

**Session 1: Soundbites (9:10-9:55 AM) & Posters (9:55-10:25 AM)**

Soundbite	Poster	Name	Affiliation	Title
1		Ramesh, Srivatsan	NC State	Recovery of fabric functionality using dual stimuli-responsive microgels
2		Ouchi, Tetsu	Duke	Gated mechanoacid incorporated into radical polymerization systems
3		Zheng, Xujun	Duke	Strengthening hydrogel through force
4		Lloyd, Evan	Duke	Manufacturing High Performance Materials via Frontal Polymerization
5		Diwakar, Nidhi	NC State	Asymmetric AC Field Powered Propulsion of Active Particles
6		Bachmann, Adam	NC State	Lasers in Rapid Prototyping
7		Wang, Shu	Duke	Reactivity that you can feel in Network Fracture
8	8	Saha, Tamoghna	NC State	Osmotic Capillary Principles for Microfluidic Pumping and Fluid Management for Sweat Sensing Devices
9	9	King, Andrew	UNC	Dinuclear Catalysis for Universal Conjugated Polymer Synthesis
10	10	Yu, Shawn	Duke	
11	11	Navarro, Luis	Duke	Microphase Separation of RLP and ELP Diblock Copolypeptides in Concentrated Solutions
12	12	Chittari, Supraja	UNC	Macromolecular Time Capsules: Imparting Life-Like Intelligence into Synthetic Systems
13	13	Ma, Jinwoo	NC State	Liquid metal for reconfigurable, stretchable electronics
14	14	Yang, Yunqi	Duke	Programmable site-specific functionalization of DNA origami with polynucleotide brushes
15	15	Smith, Kristine	NC State	Relating Flow and Microstructure of Polymer Bridging Colloidal Gels
16	16	Lee, Hanjoo	UCSD	Soft Robotics through Rapid Droplet Evaporation
17	17	Im, Sooik	NC State	Local stiffness control in double network hydrogels
	18	Zheng, Mingyuan	Duke	Characterization and Efficient Monte Carlo Sampling of Disordered Microphases
	19	Mahmood, Akhlak-UI	NC State	All-atom simulations of the effect of solvent on the ligand stripping from nanoparticles
	20	Dewey, Hannah	NC State	Development of Optical Nanosensors for Real-Time, Wireless Detection of Biomarkers for Personal Health Monitoring
	21	Biswas, Manik Chandra	NC State	"Biobased" Glucaric Acid Strengthened Cellulose Acetate Fibers
	22	Rashid, Taslim Ur	NC State	Investigation of the electrospinnability of polymer solutions using tubeless siphoning

**Session 2: Soundbites (10:25-11:10 AM) & Posters (11:10-11:40 AM)**

Soundbite	Poster	Name	Affiliation	Title
1		Taylor, Hailey	UNC	Investigating Helicity & Metal Binding in an Assembled System
2		Coghlan, Kevin	UNC	Synthesis and Assembly of Decodable Biohybrid Polymer Libraries
3		Sanders, Matthew	UNC	Correlating Primary Sequence Design with Protein-mimetic Single Chain Hydrophobic Collapse
4		Allen, Benjamin	UNC	Controlling Morphology of Peptide-Polymer Amphiphile
5		Danielsen, Scott	Duke	Mucus & "Sticky" Associative Polymers
6		Kilgour, Katie	NC State	3D Patterned Hydrogels to Control the Release of Growth Factors for Angiogenesis and Vasculogenesis
7		Siddika, Salma	NC State	Thermomechanical relaxations of thin film semiconducting polymers and polymer blends
8	8	Turner, Berndan	NC State	Tissue-integrated, wireless, and resorbable circuit board for application in implantable medical devices
9	9	Day, Erin	UNC	Correlating Primary Sequence Design of Peptoids with Protein-mimetic Single Chain Hydrophobic Collapse
10	10	Pandiyarajan, CK	NC State	UV- and thermally-active small bi-functional gelator for creating gradient polymer network coatings
11	11	Dykeman-Birmingham, Peter	UNC	Controlling higher order structure of amphiphilic polymers with diphenylalanine
12	12	Sheridan, Richard	Duke	Vanishing Calibration Error with Magic Ratio AFM: Improving the Accuracy of Modulus Measurement Through Error Propagation Analysis
13	13	Cushman, Kyle	UNC	Investigating the Stress Strain Behavior of ROMP-based Brush Elastomers
14	14	Bang, Rachel	NC State	Formation of colloidal morphologies by a liquid shear-based nanofabrication techniques
15	15	Lalonde, Jessica	Duke	A Machine Learning Approach to Investigate Degradation of Poly(hydroxyalkanoates)
16	16	Pech, Matthew	NC State	Synthetic Approaches Toward Azaacenes
17	17	Morse, Peter	Duke	Memory formation in jammed hard spheres and an emerging non-equilibrium gardner-like transition
	18	Rahmani, Farzin	NC State	Molecular simulation insights on the interfacial properties of cellulose and crosslinked ionic liquid epoxy
	19	Woo, Sunyoung	NC State	Creating surface-anchored polymer network by using functional small molecular gelators
	20	Cooke, Rachel	UNC	Synthesis and Assembly of Decodable Biohybrid Polymer Libraries
	21	Barbieri, Eduardo	NC State	Integration of Antimicrobial Peptides with Nonwoven Substrates
	22	Daga, Bijoy	Duke	Modeling segmented pattern formation of the zebrafish notochord

**Session 3: Soundbites (11:40 AM-12:25 PM) & Posters (12:25-2:00 PM)**

Soundbite	Poster	Name	Affiliation	Title
1		Schrickx, Harry	NC State	Exceptional Optical Anisotropy in Conjugated Polymer Thin Film
2		Rahmanian, Vahid	NC State	Multifunctional 3D self-supported hybrid aerogels constructed from sol-gel electrospun nanofibers
3		Kruse, Benjamin	UNC	Templating Entanglements in Polymer Networks
4		Petrecca, Michael	NC State	Applications of soft dendritic colloids in electrochemical devices
5		Brooks, Jacob	UNC	Actuating Surface Attached Post (ASAP) Arrays
6		French, Daniel	Duke	Mucin Analogues for Inhibiting Recurrent Kidney Stone Disease
7	7	Pradeep, Shravan	NC State	Towards designing shear thickening in dense colloidal suspensions
8	8	Rizvi, Mehedi Hasan	NC State	Plasmon-Coupled Gold Nanoparticles in Stretched Shape Memory Polymers
9	9	Mukherjee, Sneha	NC State	Paper Microfluidic Based Wearable Patches for Potassium & Cortisol Sensing in Sweat
10	10	Pinky, Sabila Kader	NC State	Role of solvents and surfactants in controlling polyfluorene emulsion properties: An atomistic approach
11	11	Shamsi, Milad	NC State	Thermoplastic Elastomer Gel Nonwoven Fabrics
12	12	Vaghani, Dhwanil Pravinbhai	NC State	Inject Printing of Liquid metal on soft substrates
13	13	Johnson, Drake	UNC	Carbodiimide Ring-Opening Metathesis Polymerization
14	14	Nithyanandam, Praneshnandan	NC State	Understanding electrochemically controlled surface tension liquid metals
15	15	Verster, Lucille	NC State	Microplastic remediation using biodegradable soft dendritic colloids
16	16	Okello, Lilian	NC State	Engineering the Properties of Homocomposite Capillary Pastes for 3D Printing of Soft Actuators and Bioscaffolds
	17	Castellanos, Natasha	NC State	Magnetically aligned PDMS beads and 3D printed architectures
	18	Kwon, Kiyoon	SKKU	A liquid metal mediated metallic coating for antimicrobial and antiviral fabrics
	19	Shukla, Darpan	NC State	Screen printing of water-based silver nanowire ink for flexible electronics
	20	Wright, Zoe	UNC	Mapping Uncharted Design Space for Peptide-Polymer Amphiphiles