



# NCRC Workshops

## 2003

### Fee Structure for all courses:

	NCRC Members	Non-member
30 days before course	\$1,100.00	\$1,300.00
Three or more from same company	\$1,000.00 each	\$1,200.00 each
After 30 days before course	\$1,400.00	\$1,600.00
Three or more from same company	\$1,300.00 each	\$1,500.00 each

### Accommodations:

Lodging is not included in the workshop fee.

Hotels:	Velvet Cloak	Holiday Inn Brownstone Hotel
Address	1505 Hillsborough St.,	1707 Hillsborough St., Raleigh, NC
Telephone:	919-828-0333	919-828-0811
Rate:	\$69.00	\$69.00

Be sure to mention that you are attending the "NCRC Workshop" at NCSU to qualify for this rate.

### Cancellation Policy:

For a full refund, a written request must be received by 30 days before the course. Fifty percent (50%) refund will be given if received by 2 weeks before the course. No refunds will be given after that period. Substitutions may be made at any time.

NCRC reserves the right to cancel the workshop and will give a minimum of one-week advance notice. In this case, a full refund will be sent to all paid registrants. Fees include tuition, course materials, breaks & lunches, social/dinner first night.

Registration must be accompanied by fees in U.S. dollars, payable by check drawn on a U.S. bank or by company issued purchase order.

Check or money order payable to: NCRC/NC State University

Nonwovens Cooperative Research Center  
College of Textiles, North Carolina State University  
2401 Research Drive  
Raleigh, NC 27695-8301

NONPROFIT ORGANIZATION  
US POSTAGE  
**PAID**  
RALEIGH, NC  
PERMIT NO. 2353

Donald Slawter  
3M Corporation  
2401 Brevard Road  
High Point NC 27263

**Location:** The workshops will be held at The College of Textiles, North Carolina State University.

### About Our Instructors:

Our instructors are leaders in their fields. We do our best to bring you the latest knowledge in the field. During the hands-on sessions we will work with you to develop solutions to specific problems that you may wish to discuss. NCRC offers these courses as a service to industry. We would like to hear from you with your suggestions for other courses or how we may better serve you.

**Interested in a Customized Course :** NCRC offers customized courses for an individual company or a group of companies. If you are interested in having NCRC develop a specific course for your organization, please contact us at the address below to discuss details and rates.

### Questions ?

If you have any questions about the course or wish to have additional topics added to the course, please contact us at the address below.

Registration Form \_\_\_\_\_ fill in course name and date)

I would like to  Register  Change my address  Remove my name from mailing list

Name (Dr., Mr., Mrs., Ms.) \_\_\_\_\_

Company Name \_\_\_\_\_

Address \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Phone/fax \_\_\_\_\_

Email address \_\_\_\_\_ Registration fee \$ \_\_\_\_\_

Will you need a parking permit  Yes  No

Signature \_\_\_\_\_

Please cut along the dotted line and mail with your check or company purchase order to NCRC/NCSU, Attn: Ms. Alicia Ford, NCRC, Box 8301, 2401 Research Drive, NC State University, Raleigh, NC 27695-8301.

Please let us know if you require any special accommodations for disabilities or special dietary restriction.

## NONWOVENS COOPERATIVE RESEARCH CENTER

Phone: 919-515-6551, Fax: 919-515-4556, Email: [nonwovens@ncsu.edu](mailto:nonwovens@ncsu.edu), URL: <http://www.ncrc.ncsu.edu>

## NCRC Workshop

### Nonwovens Principles & Practices

January 13 -17, 2003

#### About the Workshop:

This workshop will introduce you to the concepts and practice of basic manufacturing processes including raw material selection, web formation, bonding technologies and finishing as well as product design and performance testing.

There will be an opportunity for the participants to work with different processes during the hands-on sessions of the course. The combination of instruction and hands-on sessions will provide attendees with a better understanding of the concepts in both manufacturing and testing.

#### Who Should Attend:

Anyone working in the industry who needs to know fundamentals of nonwoven manufacturing processes from fibers to fabric to finished product testing. Purchasing agents, process engineers, production supervisors, R&D and technical staff of nonwoven related industries will benefit from this hands-on workshop.

**Cut off date: January 1, 2003 for both hotels**

## NCRC Workshop

### Fundamentals of Hydroentanglement

February 18-19, 2003

#### About the Workshop:

This workshop will introduce you to the concepts and practice of hydroentanglement process including raw material selection and product design.

There will be an opportunity for the participants to see hydroentanglement during the hands-on sessions of the course. The combination of instruction and laboratory sessions will provide attendees with a better understanding of the concepts in both manufacturing and testing.

#### Who Should Attend:

Anyone working in the industry who needs to know fundamentals of nonwoven hydroentanglement manufacturing process. Process engineers, production supervisors, R&D and technical staff of nonwoven related industries will benefit from this hands-on workshop

**Cut off date: January 22, 2003 for both hotels**

## NCRC Workshop

### Fundamentals of Spunbond & Meltblowing

April 22 - 24, 2003

#### About the Workshop:

This workshop will introduce you to the concepts and practice of melt spinning as well as spunbond and meltblowing processes including raw material selection, web formation, bonding technologies and finishing, as well as product design and performance testing.

There will be an opportunity for the participants to see different processes during the hands-on sessions of the course. The combination of instruction and laboratory sessions will provide attendees with a better understanding of the concepts in both manufacturing and testing.

#### Who Should Attend:

Anyone working in the industry who needs to know fundamentals of nonwoven spunbond and meltblowing manufacturing processes. Process engineers, production supervisors, R&D and technical staff of nonwoven related industries will benefit from this hands-on workshop.

**Cut off date: March 15, 2003 for both hotels**

## NCRC Workshop

### Fundamentals of Thermal Bonding

July 15 - 17, 2003

#### About the Workshop:

This workshop will introduce you to the concepts and practice of thermal bonding including raw material selection and product design.

There will be an opportunity for the participants to see thermal bonding during the hands-on sessions of the course. The combination of instruction and laboratory sessions will provide attendees with a better understanding of the concepts in thermal bonding.

#### Who Should Attend:

Anyone working in the industry who needs to know fundamentals of nonwoven thermal bonding process. Process engineers, production supervisors, R&D and technical staff of nonwoven related industries will benefit from this hands-on workshop.

**Cut off date: June 15, 2003 for both hotels**