

7th Annual Texas Soft Matter Meeting Program

Time	Talk No.	Presenter	Title
8:30 AM		Intro Remarks	
8:40 AM		Invited Talk: Kirk Schanze, UTSA	Conjugated Polyelectrolytes in Biosensing and Disinfection
9:20 AM		Contributed Talks #1: Devices, Assemblies, and Chemistries	
	9:20	1 Morgan Barnes, Rice University	Mechanically Programming Complex Reversible Shape Changes in Liquid Crystal Elastomers
	9:25	2 Ian Echols, Texas A&M	Conductive MXene Multilayer Films as Sensors
	9:30	3 Tzu-Han Li, Univ Houston	Effect of Dispersity on the Conformations of Spherical Polymer Brushes
	9:35	4 Wanmei Sun, Texas A&M	Electrochemically Exfoliation of Graphene and its use in Polymer Composites
	9:40	5 Naureen Suteria, Texas Tech	eCapillary: A disposable microfluidic extensional viscometer for low-viscosity polymer solutions
	9:45	6 Jacob Baltzegar, UT Austin	Polymeric Vitrificants for Cryopreservative Applications
	9:50	7 Paul Meyer, UT Austin	Pitch-Division Photolithography at 365 nm
	9:55	8 Minjie Shen, Univ Houston	Sustainable and Degradable Epoxy Resins Containing Multifunctional Biobased Components
10:00 AM		Coffee Break	
10:20 AM		Invited Talk: Sindee Simon, Texas Tech	Polymerization Kinetics and Thermodynamics Under Nanoconfinement
11:00 AM		Contributed Talks #2: Structure and Mechanics	
	11:00 AM	9 Pilar Suarez-Martinez, Texas A&M	Effects of Temperature and Water on the Dynamic Mechanical Behavior of PAH/PAA Polyelectrolyte Complexes: Time-Temperature and Time-Water Superposition Principles
	11:05 AM	10 Sadjad Arzash, Rice University	Stress-stabilized sub-isostatic rope networks
	11:10 AM	11 Siddhartha Gupta, Texas Tech	Holographic rheology of viscoelastic microchannel flows
	11:15 AM	12 Na Park, Univ Houston	Shear thickening in suspensions with depletion attractions
	11:20 AM	13 Xuejian Chen, Univ. Houston	Concentration fluctuations in the early stages of LLPS and partial dissolution of melt-memory in broadly distributed ethylene copolymers
	11:25 AM	14 Verma Lakshman, Univ Houston	Solvent Structuring at the Interface between Crystal and mixed Aqueous-Organic Solvent
11:30 AM		Invited Talk: Keith Keitz, UT Austin	"Living" Radical Polymerization with Electroactive Bacteria
12:10 PM		Lunch	
		Invited Talk: Carlos Lopez-Barron, ExxonMobil	Molecular and Crystal Alignment of Highly Entangled α-Olefin Molecular Bottlebrushes During Uniaxial Deformation
1:55 PM		Contributed Talks #3: Soft Matter Transport and Dynamics	
	1:55 PM	15 Joshua Moon, UT Austin	Gas transport properties of polymer blends containing polybenzimidazoles
	2:00 PM	16 Deepak Mangal, Univ Houston	Modeling of nanoparticle transport through geometrically confined media
	2:05 PM	17 Jordan Keith, UT Austin	Exploring Counterion Effects on Ion Transport in Polymerized Ionic Liquids
	2:10 PM	18 Renjie Chen, Univ Houston	Simulating nanoparticle dynamics in semidilute polymer solutions with multiparticle collision dynamics
	2:15 PM	19 Ryan Roberts, Univ Houston	Dynamics of Tracer Particles in Aging Colloidal Glasses
	2:20 PM	20 Ali Slim, Univ Houston	Dynamics of Nanoparticles Grafted with High Molecular Weight Polymers in Polymer Solutions
	2:25 PM	21 Martin Pospisil, Texas A&M	Orientation Dynamics of Cellulose Nanocrystals in Thin Film Formation
2:30 PM		Coffee Break	
		Invited Talk: Tania Betancourt, Texas State	User and Disease-Controlled Functional Polymeric Nanomedicines for Cancer Detection and Treatment
2:50 PM			
3:30 PM		Contributed Talks #4: Interfaces with Biology	
	3:30 PM	22 Daniel Harrington, UT Health	Mouth-Watering Hydrogels for Salivary Gland Regeneration
	3:35 PM	23 Kiheon Baek, UT Austin	Self-assembling nucleo-tripeptide platform hydrogel for cell scaffold and controlled drug delivery
	3:40 PM	24 Maxwell Smith, Univ Houston	Dynamics of Filamentous Viral Nanoparticles in Semi-Dilute Polymer Solutions
	3:45 PM	25 Layla Bakhtiari, UT Austin	Investigating the Effects of Biofilm Viscoelasticity on Immune Cell Phagocytosis
	3:50 PM	26 Gang Fan, UT Austin	S. oneidensis as a Living Electrode for Controlled Radical Polymerization
	3:55 PM	27 Nishat Anjum, Texas Tech	Emulsification with surfactant-nanosheets mixtures
4:00 PM		Poster Session & Reception	
5:30 PM		End	

Poster Presentations

#	Name		Affiliation	Title
1	Dipak	Aryal	UT Austin	Reversal of Salt Concentration Dependencies of Salt and Water Diffusivities in Polymer Electrolyte Membranes
2	Aaron	Burkey	UT Austin	PEG-based Polyampholytes as Cryopreservatives for the Frozen Storage of Living Cells
3	Sixue	Cheng	Texas Tech University	Nano-confinement Effect on Glass Transition and crystallization Behavior of Amorphous Pharmaceutical Nifedipine
4	Narenrda	Dewangan	University of Houston	Effect of dispersants on adhesion of bacteria on oil/water interfaces
5	Wenyue	Ding	University of Houston	Incorporation of a Transient Network in Triblock Copolymers with a Long-Chain Polyacrylate Midblock
6	Shaoxun	Fan	Rice University	Phase field modeling of surfactant micellar growth and splitting behavior
7	Paraskevi	Flouda	Texas A&M	Aramid Nanofiber/Functionalized Graphene Composite Electrodes for Structural Energy and Power
8	Yunxiang	Gao	Prairie View A&M University	Geometry-selectively Using Silver Nanowires as Nano-fillers for Enhanced Photo-/Thermo-actuation in Liquid Crystalline Elastomers
9	Mario	Gonzalez	University of Houston	Synthesis and Study of Symmetric Olefin-Bridged Bidentate Adsorbates and their Monolayers on Gold
10	Austin	Graham	UT Austin	Responsive polymer networks controlled by bacterial metabolism
11	Semih	Gulec	Lamar University	Studying Drop Tribology on Solid Surfaces
12	Jennifer	Imbrogno	UT Austin	MOD Initiators: Increased Polymerization Rate and Mechanistic Understanding
13	Sanket	Kadulkar	UT Austin	Insights into ion transport and rheology of novel colloid-polymer gels with enhanced colloid surface transport pathways
14	Morikawa	Kai	Texas A&M University	A Novel Approach for Melt Electrospinning of Polymer Fibers
15	Ji Yeon	Kim	UT Austin	Patternable Materials and Process Designs for Next Generation Lithography
16	Kovach	Kristin	UT Austin	Targeting Bacterial Biofilm Polymeric Matrix to Treat Infections

17	Ziyang	Lan	UT Austin	Development of 3D printed hydrogel dressing for Improved Chronic Wound Healing
18	Qi	Li	Texas Tech	Nanomechanical Behaviors of Free Standing Polystyrene Thin Films in Glassy Regime
19	Shuhao	Liu	Texas A&M University	Modification of metal surfaces with superhydrophobic nanotextures for enhanced food safety and hygiene
20	Dimitris	Loufakis	Texas A&M University	Strain-Dependent Electrical Resistance of Reduced Graphene Oxide - Aramid Nanofiber Composite Films
21	Amanda	Marciel	Rice University	Engineering Precision Polymers for Advanced Materials Applications
22	Melanie	Merrick	UT Austin	High Temperature Gas Separation Properties of PBI Membranes
23	Anish	Patel	Texas A&M University	Aramid Nanofiber/Graphene/Carbon Nanotube Composite Electrodes for Structural Energy and Power
24	Lakhe	Pritishma	Texas A&M University	Calorimetry of Explosive Thermal Decomposition of Graphite Oxide
25	Rituparna	Samanta	UT Austin	Influence of protein charge patches on the structure of protein-polyelectrolyte complexes
26	Katsuri	Sarang	Texas A&M University	Electrochemical investigations of ion and electron conducting electro-active polymer for use in energy storage
27	Bill	Wheatle	University of Texas at Austin	Effect of Polymer Polarity on Ionic Transport: Competition between Ion Aggregation and Segmental Dynamics
28	Sakshi	Yadav	Lamar University	Studying Drop Tribology on Solid Surfaces
29	Yagmur	Yegin	Texas A&M University	Design and Application of Polymeric Nanoparticles against Bacterial Pathogens
30	Dongyan	Zhu	Rice University	Network Stabilized Bulk Heterojunction Organic Photovoltaics
31	Qingjun	Zhu	UT Austin	Self-assembly of Block Copolymers for Engineering Applications