



## Fabric Property Development and Characterization Course Agenda

### Tuesday – Friday, October 3-6, 2017

The Nonwovens Institute (NWI), NC State University  
1010 Main Campus Drive, Suite 150  
Raleigh, NC 27606

#### Tuesday, October 3, 8:00 am – 5:00 pm

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 & Standards	Behnam Pourdeyhimi, NWI
12:00 pm	Lunch	
1:00 pm	Structural Attributes of Nonwovens & their Characterization	Behnam Pourdeyhimi, NWI
2:00 pm	Mechanical I: Tensile, Compression & Recovery	Hechmi Hamouda, NWI
2:45 pm	Break	
3:00 pm	Mechanical II: Tear & Bursting	Hechmi Hamouda, NWI
4:00 pm	Mechanical III: Softness, Rigidity & Hand Group Dinner – TBD	Hechmi Hamouda, NWI

#### Wednesday, October 4, 8:30 am – 5:00 pm

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 5, 8:30 am – 5:00 pm

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
11:15 am	SEM and its Applications in Nonwovens	Nicholas Rider, Nanoscience
12:00 pm	Lunch	
1:00 pm	SEM Nonwoven Applications and Lab	Nicholas Rider, Nanoscience
3:00 pm	Break	
3:15 pm	Moisture and Vapor Transmission, Hydrostatic Head, and Synthetic Blood	Amy Minton, NWI
4:00 pm	Wipes and Wiping Efficiency, Absorbency, In-Plane Wicking	Amy Minton, NWI

Friday, October 6, 8:30 am – 1:00 pm

8:30 am	Breakfast	
9:00 am	Air Filtration	Behnam Pourdeyhimi, NWI
10:00 am	Break	
10:15 am	Liquid Filtration	Behnam Pourdeyhimi, NWI
11:00 am	Acoustics	Hechmi Hamouda, NWI
12:00 pm	Lunch	
1:00 pm	Adjourn	