smectics with TPO
5.	M. Laradji	Membranes-Mediated aggregation of anisotropically-curved Nanoparticles
6.	A. Dasmahapatra	Fullerene Transport across a Cell Membrane: A Coarse-grain Molecular Dynamics Study

Room2/ Session 8: **Confined Liquids** Chairs: **Subir K. Das, Shivprasad Patil.**

Talk No.	Speaker Name	Talk Title
1.	Sanjay Puri	Surface-Directed Spinodal Decomposition
2.	A.V. Anil Kumar	Structure and dynamics of binary colloidal mixtures over a potential barrier: Effect of depletion interaction.
3.	P.M. Hoffmann	The surprising nanomechanics of confined simple liquids
4.	Swarnlata Singh	Structural transitions of simple liquids in contact with solid surfaces textured with nanoscale pits
5.	Sutapa Roy	Statics and Dynamics of the Critical Casimir Effect in a Binary Fluid
6.	Dilip Satapathy	Solvent dielectric and ionic concentration effects on confined colloids

Room3/ Session 9: **Granular Matter/Suspensions-1** Chairs: **Tejas G. Murthy, Ashish Orpe**

Talk No.	Speaker Name	Talk Title
1.	R. Bandopadhyay	Effect of electrolyte on the microstructure and yielding of aqueous dispersions of colloidal clay
2.	Ying C. Liao	Sedimentation Velocity of Nanomaterial Suspension under Centrifugal Acceleration
3.	Moumita Maiti	Friction-induced shear thickening: a microscopic perspective
4.	Stephanie Marenne	Unsteady shear flows of colloidal suspensions simulated by accelerated stokesian dynamics
5.	Anugrah Singh	Particle migration in concentrated suspension flow through bifurcating channels
6.	Dhiraj Patil	DEM-LBM studies for conductive particle suspension in electro-discharge machining

Day 2: 03 Jan, 2016 Afternoon session. (14:30-17:30)

Room1/ Session10: **Surfactants** Chairs: **Kunj Tandon, V.A. Raghunathan**

Talk No.	Speaker Name	Talk Title
1.	Vinod K. Aswal	Probing surfactant interaction in multi-component systems
2.	Kamendra Sharma	Structure, Function, and Dynamics of Protein-Polymer Surfactant Materials
3.	Basavaraja G.	Formation, structure and stability of nano vesicle dispersions
4.	Priya Rajdev	Role of H-Bonding in Self-Assembly of Naphthalene-diimide (NDI)-Conjugated Amphiphiles
5.	Amrita Sikder	H-bond directed distinct functional group display at surface of vesicles and its impact on enzyme inhibition.
6.	Anuya Nisal	Silk Fibroin - Sphorolipid gelation: Deciphering the mechanism

Room2/ Session11: **Gels** Chairs: **Janhavi Raut , Suhrit Ghosh**

Talk No.	Speaker Name	Talk Title
1.	Uday Maitra	Nanostructured materials from metallohydrogels and their applications
2.	Sameer Huprikar	Rheology and microstructure of capillary force induced gels
3.	Saikat Roy	Yielding in a strongly aggregated colloidal gel: 2D simulations and theory
4.	Tathagata Mandal	Semiconducting nanotubular assembly from a folded polyurethane scaffold
5.	S. Raghavan	Gelation by SelfAssembly: Fundamentals and Some Applications
6.	Shiki Yagai	Metastable Supramolecular Assemblies of π -Conjugated Systems

Room3/ Session12: **Rheology-2** Chairs: **Yogesh Joshi, Chirag Kalelkar**

Talk No.	Speaker Name	Talk Title
1.	Tam Sridhar	Step Strain Rate Experiments on an Entangled polymer Solution.
2.	Lynn.M Walker	Impact of Composition on the Interfacial Mechanics of Multicomponent Fluid-Fluid Interfaces
3.	V. Kumaran	Multiscale modeling of lamellar mesophases.
4.	Madhu Priya	Nonlinear Rheology of repulsive glasses with short ranged attractive interactions.
5.	P.L. Venugopalan	Investigating mechanical properties of blood using Magnetic-Nanoswimmers
6.	Rajendra Joshi	Yielding of Thermo-responsive Dense Microgel Glasses

Day 3: 04 Jan, 2016 Morning session. (9:00-12:00)

Room1/ Session13: **Glassy and Amorphous Matter-2** Chairs: **P. Chaudhuri, S.Sastry**

Talk No.	Speaker Name	Talk Title
1.	K. Miyazaki	Thermodynamic glass transition of randomly pinned systems
2.	S. Karmakar	Dynamics of glass forming liquids with randomly pinned particles
3.	R. Ganapathy	Breakdown of Stokes-Einstein and Stokes-Einstein-Debye Relations in Suspensions of Colloidal Ellipsoids
4.	A. Ghoshal	Heterogeneous dynamics, glassiness and slow decay of correlations for Coulomb-interacting particles in confined systems
5.	A.D. Parmar	Yielding transition in a model amorphous solid
6.	A. Banerji	The role of structure and entropy in determining differences in dynamics for glass formers with different interaction potentials

Room2/ Session14: **Active & Living Matter -2** Chairs: **Ronojoy A., Mahesh T.**

Talk No.	Speaker Name	Talk Title
1.	Ambarish Ghose	All magnetic active matter
2.	Sumesh Thampi	Rotating Colloids in Active Suspensions
3.	Pramod Pullarkat	The Role of membrane and cytoskeleton in induced axonal beading & retraction
4.	Shakti N Menon	Artificially-induced plankton blooms in oceanic flows
5.	G. Subramaniam	Spatial correlation in suspensions of slender swimmers
6.	D. Chakrabarty	Self-thermophoretic motion of a Janus particle - a molecular dynamics study

Room3/ Session15: **Granular Matter/Suspensions-2**, Chairs: **Tejas G. Murthy, Ashish Orpe**

Talk No.	Speaker Name	Talk Title
1.	Robert Farr	The random close packing fraction of polydisperse spheres.
2.	S. Sengupta	New method to compute force chains in granular media
3.	Ishan Sharma	Fast and slow impact on granular beds
4.	Vinutha H. A.	The role of structure in shear jamming and shear thickening
5.	Shankar Ghosh	Mechanics of an underwater sand column
6.	Manaswita Bose	Velocity distribution of particles in low velocity pneumatic conveying system

Day 3: 04 Jan,2016 Afternoon session. (14:30-17:30)

Room1/ Session16: **Colloids and Nanoparticles-2** Chairs: **R. Ganapathy, R. Thaokar**

Talk No.	Speaker Name	Talk Title
1.	Daan Frenkel	Numerical design of pathways for addressable self-assembly
2.	S. Krishnamurthy	Experimental Realization of Micrometer sized Active Heat Engine
3.	P. Sunthar	Enhanced Mass Transport and Diffusiophoresis in Nanoparticle Suspensions
4.	Abhishek Yadav	Synthesis of photonic bandgap crystals from colloidal suspensions
5.	Ankur Miglani	Buckling Phenomenon in drying nanofluid droplets in a contact free environment
6.	V. Manoharan	Making meta-atoms through parking and packing

Room2/ Session 17: **Turbulent Flows** Chairs: **P. Perlekar, R. Govindrajan**

Talk No.	Speaker Name	Talk Title
1.	T. Prabhakaran	Entrainment effects in cumulus clouds - perspective from direct observations and simulations
2.	Dharmansh	Stability Analysis of an Electrified Viscoelastic Fluid Jet
3.	S. Sankar Ray	Dynamics of inertial particles in a turbulent flow: Settling and Coalescences
4.	D. Mitra	Turbulent Soret Effect
5.	N. Majumdar	Viscous Gas Model
6.	Abhijeet Joshi	Front Propagation in Active Turbulence.

Room3/ Session 18: **Polymers-Liquid Crystals-2** Chairs: **Abhijit D., S. Ramakrishnan**

Talk No.	Speaker Name	Talk Title
1.	Parbati Biswas	Conformation and Dynamics of Branched Polymers with Semiflexibility and Excluded Volume
2.	S. Ramakrishnan	Janus Amphiphilic Hyperbranched Polymers
3.	Surajit Dhara	Directed self-assembly of colloids stabilised by topological defects of liquid crystals
4.	A. Mukhopadhyay	The Crossover Length-Scale from Nano to Bulk Viscosity in Polymer Solution and Melt.
5.	Jaydeep Basu	Anomalous Dynamics and Hydrodynamic Interactions of Polymeric Nanocolloids in Polymers
6.	Mukta Tripathi	Entropy driven ordering of polymer-linked nanoparticles