

Note that Times are **Eastern Daylight Time (EDT)**

Monday

9:30-10am EDT	Life in a tight spot: Transport and collective behavior of bacteria in heterogeneous media S. Datta, Princeton U.
10:00am-10:15am	Discussion/Break
10:15am-11:15am	<i>Colloidal and Interfacial Phenomena Related to Biological Systems I</i> Chair: L. Biswal, Rice U.
11:15am-11:45am	Discussion/Break
11:45am-1:00pm	<i>Colloidal and Interfacial Phenomena Related to Biological Systems II</i> Chair: C. Landes, Rice U.
1:00pm-1:15pm	Discussion/Break
1:15pm-2:30pm	<i>Polymer Interfaces/Gels I</i> Chair: A. Marciel, Rice U.
2:30pm-2:45pm	Discussion/Break
2:45pm-3:45pm	<i>Polymer Interfaces/Gels II</i> Chair: W. Chang, Texas Tech
3:45pm-4:15pm	Discussion/Break

Tuesday

9:30-10am EDT	Spontaneous Emulsification of Crude Oils during Low Salinity Waterflooding W. Song, UT Austin
10:00am-10:15am	Discussion/Break
10:15am-11:30am	<i>Colloidal and Interfacial Phenomena Related to Oil/Gas Applications</i> Chair: V. Prigiobbe, Stevens Institute of Technology
11:30am-11:45am	Discussion/Break
11:45am-12:45pm	<i>Colloidal Hydrodynamics</i> Chair: J. Richards, Northwestern U.
12:45pm-1:15pm	Discussion/Break
1:15pm-2:30pm	<i>Interfacial Phenomena</i> Chair: S. Hashmi, Northeastern U.
2:30pm-2:45pm	Discussion/Break
2:45pm-3:45pm	<i>Nanomaterials</i> Chair: M. Jones, Rice U.
3:45pm-4:15pm	Discussion/Break

Wednesday

9:30-10am EDT	Electrochemical Interfaces for Molecularly-Selective Separations X. Su, UIUC
10:00am-10:15am	Discussion/Break
	<i>Active Colloids I</i> Chair: B. Bharti, LSU
11:15am-11:45am	Discussion/Break
11:45am-1:00pm	<i>Active Colloids II</i> Chair: C. Silvera Batista, Vanderbilt U.
1:00pm-1:15pm	Discussion/Break
	<i>Anisotropic Colloidal Assembly</i> Chair: Q. Chen, UIUC
2:15pm-2:45pm	Discussion/Break
	<i>Colloidal and Interfacial Rheology</i> Chair: L. Biswal, Rice U.
4:00pm-4:30pm	Discussion/Break

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10:00am-10:15am	Discussion/Break
	<i>Colloidal and Interfacial Phenomena Related to Biological Systems I</i> <i>Chair: L. Biswal, Rice U.</i>
10:15am-10:30am	AFM-based high throughput nanomechanical characterization of single Extracellular vesicles A. Ridolfi, CSGI, U. Florence
10:30am-10:45am	Sensing Bacterial Growth and Measuring Antibiotic Susceptibility via Laser Diffraction N. Kotoulas, U. Toronto
10:45am-11:00am	Understanding nano-bio interactions: lamellar and non-lamellar lipid mesophases as synthetic mimics for biological interfaces L. Caselli - CSGI - U. Florence
11:00am-11:15am	High Throughput Image Analysis and Properties of Compositionally Controlled Bilayers O. Zabala-Ferrera, U. Mass Amherst
11:15am-11:45am	Discussion/Break
	<i>Colloidal and Interfacial Phenomena Related to Biological Systems II</i> <i>Chair: C. Landes, Rice U.</i>
11:45am-12:00pm	Microfluidic Droplet-Based Tool to Quantify Viscosity of Concentrating Protein Solutions D. Yang, Carnegie Mellon U.
12:00pm-12:15pm	Quantifying the adsorption dynamics and phase behavior of mAbs at the air/water interface A. Kanthe, CCNY
12:15pm-12:30pm	Nanoscale Surface-Induced Unfolding of Single Fibronectin Is Restricted by Serum Albumin Crowding L. Warning, Rice U.
12:30pm-12:45pm	Step into the Unresolved: Versatile Tools Towards Real-time Single-molecule Biology N. Hadizadeh, LUMICKS
12:45-1:00pm	Elucidating the Biological Behaviors of Colloidal Polymeric Nanoparticles K. Kenry, Dana-Farber Cancer Institute, Harvard Medical School
1:00pm-1:15pm	Discussion/Break

Monday

	<i>Polymer Interfaces/Gels I</i> <i>Chair: A. Marciel, Rice U.</i>
1:15pm-1:30pm	Hydrogel microparticles for controlled drug delivery: Effects of shape and peptide conjugation E. Kharlampieva - U. Alabama
1:30pm-1:45pm	Signatures of Overaging in Aqueous Dispersion of Carbopol M. Agarwal, IIT Kanpur
1:45pm-2:00pm	Microrheological characterization of covalent adaptable hydrogel degradation in response to environmental pH changes that mimics in the gastrointestinal tract N. Wu, Lehigh U.
2:00-2:15pm	Rheology, swelling and dissolution of DNA-cross-linked polyacrylamide hydrogels R. Hill, McGill U.
2:15pm-2:30pm	Solution Behavior of Short Polypeptide Polyampholytes with Increasing Block Sizes W. Shi, Rice U.
2:30pm-2:45pm	Discussion/Break
	<i>Polymer Interfaces/Gels II</i> <i>Chair: W. Chang, Texas Tech</i>
2:45pm-3:00pm	Making Brushy Surfaces with Bottlebrush Polymers R. Verduzco, Rice U.
3:00pm-3:15pm	Nano-emulsion-hydrogel composites: electroacoustic, viscoelastic, and swelling responses G.A. Afuwape, McGill U.
3:15pm-3:30pm	Investigating the role of the gel fluid phase in soft adhesive contact K. Jensen, Williams College
3:30pm-3:45pm	Synthesis of Non-Spherical Polydopamine Nanoparticles E. Davis, Auburn U.
3:45pm-4:15pm	Discussion/Break

Tuesday

9:30-10am EDT	Spontaneous Emulsification of Crude Oils during Low Salinity Waterflooding W. Song, UT Austin
10:00am-10:15am	Discussion/Break
	<i>Colloidal and Interfacial Phenomena Related to Oil/Gas Applications</i> <i>Chair: V. Prigiobbe, Stevens Institute of Technology</i>
10:15am-10:30am	Interaction of encapsulated alkylbenzene sulfonate surfactants with water-wet and oil-wet calcite surfaces A. Gizzatov, Aramco Research
10:30am-10:45am	Lignin Nanoparticles As A Sustainable Alternative for In Situ Bioremediation A. Pete, Louisiana State U.
10:45am-11:00am	Coalescence behavior of asphaltene-coated oil-water interfaces J. Ma, Carnegie Mellon U.
11am-11:15am	Evaluating the stability of model asphaltene-stabilized water-in-oil emulsions in microfluidic devices Z. Zhang, Rice U.
11:15am-11:30am	Microscale Physics in Oil Displacement by Complex Liquids in Porous Media M. Carvalho, PUC-Rio
11:30am-11:45am	Discussion/Break
	<i>Colloidal Hydrodynamics</i> <i>Chair: J. Richards, Northwestern U.</i>
11:45am-12:00pm	Controlling capillary fingering using pore size gradients in disordered media N. Lu, Princeton U.
12:00pm-12:15pm	Effect of Mineral Structure and Solution Chemistry on the Hierarchical Assembly of Clay-Minerals M. Dor, Hebrew U.
12:15pm-12:30pm	Hydrodynamic interactions effect on the aggregation of colloidal dispersions in the presence of sedimentation M. Lattuada, U. Fribourg
12:30pm-12:45pm	Grain Boundary Dynamics in Magnetically Actuated Colloidal Crystals D. Lobmeyer, Rice U.
12:45pm-1:15pm	Discussion/Break

Tuesday

<i>Interfacial Phenomena</i> <i>Chair: S. Hashmi, Northeastern U.</i>	
1:15pm-1:30pm	Nanotribology of Phosphonium Phosphate Ionic Liquid: a Combined Atomic Force Microscopy and Surface Spectroscopic Study F. Mangolini, UT Austin
1:30pm-1:45pm	Effect of liquid capillarity on microscale indentation of a soft silicone substrate J. Pham, U. Kentucky
1:45pm-2:00pm	Drop bouncing dynamics on draining films: the influence of the entrained air layer Z. He, Baylor U.
2:00pm-2:15pm	Tuning vaporization threshold by interfacial melting in endoskeletal and exoskeletal perfluoropentane droplets G. Shakya, U. Colorado-Boulder
2:15pm-2:30pm	How does a paint bubble pop? : Rupture dynamics of colloidal soap films P. Shah, Northwestern
2:30pm-2:45pm	Discussion/Break
<i>Nanomaterials</i> <i>Chair: M. Jones, Rice U.</i>	
2:45pm-3:00pm	Manufacturing Functional Materials from 1D and 2D Nanomaterial Dispersions V. Davis, Auburn U.
3:00pm-3:15pm	Concentrating gold nanoparticles via anti-solvent precipitation for fabricating gold-loaded physically crosslinked PVA contact lenses Z. Liu, Colorado School of Mines
3:15pm-3:30pm	Trochoidal Dichroism L. McCarthy, Rice. U.
3:30pm-3:45pm	Stacking dynamics of monolayer graphene particles at a fluid-fluid interface D. Goggin, Colorado School of Mines
3:45pm-4:15pm	Discussion/Break

Wednesday

9:30-10am EDT	Electrochemical Interfaces for Molecularly-Selective Separations X. Su, UIUC
10:00am-10:15am	Discussion/Break
	<i>Active Colloids I</i> <i>Chair: B. Bharti, LSU</i>
10:15am-10:30am	Floor- or ceiling-sliding for chemically active, gyrotactic, sedimenting Janus particles M. Popescu, Max Planck Institute for Intelligent Systems, Stuttgart, Germany
10:30am-10:45am	Self-propulsion of Active Colloids via Ion Release: Theory and Experiments M. De Corato, Barcelona IST
10:45am-11:00am	Fuel-Mediated Transient Clustering of Colloidal Building Blocks B. van Ravensteijn, Utrecht University
11am-11:15am	Vapor-liquid phase transition and equilibrium of superparamagnetic colloids under a high frequency rotational magnetic field K. Joshi, Rice U.
11:15am-11:30am	Non-linear propulsion of active colloids J. Lee, Louisiana State U.
11:30am-11:45am	Discussion/Break
	<i>Active Colloids II</i> <i>Chair: C. Silvera Batista, Vanderbilt U.</i>
11:45am-12:00pm	Active Motion of Janus Droplets: Tuning Squirmers via Droplet Morphology X. Wang, Cornell U.
12:00pm-12:15pm	A simple and flexible strategy for the preparation of non-spherical Janus particles M. Lattuada, U. Fribourg
12:15pm-12:30pm	Dynamics of DNA-linked Colloidal Filaments under Asymmetric Time-Varying Magnetic Fields A. Spatafora Salazar, Rice University
12:30pm-12:45pm	Collective migration of bacteria in disordered media T. Bhattacharjee, Princeton U.
12:45pm-1:15pm	Discussion/Break

Wednesday

	<i>Anisotropic Colloidal Assembly</i> <i>Chair: Q. Chen, UIUC</i>
1:15pm-1:30pm	Assembly and reconfiguration of clusters formed by isotropic and anisotropic colloids A. Al Harraq, Louisiana State U.
1:30pm-1:45pm	Imaging and Interferometric Analysis of Anisotropic Particles at Fluid Interfaces Under the Influence of External Electric Fields S. Treveen, U. Mass Amherst
1:45pm-2:00pm	Oxidation and stabilization of colloidal 2D MXene nanosheets X. Zhao, Texas A&M
2:00pm-2:15pm	Self-assembly of size- and shape-controlled 2D materials at an air-water interface D. Goggin, Colorado School of Mines
2:15pm-2:45pm	Discussion/Break
	<i>Colloidal and Interfacial Rheology</i> <i>Chair: L. Biswal, Rice U.</i>
2:45pm-3:00pm	Multiscale dynamics of colloidal deposition in porous media N. Bizmark, Princeton U.
3:00pm-3:15pm	Shear processing of diblock polymer solutions to achieve rapid equilibrium phase behavior C. Valentine, Carnegie Mellon U.
3:15pm-3:30pm	Role of extensional rheology on droplet bouncing M. Pack, Baylor U.
3:30pm-3:45pm	Dynamic mobility of surfactant stabilized nano-drops: unifying equilibrium thermodynamics, electro-kinetics and Marangoni effects R. Hill, McGill U.
3:45pm-4:00pm	Pt-SiO ₂ Janus Particles near the Water/Oil Interface: A Competition Between Motility and Thermodynamics Z. Jalilvand, CCNY
4:00pm-4:30pm	Discussion/Break