Materials Research Science & Engineering Center (MRSEC)

Thursday, October 15, 2015
Conte A110 /111

8:30  Continental Breakfast – Conte Atrium

9:00  Opening Remarks and Center Update
Todd Emrick, UMass Department of Polymer Science & Engineering

9:20  3D Model Systems of Bone Metastatic Breast Cancer: Uncovering the Role of Dynamic Biomechanical Regulation
Maureen Lynch, UMass Department of Mechanical & Industrial Engineering

10:00 Photophysics and electronic characterization of small-molecule BODIPY dyes for use in organic photovoltaics
Elizabeth Young, Amherst College Department of Chemistry

10:40  Coffee Break – Conte Atrium

11:15  Functional Hybrid Materials using Self-Assembly and Nanoimprint Lithography
Jim Watkins, UMass Department of Polymer Science & Engineering

12:00 Lunch – Conte Atrium

1:00  Snapping Structures from Folding Forms: Origami-Inspired Mechanisms for Rapid Motion
Chris Santangelo, UMass Department of Physics

1:40  Growth, buckling, and meso-scale assembly of filaments and ribbons
Ryan Hayward, UMass Department of Polymer Science & Engineering

2:20  Synthetic Biology of e-Pili: Robust Microbial Nanowires with Metallic-Like Conductivity
Derek Lovley, UMass Department of Microbiology

3:30 - 5:30  Poster Session and Refreshments