Purdue University School of Materials Engineering

9th Annual Soft Materials Summer Research Symposium

Summer 2	<i>022</i> • <i>Tuesdays</i> • <i>11:00 AM</i> • <i>FRNY B124</i>
June 7	Developing coarse grained simulations of liquid crystals with genetic algorithms Dylan Fortney (PI: Savoie, CHE)
	Discontinuous shear-thickening of highly-loaded polymer-ceramic suspensions Ria Corder, Ph.D. (PI: Erk, MSE)
June 14	Visualizing stresses via cutting of an elastomer utilizing mechanophores Tyler Roberts (PI: Beaudoin/Davis, CHE)
	Effect of Magnetic Remanence on Mechanics of Magneto-Rheological Elastomers Jacob McGough (PI: Christov/Cushman, ME)
June 21	Balancing mechanical and conductive properties in radical polymer systems Dylan Gilley (PI: Savoie, CHE)
	Influence of processing on extrudate in extrusion deposition additive manufacturing Pasita Pibulchinda (PI: Pipes, AAE)
June 28	Mechanical testing and modeling of auxetic foams for rehabilitation applications Chaithanya Vinay Valivarthy (PI: Youngblood, MSE)
	Damage quantification in polymer composite utilizing mechanophore Nazmul Haque (PI: Davis, MSE)
July 5	NO Meeting – Happy 4 th of July Week!
July 12	Nanocellulose coated all bio-based molded pulp containers for food packaging Jingxuan Zhang (PI: Youngblood, MSE)
	Rheology of concentrated surfactant solutions Parth Kelkar (PI: Erk, MSE)
July 19	Designing mechanically robust thermal interface materials Geeta Pokhrel (PI: Davis/Howarter, MSE)
	Predicting cation performance in hybrid perovskites Panayotis Manganaris (PI: Mannodi Kanakkithodi, MSE)
July 26	Sub-nanometer precision polymer patterning on glass Emmanuel Nava (PI: Claridge, CH)
	Characterizing soft materials with recurrent and physics-informed neural networks Paul Mitalski (PI: Christov/Cushman, ME)