

# Press

Techtextil North America  
Raleigh Convention Center  
500 S. Salisbury St.  
Raleigh, NC 27601

USA, February 7, 2019

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## **Techtextil North America Releases Schedules for Show Floor Features**

Techtextil North America will open the doors to the Raleigh Convention Center in just a few short weeks. The event today released the full schedules for two show features, Tech Talks and The Lab, which will each host complimentary mini-sessions and demonstrations included with the purchase of an Exhibit Hall badge.

### **Tech Talks**

Tech Talks returns to Techtextil North America with a lineup of mini-sessions powered by The Nonwovens Institute. Each talk will feature select participants of the Student Research Poster Program, highlighting their groundbreaking research and developments. Topics covered will include: composites, digital textile printing, e-textiles, and smart fabrics, functional materials, medical & hygiene, nonwovens, nanofibers, sustainable fibers and more.

### **The Lab**

New this year to Techtextil North America is The Lab, powered by Gaston College's Textile Technology Center supported by AATCC. This show floor feature area will house the latest and greatest in testing equipment and include talks and demonstrations from experts in testing and quality management including Gaston College, AATCC, Datacolor, The Manufacturing Solutions Center, and NCSU's Textile Protection and Comfort Center. Topics covered will include color fastness, clothing comfort, e-Textiles, moisture testing and more.

<b>Techtextil North America   Tech Talks   Tuesday, February 26</b>		
<b>Session Time</b>	<b>Speaker</b>	<b>Session Title</b>
11:30 AM	Ashwariyah Lahaira, Cornell	Electrospinning Polypyrrole for Novel Carbon Dioxide Sensors: A Study of Electrospinning Parameters for Highly Sensitive and Conductive Nanofibers
	Elnaz Shabani, NCSU	Strategies to Improve the Unconfined Melt Electrospinning Process via Incorporation of Ionically Conductive Particles
1:00 PM	Milon Hossain, NCSU	Multifunctional E-Textiles from Carbon Nanotube Wrapped Textile Yarn
	Yusuke Mukai, NCSU	Structure-Microwave Dielectric Property Relationship in Cotton Fabrics
2:15 PM	Homeira Azari, UGA	Structure and Properties of Polypropylene Graphene Composite Filaments
	Salvatore Luiso, NCSU	Melt-blown PVDF as a Potential Li-ion Battery Separator
3:15 PM	Erin Roberts, NCSU	Advanced Meltblow Structures
	Alireza Garmabi, NCSU	Micro-mechanics of Thermal Nonwoven Bonds via Micro Digital Image Correlation
4:00 PM	Shafiqul Islam, UGA	Environmentally-friendly Thermal and Acoustic Insulation Materials from Recycled Fabric Trimmings
<b>Techtextil North America   Tech Talks   Wednesday, February 27</b>		
<b>Session Time</b>	<b>Speaker</b>	<b>Session Title</b>
11:30 AM	Shuangyan Wu, UGA	New Approaches to Development of Lightweight Ballistic Materials
	Isabella Siravo, Thomas Jefferson University	High-performance Industrial Hemp Fiber that is Both Environmentally and Socially Beneficial
1:00 PM	Lanjuan Yin, NCSU	Evaluation and Engineering of Skin Comfort and Tactile Properties for Nonwoven Fabric
	Partha Sidkar, UGA	Barrier and Mechanical Properties of Composite Nonwovens Produced from Hydroentangling Cotton Fibers with Elastomeric Webs
2:15 PM	Monica Deshpande, NCSU	Evaluation of Poly( $\epsilon$ -caprolactone) Auxetic Knitted Scaffolds for Regeneration of Craniofacial Skeletal Muscle
	Jordan Tabor, NCSU	Novel Textile-based Sensors for Prosthetic Environment Monitoring
3:15 PM	Srivatsan Ramesh, NCSU	Self-repairing Nonwovens Using Stimuli-Responsive Hydrogels
	Eunyoung Kim, NCSU	Fuzz Formation in Nonwovens
4:00 PM	Ciera Cipriani, NCSU	Controlling the Degradation of Light-activated Functional Materials Based on Azobenzene Derivatives
<b>Techtextil North America   Tech Talks   Thursday, February 28</b>		
<b>Session Time</b>	<b>Speaker</b>	<b>Session Title</b>
11:30 AM	Hamid Ebrahimi, NCSU	PLA Structure-Property-Process Relationships
	Angela D'Orio, NCSU	Patent Landscape in Nonwovens
12:15 PM	Jaijun Lu, NCSU	Influence of Pre/post-treatment on Color Fastness of Inkjet Printed Cotton Substrate
	Ming Wang, NCSU	Significance and Effect of Pre-treatment and Post-treatment for Disperse Dyes in Textile Inkjet Printing
1:00 PM	Anuradhi Liyanapathirana, UGA	Commercial and Environmental Benefits of NFC Based Sustainable Textile Dyeing

Techtextil North America   The Lab   Tuesday, February 26			
Session Time	Speaker	Session Title	Description
10:45 AM	George Angle, Senior Analyst, Datacolor	Spectrophotometer and Quality Control Software Support of AATCC Test Methods	Many AATCC test methods and evaluation procedures, including AATCC TM110, TM173, EP7, EP11, and others, rely upon numerical color difference calculations rather than visual assessment to evaluate the acceptability of a textile sample. The colorimetric information can be easily generated using a spectrophotometer, but proper use of the instrument is critical to ensure accuracy in the results. Join Datacolor as we demonstrate use of a spectrophotometer and quality control software to generate ratings in support of AATCC test methods and evaluation procedures.
11:45 AM	Dr. Roger Barker, TPACC Director, Wilson College of Textiles, NCSU	Measuring Clothing Comfort	Comfort properties of clothing are determined by tactile characteristics (softness, stiffness/bending and stretch), moisture management and thermal factors. We will discuss tests to measure each of these factors with an emphasis on thermal comfort (Ret and Rct) and use of the gravimetric absorbency testing system to characterize liquid moisture management.
1:45 PM	Remington Scott, Technical Associate, AATCC	Electrical Resistance Testing for e-Textiles	E-textiles are an exciting new category for consumers, but ensuring they function as expected is a challenge. Both traditional electronics tests and traditional textile tests fall short for e-textiles. Get insight into development and use of the AATCC evaluation procedure for Electrical Resistance of Electronically-Integrated Textiles—considerations for probe selection, sources of variation, lessons learned, and what's next.
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10:45 AM	Shane Lynch, Testing Lab Area Leader, Manufacturing Solutions Center	Water Repellency: Spray Test AATCC Test Method 22-2014	The Spray Test measures the resistance of fabrics to wetting by water. It is applicable to any textile fabric and especially suitable for measuring the water-repellent efficacy of finishes applied to fabrics. The results report the resistance to wetting or water repellency of the fibers, yarns and finishes on the fabric, and upon the construction of the fabric.
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1:45 PM	Teresa Morgan, Senior Physical Testing Specialist, Textile Technology Center at Gaston College	Drying Time of Textiles: Moisture Analyzer Method AATCC Test Method 199-2013	Achieving adequate Moisture Management properties, such as drying rate or time, is one of the most sought after attributes for textile manufacturers, retailers, and chemical suppliers. The use of non-standard textile testing conditions makes it possible to simulate the drying at body temperatures that simulate conditions of use. Learn how to evaluate the drying time of knits, woven and nonwoven fabrics at an elevated temperature using a gravimetric moisture analyzer.
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Techtextil North America is where manufacturers, suppliers, service providers and industry professionals come together for three days of networking, education & innovation. For more information and to register for the upcoming edition of Techtextil North America, February 26-28, 2019 in Raleigh, North Carolina, please visit [www.techtextilna.com](http://www.techtextilna.com) for more information or <https://techtextilnorthamerica2019.expotracker.net/index.aspx> to register.

**Background information on Messe Frankfurt**

Messe Frankfurt is the world's largest trade fair, congress and event organizer with its own exhibition grounds. With more than 2,500\* employees at some 30 locations, the company generates annual sales of around €661\* million. Thanks to its far-reaching ties with the relevant sectors and to its international sales network, the Group looks after the business interests of its customers effectively. A comprehensive range of services – both onsite and online – ensures that customers worldwide enjoy consistently high quality and flexibility when planning, organizing and running their events. The wide range of services includes renting exhibition grounds, trade fair construction and marketing, personnel and food services. With its headquarters in Frankfurt am Main, the company is owned by the City of Frankfurt (60 percent) and the State of Hesse (40 percent). \*preliminary numbers 2017

For more information, please visit our website at:

[www.messefrankfurt.com](http://www.messefrankfurt.com) | [www.congressfrankfurt.de](http://www.congressfrankfurt.de) | [www.festhalle.de](http://www.festhalle.de)

Messe Frankfurt North America is a subsidiary of Messe Frankfurt and is headquartered in Atlanta, GA. Messe Frankfurt North America produces nine shows within the United States, Canada and Mexico. In addition to Techtextil North America and Texprocess Americas, the North American portfolio of events includes Waste & Recycling Expo Canada, Home Textiles Sourcing Expo, Apparel Sourcing USA and Texworld USA, INA PAACE Automechanika Mexico City and NACE Automechanika Atlanta. For more information, please visit our website at [www.us.messefrankfurt.com](http://www.us.messefrankfurt.com).

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