



## Fabric Property Development and Characterization Agenda

**Tuesday – Friday, December 7-10, 2021**

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

### Tuesday, December 7

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 Characterization & Effect of Structure on Behavior	Behnam Pourdeyhimi, NWI
4:30 pm	Tensile, Compression & Recovery	Benoit Maze, NWI
6:00 pm	Group Dinner – TBD	

### Wednesday, December 8

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	Amy Minton, NWI
	Laboratory Tour and Practical Demonstrations	
5:00 pm	Adjourn for the Day	



**Thursday, December 9**

8:30 am	Breakfast	
9:00 am	Microscopic Analysis – Overview	Benoit Maze, NWI
10:00 am	Break	
10:15 am	NWI Pilot Facility Tour	Dave Nelson, NWI
11:15 am	SEM and its Applications in Nonwovens	Jining Xie, Nanoscience Instruments, Inc.
12:00 pm	Lunch	
1:00 pm	SEM Nonwoven Applications and Lab	Jining Xie, Nanoscience Instruments, Inc.
2:00 pm	Electrospun Nonwovens – Application and Characterization	Francisco Chaparro, Fluidnatek
3:00 pm	Break	
3:15 pm	Air Filtration	Behnam Pourdeyhimi, NWI
4:15 pm	Liquid Filtration	Behnam Pourdeyhimi, NWI
5:00 pm	Adjourn for the Day	

**Friday, December 10**

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	