



Fall 2019 Polymer Event University of Massachusetts Amherst



Tuesday, October 15, 2019

Center for UMass-Industry Research on Polymers Cluster Meetings

TIME:	SESSION:	LOCATION:
12:00 pm – 1:00 pm	Lunch	Conte Atrium
1:00 pm – 3:00 pm	Cluster E Meeting – Polymers in Energy <i>(Members Only)</i>	Conte A624
1:00 pm – 3:00 pm	Cluster M Meeting – Mechanics of Polymers <i>(Members Only)</i>	Conte A111
1:00 pm – 3:00 pm	Cluster N Meeting – Nanostructured Materials <i>(Members Only)</i>	Conte A524
3:00 pm – 3:15 pm	Coffee Break	Conte Atrium
3:15 pm – 5:15 pm	Cluster F Meeting – Fire-Safe Polymers <i>(Members Only)</i>	Conte A110
3:15 pm – 5:15 pm	Cluster A Meeting – Polymers in Adhesion on Living Interfaces <i>(Members Only)</i>	Conte A111
5:15 pm - 8:00 pm	Informal Reception and Dinner	Conte Atrium
6:00 pm - 7:00 pm	PSE Alumni Panel Session	Conte A110/111



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University of Massachusetts Amherst



POLYMER SCIENCE AND ENGINEERING
UNIVERSITY OF MASSACHUSETTS AMHERST

Wednesday, October 16, 2019

Emerging Trends in Polymer and Material Science

Conte A110/111

TIME:	SESSION:
8:30 am - 8:55 am	Registration and Continental Breakfast (Conte Atrium)
8:55 am – 9:00 am	Welcome and Opening Remarks Prof. Bryan Coughlin and Prof. Ken Carter, UMass Polymer Science & Engineering Department
9:00 am - 9:40 am	<i>Some Ramifications of Structuring Liquids</i> Prof. Thomas Russell, UMass Polymer Science and Engineering Department
9:40 am - 10:20 am	<i>Rethinking Single-Chain Nanoparticles</i> Erik Berda, University of New Hampshire Chemistry Department
10:20 am - 10:35 am	Coffee Break (Conte Atrium)
10:35 am - 10:55 am	<i>Optical Shape Morphing Liquid Crystal Nanocomposites</i> Alexa Kuenstler (Hayward Group)
10:55 am - 11:15 am	<i>Reactive and Functional Droplets as Bioinspired Materials for Recognition and Transport</i> Ashlin Sathyan (Emrick Group)
11:15 am - 11:55 am	<i>Opportunities Beneath the Janus Surface</i> Prof. Laura Bradley, UMass Polymer Science & Engineering Department
12:00 pm - 1:00 pm	Lunch (Conte Atrium)
1:00 pm - 1:20 pm	<i>Competition Brings Out the Best: Selection of Supra-Domain Symmetries by Sub-Domain Packing in Block Copolymers</i> Abhiram Reddy (Grason Group)
1:20 pm - 1:40 pm	<i>How Do Ultrathin Polymer Films Fail?</i> Konane Bay (Crosby Group)
1:40 pm - 2:20 pm	<i>Poly(2-alkenyl azlactone)s: Versatile Polymers for the Synthesis of Multifunctional Gels and Drug Delivery Platforms</i> Prof. Maren Buck, Smith College Chemistry Department
2:20 pm - 2:40 pm	Coffee Break & Poster Sessions Setup
2:40 pm - 4:10 pm	Poster Session 1
4:15 pm - 5:45 pm	Poster Session 2
6:00 pm	Reception & Banquet Dinner at the Courtyard by Marriott, Hadley MA



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Emerging Trends in Polymer and Material Science

Conte A110/111

TIME:	SESSION:
8:30 am - 9:00 am	Registration and Continental Breakfast (Conte Atrium)
9:00 am - 9:40 am	<i>Renewable Production of Diene Monomers from Biomass Resources</i> Omar Abdelrahman, UMass Chemical Engineering Department
9:40 am - 10:20 am	<i>Making Old Polymers New Again: Expanding the Block Copolymer Toolbox</i> Barney Grubbs, SUNY Stony Brook Chemistry Department
10:20 am - 10:35 am	Coffee Break
10:35 am - 10:55 am	<i>Topologically Frustrated Polymer Dynamics: Gels, DNA, Silk...</i> Di Jia (Muthukumar Group)
10:55 am - 11:15 am	<i>Development of Hydrogel-Based Cell Stretching Devices as in vitro Models of Atherosclerotic Vessel Walls</i> Qi Lu (Hayward Group)
11:15 am - 11:55 am	<i>Leveraging Copolymer-Inorganic Interactions for Composites</i> Prof. Reika Katsumata, UMass Polymer Science & Engineering Department
12:00 pm - 1:00 pm	Lunch (Conte Atrium)
1:00 pm - 1:20 pm	<i>Fundamentals of Cellulose Nanocrystal Dispersions in Organic Media</i> Allen Chang (Carter Group)
1:20 pm - 1:40 pm	<i>Mesoscale Materials Design for Bioinspired Architectures</i> Dylan Barber (Crosby and Emrick Groups)
1:40 pm - 2:00 pm	<i>Light-Driven Assembly of Nanocomposite Gel Surfers</i> Hyunki Kim (Emrick and Hayward Groups)
2:00 pm - 2:40 pm	<i>Molecular Engineered Polymers with Metal-like Thermal Conductivity</i> Prof. Yanfei Xu, UMass Mechanical Engineering Department
2:40 pm - 3:00 pm	<i>Polymer Science & Engineering in India</i> Ashok Misra, Adjunct Faculty of PSE, NASI Distinguished Professor, Indian Institute of Science, Bangalore
3:00 pm - 3:20 pm	<i>Novel Approach to Recycle PU Elastomers</i> Polina Ware, LANXESS