

### Fall Polymer Workshop Event University of Massachusetts Amherst

# Soft Material Adhesion Tuesday October 10<sup>th</sup> – Thursday October 12<sup>th</sup> 2023 Conte Building Seminar Room A110/111



POLYMER SCIENCE AND ENGINEERING



#### Tuesday October 10, 2023

TIME: SESSION:

12:00 pm - 1:00 pm Arrival and Check-In

1:00 pm - 3:00 pm Introductory Lecture on Polymer Adhesion

Professor Al Crosby, University of Massachusetts - Amherst

3:00 pm - 3:30 pm Break

3:30 pm - 5:00 pm Laboratory Tours

5:30 pm - 7:30PM Buffet Dinner and Refreshments (Conte Atrium)



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#### Wednesday October 11, 2023

<b>TIME:</b> 8:30 am - 9:00 am	SESSION: Arrival, Check-In, and Continental Breakfast (Conte Atrium)
9:00 am - 9:45 am	Session Chair: Al Crosby, Polymer Science & Engineering Peeling in Extreme Environments: From Roadways to Human Skin Professor Chelsea Davis, University of Delaware
9:45am - 10:30 am	Using ROMP to Control the Mechanics of Bottlebrush Elastomers Professor Greg Tew, University of Massachusetts – Amherst
10:30 am - 10:45 am	Break
10:45 am – 11:30 am	Exploration of Stimuli Responsive Chemistry and Materials for Industrial Adhesive Systems Dr Jason Clapper, 3M
11:30 am - 12:15 pm	Multifunctional Hydrogel Fibers for Neural Modulation and Recordings Professor Siyuan Rao, Binghamton University, SUNY
12:15 pm - 1:15 pm	Buffet Lunch in the Conte Atrium
1:15 pm - 2:00 pm	Session Chair: David Hoagland, Polymer Science & Engineering Fun and Profit with Polymers Professor Steve Granick, University of Massachusetts - Amherst
2:00 pm - 2:10 pm	Break
2:10 pm - 2:30 pm	Session Chair: Melody Morris, Polymer Science & Engineering Designing Polyelectrolyte Complex Adhesives Isaac Ramirez Marrero, University of Massachusetts - Amherst
2:30 pm - 2:50 pm	Extreme Plasticity, Adhesion, and Nanostructural Changes of Diblock Copolymer Microparticles in Cold Spray Additive Manufacturing Ara Kim, University of Massachusetts – Amherst
2:50 pm - 3:10 pm	Hydrodynamic Flows Decide the Fate of Colloidal Filaments Bipul Biswas, University of Massachusetts – Amherst
3:10 pm - 3:30 pm	Untangling the Morphology and Properties of Bioinspired Fibrillar, Adhesive Mesoscale Polymer Ribbon Arrays Demi Moed, University of Massachusetts – Amherst
4:00 pm – 5:30 pm	Poster Session
6:00 pm	Banquet Dinner – Top of the Campus Center – Amherst Room – 10 <sup>th</sup> Floor



## Fall Polymer Workshop Event University of Massachusetts Amherst

#### Thursday October 12, 2023

TIME: SESSION:

8:30 am - 9:00 am Arrival, Check-In, and Continental Breakfast (Conte Atrium)

Session Chair: Greg Tew, Polymer Science & Engineering

9:00 am - 9:30 am Mechanical Aspects of Bacterial Adhesion and Their Consequences

Professor Maria Santore, University of Massachusetts - Amherst

9:30am - 10:00 am Wetting Translucency of Ultrathin Polymer Films

Professor Reika Katsumata, University of Massachusetts - Amherst

10:30 am - 12:00 pm Poster Session

12:00 pm Grab and Go Lunch