

# INTERMEDIATE NONWOVENS TRAINING COURSE

INDA Headquarters, Cary, NC

The Nonwovens Institute, NC State University,  
Raleigh, NC

March 10-13, 2015 | August 2015 | November 2015

The course will be held at INDA Headquarters, Suite 115, 1100 Crescent Green, Cary, NC 27518 and NC State University, The Nonwovens Institute, 1000 Main Campus Drive, Raleigh, NC 27606, College of Textiles Building, Suite 2418

## TAKE THE NEXT STEP FORWARD - ADVANCE YOUR OPPORTUNITIES AND YOUR ORGANIZATION.

Designed for industry professionals with nonwovens experience or a technical background, this new 3.5 day course is a **bridge between INDA's Elementary Nonwovens Training Course and the Advanced Courses of the Professional Development Series**. Attendees will learn how to select the correct technology to meet product performance and attribute requirements. The course includes the fundamental chemical and physical make up of nonwovens, the properties of materials used in making them, and the manufacturing processes used to produce them.

The curriculum includes demonstrations of processes at The Nonwovens Institute on the campus of NC State University, at their state-of-the-art pilot lines and analytical characterization labs. Both INDA and NWI instructors will lead the class, with select guest speakers contributing to educational content. A Bachelor of Science degree in engineering, textiles, or five years of relevant experience in nonwovens is recommended.

This educational course is aimed at making professionals and their organizations more successful by providing:

- Advanced nonwovens knowledge
- In-depth understanding of processes, technologies, chemistries, and raw materials
- Expanded business options for branded and private label products
- Enhanced professional and personal growth

## OVERVIEW

- Fundamentals of fibers and materials
- Web formation technologies
- Fabric bonding technologies
- Fabric finishing and converting
- Testing and characterization
- Nonwoven products and markets
- Future direction of the industry and technologies

This course is designed for nonwovens industry professionals who desire a deeper knowledge and understanding of nonwoven processes and products including:

- R&D professionals
- Manufacturing and engineering
- Business and product development
- Production personnel
- Maintenance and plant engineers
- Quality control technicians
- Technical marketing and sales professionals

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## INSTRUCTOR:

**Edward Vaughn**, Ph.D., Professor Emeritus at the Clemson University School of Materials Science and Engineering, leads the INDA Intermediate Nonwovens Training Course. Professor Vaughn received the “Lifetime Achievement Award” from INDA in 2007. He is the author of several technical patents in nonwovens and fiber technology, and is also the 2002 recipient of the Mark Hollingsworth Award from the Technical Association of the Pulp and Paper Industry.

Professor Vaughn is renowned in the nonwovens industry for his stewardship of the annual Clemson Nonwoven Fabrics Forum. He received his Ph.D. in Fiber Physics from the University of Manchester, England. Following his return to Clemson from Manchester, he continued his teaching and research activities and served as Department Head and then Director of the School of Textiles from 1977 to 1989.

*“I would definitely recommend the INDA training class to anyone who wants an in-depth look into nonwoven manufacturing. I especially liked the group exercise; it promoted teamwork and allowed us to see different areas of nonwoven use and markets.”*

- Tara Millar  
Product Manager-Atlantic Mills and Sertun Brands  
ITW Professional Brands

*“Excellent course - I learned a great deal about the industry outside of my narrow focus. Great to know alternate techniques and materials and I now have good reference literature as well.”*

- Tom Owens  
Director of Technical Services and Sourcing  
Americo Manufacturing Co., Inc.

*“I would recommend this class to anyone who has any knowledge with the basics of nonwovens. I have a better understanding on what companies are looking to use in their products for the best results. Our Director of Supply Chain was debating on going to the class and I told him that I thought he would benefit greatly from this class.”*

- Vickey Dingus  
R&D Technician  
Principle Business Enterprises

**3.5 days, 3.0 CEUs**

**INDA/NWI Members: \$2,350 | Non-members: \$3,350**

Multiple registrants from the same company receive a discount.

A comprehensive guide of instruction and reference material is provided to each attendee.