Polymer Nanocomposites 2016 October 16-18, Lehigh University (Iacocca Hall) Sponsored by Society of Plastics Engineers Lehigh Valley Section

Clinia on 2D Drinting	Wilbur Powerhouse, Lehigh University
Clinic on 3D Printing Moderator: Rav Pear	of Polymers son (Professor, Lehigh University)
6:00 PM – 7:00 PM	Networking Session
7:00 PM – 8:30 PM	Speaker: Brian Slocum (Director of Wilbur Powerhouse, Lehigh University) Overview of 3D Printing
Monday, October 17	- Woods Dining Room (lacocca Hall, Lehigh University)
	of Polymer Nanocomposites
Moderator: Ray Pears	son (Professor, Lehigh University)
8:00 AM – 8:45 AM	Continental Breakfast (Woods Dining Room, laccoca Hall, Lehigh University) On-Site Registration and Pick-Up Proceedings on CD
8:45 AM – 9:00 AM	Welcome and Introduction (Organizers)
9:00 AM - 10:00 AM	Keynote Speaker: Alan Lesser (Professor, UMass-Amherst) Melt-mastication: A new route to process semi-crystalline nanocomposites with enhanced physical and mechanical properties
10:00 AM - 10:30 AM	Speaker: Mehdi Tajvidi (Professor, University of Maine)) AM-FM Viscoelastic Mapping: applications for nanocomposites mechanical characterization
10:30 AM - 11:00 AM	Coffee Break & Vendor Exhibit
11:00 AM – 11:30 AM	<u>Speaker:</u> Christopher Junk (Visiting Scientist, Lehigh Unviersity) Ultralow Wear Fluoropolymer Composites: nanoscale functionality from microscale fillers
11:30 AM – 12:00 PM	<u>Speaker:</u> Binay Patel (Postdoc, Zzyzx Polymers) Fracture behavior of epoxy-filled with silica nanoparticles
12:00 PM - 1:30 PM	Lunch & Vendor Exhibit
Polymer Nanocompo Moderator: tbd	sites for 3D Printing (SLS)
1:30 PM - 2:30 PM	Keynote Speaker: Ray Pearson (Professor, Lehigh University) Developing polymer nanocomposites for selective laser sintering
2:30 PM - 3:00 PM	Speaker: Yuanyuan Wang (Graduate Student, Lehigh University) Comparing the processing behavior of PA11 and PA 12 SLS powders
3:00 PM - 3:30 PM	Coffee Break & Vendor Exhibit
4:00 PM - 4:30 PM	<u>Speaker:</u> Jiten Dhori (Vice President of Technology, Spray-Tek, Inc) Spray drying inorganic and organic suspensions
4:30 PM - 5:00 PM	<u>Speaker:</u> Greg Martiska (Mercury Scientific, Inc.) Characterizing the flow behavior of SLS powders using the Revolution Powder Analyzer
5:00 PM - 7:00 PM	Reception, Graduate Student Poster Session & Vendor Exhibit
Tuesday, October 18	- Woods Dining Room (Iacocca Hall, Lehigh University)
Polymer Nanocompo Moderator: tbd	sites for 3D Printing (FDM)
8:00 AM – 8:45 AM	Continental Breakfast (Woods Dining Room, laccoca Hall, Lehigh University) On-Site Single Day Registration and Pick-Up Proceedings on CD
8:45 AM – 9:00 AM	Welcome and Introduction (Organizers)
9:00 AM – 10:00 AM	Keynote Speaker: Douglas Gardner (Professor, University of Maine) An approach to enhance material property performance in 3D (FLM) printing using cellulose nanofibril-filled polymer composites
10:00 AM - 10:30 AM	Speaker: Kirk Cantor (Professor, Penn College) Precision extrusion of filament for 3D printing
10:30 AM - 11:00 AM	Coffee Break & Vendor Exhibit
11:00 AM – 11:30 AM	<u>Speaker:</u> Micheal Mackay (Professor, University of Delaware) Modeling the hot end in a plasticating FDM extruder
11:30 AM – 12:00 PM	<u>Speaker:</u> Richard Vinci (Professor, Lehigh University) Effect of printing parameters on the mechanical behavior of FDM materials
12:00 PM - 1:00 PM	Lunch & Vendor Exhibit
Ellectrically Conduct Moderator: tbd	ing Polymer Nanocomposites
1:00 PM - 2:00 PM	Keynote Speaker: Erik Thostenson (Professor, Universityof Delaware) Thermoresistive response of carbon nanotube and nanotube/fiber hybrid nanocomposites
2:00 PM - 2:30 PM	Speaker: Angelos Kyrlidis (Scientist, Cabot) Advances in conductive nanocomposites with new carbon blacks and graphenes
2:30 PM - 2:45 PM	Coffee Break
2:45 PM - 3:15 PM	Speaker: Paul Brigandi (Engineer, Dow Chemical) Electrically conductive composites utilizing multiphase polymer blends
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