

Fabric Property Development and Characterization

Agenda

Tuesday – Friday, October 8-11, 2019
 The Nonwovens Institute (NWI), NC State University
 1020 Main Campus Drive
 Raleigh, NC 27606

Tuesday, October 8

8:00 am	Registration	
9:00 am	Introductions	Dave Nelson, NWI
9:30 am	Nonwovens Process Review	Dave Nelson, NWI
10:45 am	Break	
11:00 am	Introduction to Testing and Standards	Behnam Pourdeyhimi, NWI
12:00 pm	Lunch	
1:00 pm	Structural Attributes of Nonwovens and their Characterization	Behnam Pourdeyhimi, NWI
2:00 pm	Mechanical I: Tensile, Compression and Recovery	Hechmi Hamouda, NWI
2:45 pm	Break	
3:00 pm	Mechanical II: Tear and Bursting	Hechmi Hamouda, NWI
4:00 pm	Mechanical III: Softness, Rigidity and Hand Group Dinner – TBD	Hechmi Hamouda, NWI

Wednesday, October 9

8:30 am	Breakfast	
9:00 am	Pore Size and Pore Volume Distribution	Eunkyong Shim, NCSU
10:00 am	Break	
10:15 am	Flammability and Thermal Evaluation	Hechmi Hamoud, NWI
11:00 am	Polymer Characterization	Wendy Krause, NCSU
12:15 pm	Lunch	
1:00 pm	Mechanical Properties Laboratory and Analysis	Amy Minton, NWI



Thursday, October 10

8:30 am	Breakfast	
9:00 am	Microscopic Analysis – Overview	Eunkyong Shim
10:00 am	Break	
10:15 am	NWI Pilot Facility Tour	Dave Nelson, NWI
11:15 am	SEM and its Applications in Nonwovens	Nicholas Rider, Nanoscience Inc.
12:00 pm	Lunch	
1:00 pm	SEM Nonwoven Applications and Lab	Nicholas Rider, Nanoscience Inc.
3:00 pm	Break	
3:15 pm	Air Filtration	Behnam Pourdeyhimi, NWI
4:15 pm	Liquid Filtration	Behnam Pourdeyhimi, NWI

Friday, October 11

8:30 am	Breakfast	
9:00 am	Acoustics	Hechmi Hamouda, NWI
10:00 am	Break	
10:15 am	Moisture and Vapor Transmission, Hydrostatic Head, Synthetic Blood	Amy Minton, NWI
11:00 am	Wipes and Wiping Efficiency, Absorbency, and In-Plane Wicking	Amy Minton, NWI
12:00 pm	Lunch	