



## Nonwoven Fabric Property Development & Characterization Agenda

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

### Tuesday, Day 1

12:00 pm	<b>Registration and Lunch</b>	
1:00 pm	Introductions and Course Overview	Dave Nelson, NWI
1:45 pm	Introduction to Testing & Quality Management System (QMS)	Behnam Pourdeyhimi, Ph.D., NWI
2:15 pm	<b>Break</b>	
2:30 pm	Structural Attributes of Nonwovens & Their Characterization	Behnam Pourdeyhimi, Ph.D., NWI
3:15 pm	<b>Break</b>	
3:30 pm	Structural Uniformity	Behnam Pourdeyhimi, Ph.D., NWI
4:10 pm	Effect of Structure on Behavior	Behnam Pourdeyhimi, Ph.D., NWI
4:30 pm	Mechanical Properties: Tensile, Compression & Recovery	Benoit Maze, Ph.D., NWI
6:00 pm	<b>Group Dinner</b>	

### Wednesday, Day 2

8:30 am	<b>Networking Breakfast</b>	
9:00 am	Tear & Bursting	Benoit Maze, Ph.D., NWI
9:45 am	Fuzz & Linting	Behnam Pourdeyhimi, Ph.D., NWI
10:30 am	<b>Break</b>	
10:45 am	Haptics – Measurement of “Hand”	Benoit Maze, Ph.D., NWI
12:00 pm	<b>Networking Lunch</b>	
1:00 pm	Flammability and Thermal Evaluation	Benoit Maze, Ph.D., NWI
1:30 pm	Pore Size and Pore Volume Distribution	Benoit Maze, Ph.D., NWI
2:00 pm	Blood Borne Pathogen	Behnam Pourdeyhimi, Ph.D., NWI
3:00 pm	<b>Break</b>	
3:15 pm	Mechanical Properties & Characterization Laboratory Tour and Practical Demonstrations	Amy Minton, NWI
5:00 pm	<b>Adjourn for the Day</b>	



## Thursday, Day 3

8:30 am	<b>Networking Breakfast</b>	
9:00 am	Microscopic Analysis – Overview	TBD
10:15 am	<b>Break</b>	
10:30 am	NWI Pilot Facility Tour	Dave Nelson, NWI
11:15 am	Scanning Electron Microscope (SEM) and Its Applications in Nonwovens	Jining Xie, Nanoscience, Inc.
12:00 pm	<b>Networking Lunch</b>	
1:00 pm	SEM Lab	Amy Minton, NWI
2:00 pm	Image Analysis for Nonwovens	Behnam Pourdeyhimi, Ph.D., NWI
3:00 pm	<b>Break</b>	
3:15 pm	Air & Aerosol Filtration	Behnam Pourdeyhimi, Ph.D., NWI
4:15 pm	Liquid Filtration	Behnam Pourdeyhimi, Ph.D., NWI
5:00 pm	<b>Adjourn for the Day</b>	

## Friday, Day 4

8:30 am	<b>Networking Breakfast</b>	
9:00 am	Absorbency	Behnam Pourdeyhimi, Ph.D., NWI
10:00 am	<b>Break</b>	
10:15 am	Moisture Vapor Transmission Rate (MVTR)	Behnam Pourdeyhimi, Ph.D., NWI
11:00 am	Wiping Efficiency – DWE Methods	Pierre Grondin, NWI
12:00 pm	<b>Networking Lunch/Course Adjourns</b>	