

FINAL PROGRAM

SPE Polymer Nanocomposites Monday Evening March 5, 2012



Monday, March 5 - Room 141 Rauch Business Center, Lehigh University		
Clinic on Processing Polymer Nanocomposites		
Moderator: Larry Ingram (Alcan)		
6:00 PM –	Networking Session	
7:00 PM	INELWOIKING SESSION	
7:00 PM –	Speakers: Stu Kapp (Leistritz) and Tom Cunningham (Consultant)	
8:30 PM	<u>Speakers.</u> Stu Kapp (Leistitz) and Tom Cummigham (Consultant)	







FINAL PROGRAM Technical Presentations SPE Polymer Nanocomposites Tuesday, March 6, 2012



Tuesday, Ma	rch 6 - Perella Auditorium (Rauch, Lehigh University)		
Thermoplastic-Matrix Polymer Nanocomposites			
Moderator: Lloyd Robeson (Professor, Lehigh University)			
8:00 AM –	Continental Breakfast (Rauch Business Center, Lehigh University)		
8:45 AM	On-Site Registration and Pick-Up Proceedings on CD		
8:45 AM –	Welcome and Introduction (Organizers)		
9:00 AM			
9:00 AM -	Keynote Speaker: Don Paul (Professor, University of Texas-Austin)		
10:00 AM	Polyolefin-Based Nanocomposites		
10:00 AM - 10:30 AM	Speaker: Katsuyuki Wakabayashi (Professor, Bucknell University)		
	Solid-State Shear Pulverization for Polymer Nanocomposites: A		
	Chilled Twin-Screw Extrusion Process		
10:30 AM	Coffee Break & Vendor Exhibit		
11:00 AM –	Speaker: David Bigio (Professor, University of Maryland)		
11:30 AM	Variable Strength Stress Bead Analysis in a Twin-Screw Extruder		
11:30 AM –	Speaker: Joseph Golba (Lead Scientist, PolyOne)		
12:00 PM	Nanocomposites via In-Situ PolymerizationIs This the Way to Go?		
12:00 PM	Lunch & Vendor Exhibit		
Interfacial Iss	Interfacial Issues in Polymer Nanocomposites		
Moderator: Patrick Kelley (Waste Not Technologies, LLC)			
1:30 PM -	Keynote Speaker: Rich Vaia (Technology Advisor, AFRL, USAF)		
2:30 PM	Focusing on the Interface: New Opportunities for Polymer		
	Nanocomposites		
2:30 PM - 3:00 PM	Speaker: Gale Holmes (Senior Research Scientist, NIST)		
	Epoxy Clay Hybrid Nanocomposites: Dynamic Mechanical Properties		
	and Thermodynamic Considerations		
3:00 PM	Coffee Break & Vendor Exhibit		
3:30 PM -	Speaker: Bob DeVries (PolyOne)		
4:00 PM	Compatibilization of Carbon Nanotubes with Thermoplastic Matrices		
4:00 PM -	Speaker: Janis Matisons (Research Scientist, Gelest)		
4:30 PM	POSS Nanomaterials: Synthesis and Tailored Materials Properties		
4:30 PM -	Reception, Graduate Student Poster Session & Vendor Exhibit		
7:00 PM			







FINAL PROGRAM Technical Presentations SPE Polymer Nanocomposites Wednesday, March 7, 2012



Wednesday, March 7 - Perella Auditorium (Rauch Business Center, Lehigh University)		
Polymer Nanocomposites With Natural Fibers		
Moderator: Sabrina Jedlicka (Professor, Lehigh University)		
8:00 AM –	Continental Breakfast (Rauch Business Center, Lehigh University)	
8:45 AM	On-Site Single Day Registration and Pick-Up Proceedings on CD	
8:45 AM –	Welcome and Introduction (Organizers)	
9:00 AM		
9:00 AM –	Keynote Speaker: Robert Moon (USFS - Forest Products Lab)	
10:00 AM	Cellulose Nanomaterials and Nanocomposites	
10:00 AM -	Speaker: Douglas Gardner (Professor, Univeristy of Maine)	
10:30 AM	Cellulose Nanocomposites: Is the Technology Ready for Prime Time?	
10:30 AM	Coffee Break & Vendor Exhibit	
11:00 AM –	Speaker: Richard Wool (Professor, University of Delaware)	
11:30 AM	Twinkling Fractal Nanoscale Applications to Biobased Materials	
11:30 AM –	Speaker: Joshua Orlicki (Senior Scientist, ARL)	
12:00 PM	Nano-materials for the U.S. Army - Materials and Potential	
	Applications for the Future Soldier	
12:00 PM -	Lunch & Vendor Exhibit	
1:30 PM		
	s in Pharmaceuticals	
Moderator: F	Ray Pearson (Professor, Lehigh University)	
1:00 PM -	Keynote Speaker: Kathryn Uhrich, Rutgers University)	
2:00 PM	Nanoscale Assemblies in Drug Delivery	
2:00 PM -	Speaker: Dan Roxbury (Graduate Student, Lehigh University)	
2:30 PM	Sequence-Specific Interactions Between DNA and Single-Walled	
2.001 10	Carbon Nanotubes	
2:30 PM -	Speaker: Anthony McHugh (Professor, Lehigh University)	
3:00 PM	Polymer-Based Drug Delivery: The Role of Structure in the Delivery	
	Kinetics	
3:00 PM	Break	
3:15 PM - 3:45 PM	Speaker: Daniel Burnett (Surface Measurement Systems)	
	Anisotropic Nature of Pharmaceutical Powders and its Effects on	
	Processing and Formulation	
3:45 PM	Wrap-Up	



