

NONWOVEN FABRIC PROPERTY DEVELOPMENT & CHARACTERIZATION SHORT COURSE

SHORT COURSE – DECEMBER 5-8, 2023

Tuesday, December 5

12:00 pm	1:00 pm	Registration and Lunch	
1:00 pm	1:45 pm	Introductions and Course Overview	Dave Nelson, NWI
1:45 pm	2:15 pm	Introduction to Testing & Quality Management Systems (QMS)	Behnam Pourdeyhimi, Ph.D., NWI
2:15 pm	2:30 pm	Break	
2:30 pm	3:15 pm	Structural Attributes of Nonwovens & Their Characterization	Behnam Pourdeyhimi, Ph.D., NWI
3:15 pm	3:30 pm	Break	
3:30 pm	4:10 pm	Structural Uniformity	Behnam Pourdeyhimi, Ph.D., NWI
4:10 pm	4:30 pm	Effect of Structure on Behavior	Behnam Pourdeyhimi, Ph.D., NWI
4:30 pm	5:30 pm	Mechanical Properties: Tensile, Compression & Recovery	Benoit Maze, Ph.D., NWI
6:00 pm	8:00 pm	Group Dinner	

Wednesday, December 3

8:30 am	9:00 am	Networking Breakfast	
9:00 am	9:45 am	Tear & Bursting	Benoit Maze, Ph.D., NWI
9:45 am	10:30 am	Fuzz & Linting	Behnam Pourdeyhimi, Ph.D., NWI
10:30 am	10:45 am	Break	
10:45 am	12:00 pm	Haptics – Measurement of "Hand"	Benoit Maze, Ph.D., NWI

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This course is presented in partnership with:



Wednesday, December 3 (Cont.)

12:00 pm	1:00 pm	Networking Lunch	
1:00 pm	1:30 pm	Flammability & Thermal Evaluation	Benoit Maze, Ph.D., NWI
1:30 pm	2:00 pm	Pore Size & Pore Volume Distribution	Benoit Maze, Ph.D., NWI
2:00 pm	3:00 pm	Blood Borne Pathogen	Behnam Pourdeyhimi, Ph.D., NWI
3:00 pm	3:15 pm	Break	
3:15 pm	5:00 pm	Mechanical Properties & Characterization Laboratory Tour and Practical Demonstrations	Amy Minton, NWI

Thursday, December 4

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

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Friday, December 5

8:30 am	9:00 am	Networking Breakfast	
9:00 am	10:00 am	Absorbency	Behnam Pourdeyhimi, Ph.D., NWI
10:00 am	10:15 am	Break	
10:15 am	11:00 am	Moisture Vapor Transmission Rate (MVTR)	Behnam Pourdeyhimi, Ph.D., NWI
11:00 am	12:00 pm	Wiping Efficiency – DWE Methods	Pierre Grondin, NWI
12:00 pm	1:00 pm	Networking Lunch/Course Adjourns	

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