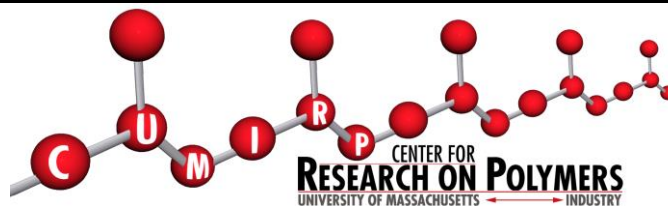




Fall 2018 Polymer Event University of Massachusetts Amherst



Tuesday, October 9, 2018

TIME:	SESSION:	LOCATION:
12:00 pm – 1:00 pm	Lunch	Conte Atrium
1:00 pm – 2:00 pm	Cluster A Meeting – Polymers in Adhesion on Living Interfaces <i>(Members Only)</i>	Conte A111
2:00 pm – 3:00 pm	Cluster A Meeting ... <i>(OPEN TO THE PUBLIC)</i>	Conte A111
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 A110
3:00 pm – 3:15 pm	Coffee Break	Conte Atrium
3:15 pm – 5:15 pm	Cluster B Meeting – Polymers in BioArena <i>(Members Only)</i>	Conte A524
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 N Meeting – Nanostructured Materials <i>(Members Only)</i>	Conte A624
5:15 pm – 7:15 pm	Informal Dinner	Conte Atrium

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POLYMER SCIENCE AND ENGINEERING
UNIVERSITY OF MASSACHUSETTS AMHERST

Wednesday, October 10, 2018
Conte Atrium, A110/111

TIME:	SESSION:
8:00 am - 8:30 am	Registration and Continental Breakfast
8:30 am - 8:45 am	Welcome and Introduction David Waldman, CUMIRP Director E. Bryan Coughlin, Professor and PSE Department Head (Chair: Harry Bermudez, Professor, UMass Amherst Polymer Science & Engineering)
8:45 am - 9:30 am	Basic Scientific Problems and Practices in Polymer Composites Xiaolin Xie, Professor and Provost, Huazhong University Yonggui Liao, Professor, Huazhong University Chemistry
9:30 am - 9:45 am	Polymer Mimics of Natural Proteins: From Antibody Delivery to New Networks Greg Tew, Professor, UMass Amherst Polymer Science & Engineering
9:45 am - 10:00 am	HIP Materials: Harnessing Interfacial Phenomena to Design New Soft Material Laura Bradley, Professor, UMass Amherst Polymer Science & Engineering
10:00 am - 10:15 am	Break (Chair: Laura Bradley, Professor, UMass Amherst Polymer Science & Engineering)
10:15 am - 11:00 am	Janus Composites Toward Interfacial Engineering Zhengzhon Yang, Professor, Tsinghua University Chemical Engineering
11:00 am - 11:15 am	Materials Mechanics for Impulsive Movement Alfred Crosby, Professor, UMass Amherst Polymer Science & Engineering
11:15 am - 11:30 am	Better Assemblies Through Geometric Frustration Greg Grason, Professor, UMass Amherst Polymer Science & Engineering
11:30 am - 11:45 am	Anion Exchange Membranes Bryan Coughlin, Professor and Head, UMass Amherst Polymer Science & Engineering
11:45 am - 1:00 pm	Lunch

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TIME:	SESSION:
	(Chair: David Hoagland, Professor, UMass Amherst Polymer Science & Engineering)
1:00 pm - 1:45 pm	Comb Block Polyolefins for Adhesives Patrick Brant, ExxonMobil Chemical Company Chief Polymer Science Advisor
1:45 pm - 2:00 pm	Surfaces for Selective Control of Bacterial Cells Maria Santore, Professor, UMass Amherst Polymer Science & Engineering
2:00 pm - 2:15 pm	Characterization of polymer properties using pressure dilatation Alan Lesser, Professor, UMass Amherst Polymer Science & Engineering
2:15 pm – 2:30 pm	Toward realistic cell membrane mimics Peter Beltramo, Professor, UMass Amherst Chemical Engineering
2:30 pm - 2:45 pm	Break
	(Chair: Sam Gido, Professor, UMass Amherst Polymer Science & Engineering)
2:45 pm - 3:30 pm	Molecular Engineered Dopant-free Hole Transporting Materials for Efficient Perovskite Solar Cells Zhongan Li, Professor, Huazhong University Chemistry
3:30 pm – 3:45 pm	New Polymer Syntheses for Electronic Materials and Bridging the Hard-Soft Materials Interface Todd Emrick, Professor, UMass Amherst Polymer Science & Engineering
3:45 pm – 4:00pm	Directed Self-Assembly of Functional Materials on Non-Ideal Surfaces Reika Katsumata, Professor, UMass Amherst Polymer Science & Engineering
4:00 pm – 4:15 pm	Modification of Cellulose Nanocrystals with Semiconducting Polymers Ken Carter, Professor, UMass Amherst Polymer Science & Engineering
5:00 PM	Reception and Banquet Dinner Courtyard by Marriott, Hadley, MA

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POLYMER SCIENCE AND ENGINEERING
UNIVERSITY OF MASSACHUSETTS AMHERST

Thursday, October 11, 2018
Conte Atrium, A110/111

TIME:	SESSION:
8:00 am - 8:30 am	Continental Breakfast (Chair: Reika Katsumata, Professor, UMass Amherst Polymer Science & Engineering)
8:30 am - 9:15 am	Self-Assembly of Polymer-Tethered Nanoparticles in Confined Spaces Jintao Zhu, Professor and Dean, Huazhong University College of Chemistry & Chemical Engineering
9:15 am - 9:30 am	Using External Fields to Manipulate Structured Liquids Thomas Russell, Professor, UMass Amherst Polymer Science & Engineering
9:30 am - 9:45 am	Tuning Co-Continuous and Anisotropic Nanostructures in Randomly End-Linked Copolymer Networks Ryan Hayward, Professor, UMass Amherst Polymer Science & Engineering
9:45 am – 10:00 am	Is there a difference between gels and soft glasses? Rheology can tell Henning Winter, Professor, UMass Amherst Chemical Engineering
10:00 am - 10:15 am	Break (Chair: Tom McCarthy, Professor, UMass Amherst Polymer Science & Engineering)
10:15 am – 11:00 am	Polymer Synthetic Methods Based on Self-Accelerating Click Chemistry Ke Zhang, Professor, Institute of Chemistry, Chinese Academy of Sciences
11:00 am - 11:15 am	From Nanoscale Science to Scalable Fabrication of High Performance Electronic, Optical and Energy Devices James Watkins, Professor, UMass Amherst Polymer Science & Engineering
11:15 am – 12:00 pm	Corporate Venturing for Innovation and Growth at Henkel Chuck Paul, Vice-President – Technology, Henkel
12:00 pm - 1:00 pm	Lunch

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Fall 2018 Polymer Event

University of Massachusetts Amherst

TIME:**SESSION:**

(Chair: Shaw Ling Hsu, Professor, UMass Amherst Polymer Science & Engineering)

1:00 pm - 1:45 pm	Exploring Polymer Physics by Single Molecule Fluorescence Spectroscopy Jiang Zhao, Professor, Institute of Chemistry, Chinese Academy of Sciences
1:45 pm – 2:00 pm	Surface-Enhanced Raman Spectroscopy, One Tool for Detection of Multi-Class Contaminants Lili He, Professor, UMass Amherst Food Science
2:00 pm - 2:15 pm	New Polymer Dynamics from Topological Frustration Murugappan Muthukumar, Professor, UMass Amherst Polymer Science & Engineering
2:30 pm - 4:00 pm	PSE Poster Session 1
4:05 pm - 5:35 pm	PSE Poster Session 2
5:30 pm	Informal Dinner in the Conte Atrium

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