

## Nonwoven Bonding Fundamentals

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

8:00 am	<b>Networking and Light Breakfast</b>
8:30 am	Introductions and Course Objectives
9:00 am	Structural Attributes of Nonwovens
9:30 am	Effect of Structure on Behavior
10:00 am	Polymer Thermal Properties
10:30 am	<b>Coffee Break</b>
10:45 am	Thermal Bonding Methods and Equipment
11:15 am	Calender Bonding – Role of Fiber Morphology and Process
12:00 pm	<b>Networking Lunch</b>
1:00 pm	Structure Process Property Relationships – Thermal Bonding
1:30 pm	Needlepunching Intro
2:00 pm	Needlepunching – Process and Interactions
3:00 pm	<b>Coffee Break</b>
3:30 pm	Intro to Hydroentangling
4:00 pm	Hydroentangling Nozzles and Mechanism of Entangling
4:30 pm	Structure Property Relationships – Hydroentangling
5:00 pm	Q&A and Wrap-Up