

SPRING 2023 POSTER SYMPOSIUM

Thursday May 18th, 4-6PM

No.	Presenter	Author(s)	Poster Title	Advisor	Presenter Email(s)
1	Jerred Wassgren	Jerred Wassgren, Kenneth R. Carter	Strong Nanocellulose Aerogels Modified with Arginine for Carbon Dioxide Capture	Carter	jwassgren@mail.pse.umass.edu
2	Anne Radzanowski	Anne Radzanowski, Monika Ramini, Chien-Hua Tu, Eli Fastow, Karen I. Winey, E. Bryan Coughlin	Functionalization of polycyclooctene for chemical upcycling to polyethylene copolymers	Coughlin	aradzanowski@umass.edu
3	Roshni John Chethalen	Roshni John Chethalen, Eli Fastow, Karen I. Winey, E. Bryan Coughlin	Thiolene click chemistry for the functionalization of model dehydrogenated polyethylene to introduce acid-containing pendant groups	Coughlin	rchetalen@umass.edu
4	Demi E. Moed	Demi E. Moed, Alfred J. Crosby	Mesoscale Polymer Ribbon Arrays: Biofilm-Inspired Flexible, Fibrillar Adhesives	Crosby	dmoed@umass.edu
5	Meredith M. Taghon	Meredith M. Taghon, Alfred J. Crosby	Spring-driven dynamics of adhesively-latched soft surfaces for power-amplification	Crosby	mtaghon@umass.edu
6	Deborah Snyder	Deborah Snyder, Jing Zhao, Zhefei Yang, James Nicolas Pagaduan, Zehao Pan, Abraham Waldman, Alfred J. Crosby, Howard A. Stone, and Todd Emrick	Nature Inspired Materials Design: Functional Zwitterions and Smart Droplets	Emrick	djsnyder@umass.edu
7	Zhefei Yang	Zhefei Yang, Carla Steppan, Deborah Snyder, James Nicolas Pagaduan, Abraham Waldman, Alfred J. Crosby*, Todd Emrick*	Mesoscale Polymer Ribbon: Photolithographic Production and Localization at Droplet Interfaces	Emrick	yangzhef@umass.edu
8	Hong-Gyu Seong	Hong-Gyu Seong, Zachary Fink, Zhan Chen, Todd Emrick*, Thomas P. Russell*	Bottlebrush Polymers at Fluid Interfaces: Nanoscopic Structure-Macroscopic Property Relationships	Emrick, Russell	hseong@umass.edu
9	Gabby Ho	Gabrielle Ho, Deborah Snyder, Todd Emrick, Weiguo Hu	Hydration and Dynamics of Poly(2-methacryloyloxyethyl phosphorylcholine) in Liquids Studied by NMR Spectroscopy	Hu	gho@umass.edu
10	Autumn M Mineo	Autumn M Mineo, Reika Katsumata	Universal additive monomers for reprocessable thermoplastics and thermosets	Katsumata	amineo@umass.edu

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11	Brian Minsik Jun	Brian M. Jun, Thomas J. McCarthy	Vinyldimethylsilylated carbohydrates as polydimethylsiloxane crosslinkers	McCarthy	bmj@umass.edu
12	Xianci Zeng	Xianci Zeng, Alex Lawton, Pratik Joshi, Caryn Heldt, and Sarah L. Perry	Exploring the Effects of Osmolytes on Complex Coacervation	Perry	xiancizeng@umass.edu
13	Isaac A. Ramírez Marrero	Isaac A. Ramírez Marrero, Luke Boudreau, Emily Ng, Sarah L. Perry, Chemical Engineering, UMass Amherst Rupert Konradi, Bernhard von Vacano, Nadine Kaiser, BASF	Design Rules of Polyelectrolyte Complex Materials	Perry	iramirez@umass.edu
14	Jussara Alves Penido	Jussara Alves Penido, Watson Loh and Sarah Perry	Complex Coacervate Core Micelle in organic solvents	Perry	jalvespenido@umass.edu
15	Amy Lim	Amy J. Lim, Isaac A. Ramírez Marrero, Sarah L. Perry	Effect of Copolymer Chemistry on the Material Properties of Multiphase Complex Coacervates	Perry	alim@umass.edu
16	Yaozu Chen	Yaozu Chen, Isaac A. Ramírez Marrero, Sarah L. Perry	Polymer Chemistry Effects on the Linear Viscoelasticity of Polyelectrolyte Complexes	Perry	yaozuchen@umass.edu
17	Guinevere E. Tillinghast	Guinevere E. Tillinghast, Jonathan P. Rothstein, and H. Henning Winter	Rheological Characterization of Mechanically and Chemically Recycled Plastics	Rothstein, Winter	gtillinghast@umass.edu
18	Zhan Chen	Zhan Chen, Christian Steinmentz, Mingqiu Hu, E Bryan Coughlin, Hanyu Wang, William T Heller, Wim Bras, Thomas P. Russell	Star Block Copolymers: Efficient Polymer Compatibilizers	Russell	zhanchen@umass.edu
19	Alex McGlasson	Alex McGlasson, Zichen Jin, Eva Morgenthaler, Laura C. Bradley, Thomas P. Russell	On the Interfacial Assembly of Anisotropic Amphiphilic Janus Particles	Russell	amcglason@umass.edu

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20	Katelynn O'Donnell, Anthony Raykh	Katelynn O'Donnell, Anthony Raykh, Satyam Srivastava, Alex Ribbe, David Hoagland, and Thomas Russell	Studying Polymer-Grafted Nanoparticles at Liquid Interfaces	Russell, Hoagland	kaodonnell@mail.pse.umass.edu araykh@umass.edu
21	Sihang Chen	Sihang Chen, Eva Browne, Kaelly Farrell, Kathleen Arcaro and Maria Santore	Paper-based Breastmilk Collection System for Facile, In-Home Use	Santore	sihangchen@umass.edu
22	Hao Wan	Hao Wan, Geunwoong Jeon, Weiyue Xin, Greg Grason, Maria Santore	Membrane tension and bending alter the morphology of solid domains on curved membranes	Santore	hwan@umass.edu
23	Weiyue Xin	Weiyue Xin, Maria Santore	Controlled Patterning on Phospholipid vesicles.	Santore	wxin@umass.edu
24	Tomoko Yamazaki	Tomoko Yamazaki, Brandon R. Clarke, Gregory N. Tew	Recovery Behavior of Bottlebrush Amphiphilic Polymer Co-Networks	Tew	tyamazaki@umass.edu
25	Brandon R. Clarke	Brandon R. Clarke, Hyemin Kim, Mark Ilton, James J. Watkins, Alfred J. Crosby, Gregory N. Tew	Network Constitutional Isomers: Highlighting the Importance of Network Formation Chemistry	Tew	bclarke@mail.pse.umass.edu
26	Takumi Uchiyama	Takumi Uchiyama, Hyemin Kim, Alfred Crosby, James Watkins	Synthesis and Characterization of Polyrotaxane Crosslinked PDMS Bottlebrush Network	Watkins	tuchiyama@umass.edu
27	Yijie Zhou	Yijie Zhou, Yanfei Xu	Thermal Transport in Polymers for Sustainability	Xu	yijiezhou@umass.edu