



••••

# Fabric Property Development and Characterization Agenda

The Nonwovens Institute (NWI), NC State University 1020 Main Campus Drive Raleigh, NC 27606

#### **Tuesday**

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

### **Wednesday**

8:30 am	Breakfast	
9:00 am	Tear & Bursting	Benoit Maze, NWI
9:45 am	Fuzz & Linting	Behnam Pourdeyhimi, NWI
10:30 am	Break	•
10:45 am	Haptics – Measurement of "Hand" & Demo	Peter Botticelli, SynTouch
12:00 pm	Lunch	
1:00 pm	Flammability and Thermal Evaluation	Benoit Maze, NWI
1:30 pm	Pore Size and Pore Volume Distribution	Benoit Maze, NWI
2:00 pm	Blood Borne Pathogen	Behnam Pourdeyhimi, NWI
3:00 pm	Break	
3:15 pm	Mechanical Properties & Characterization Laboratory Tour and Practical Demonstrations	Amy Minton, NWI
5:00 pm	Adjourn for the Day	





•••••





••••

#### **Thursday**

8:30 am	Breakfast	
9:00 am	Microscopic Analysis – Overview	TBD
10:15 am	Break	
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	Lunch	
1:00 pm	SEM Nonwoven Applications and Lab	Jining Xie, Nanoscience, Inc.
2:00 pm	Electrospun Nonwovens – Application and Characterization	TBD
3:00 pm	Break	
3:15 pm	Air & Aerosol Filtration	Behnam Pourdeyhimi, NWI
4:15 pm	Liquid Filtration	Behnam Pourdeyhimi, NWI
5:00 pm	Adjourn for the Day	•

## **Friday**

8:30 am	Breakfast	
9:00 am	Absorbency	Behnam Pourdeyhimi, NWI
10:00 am	Break	
10:15 am	Moisture Vapor Transmission Rate (MVTR)	Behnam Pourdeyhimi, NWI
11:00 am	Wiping Efficiency – DWE Methods	Pierre Grondin, NWI
12:00 pm	Lunch and Course Adjourns	



