

Tuesday, September 24

Breakfast Connections

8:00 am - 8:30 am

RISE® 2019 STUDENT POSTERS

8:30 am - 5:00 pm

Surface modification of nonwovens for water filtration

Yang Yu, Ph.D. Student - Fiber & Polymer Science, North Carolina State University

Evaluations and engineering of skin comfort and tactile properties of nonwoven fabrics

Lanjun Yin, Graduate Student, North Carolina State University

Advanced Meltblown Structures

Erin Roberts, Graduate Student, North Carolina State University

Hydrogel Functionalized Polypropylene Membranes

Camden Cutright, Graduate Student, North Carolina State University

Fundamental Study of Polymer Compatibility of Polymer Blends and Their Effects on Melt-Spinning Process and Fiber/Nonwoven Properties

Imon Khan, Graduate Student, North Carolina State University

Effects of filter media structures on particle capture and dust holding capacity

Yu Song, Graduate Student, North Carolina State University

PVDF Nonwovens Structure-property relationships

Salvatore Luiso, Graduate Student - PhD - Chemical & Biomolecular Engineering, North Carolina State University

Micro-mechanics of Thermal Nonwoven Bonds via Micro Digital Image Correlation

Alireza Garmabi, Graduate Student, North Carolina State University

Elastomeric Multifunctional Nonwoven

Yanan Wang, Ph.D. Student - Fiber & Polymer Science, North Carolina State University

Recycled PET Characterization, Fiber Formation & Applications

Avoni Gharde, Graduate Student, North Carolina State University

Self-repairing nonwoven fabrics using stimuli-responsive hydrogels

Srivatsan Ramesh, Graduate Student, North Carolina State University

Patent Landscape in Nonwovens

Angela D'Orio, Student, The Nonwovens Institute At North Carolina State University

Fuzz Formation in Nonwovens

Eunyoung Kim, Ph.D. Student - Fiber & Polymer Science, North Carolina State University

PLA Nonwovens

Hamid Ebrahimi, Ph.D. Student - Fiber & Polymer Science, North Carolina State University

New tools for understanding charge on nonwovens

Sooik Im, Ph.D. Student - Chemical & Biomolecular Engineering, The Nonwovens Institute At North Carolina State University

Blends of Most Commonly Used Polymers in Nonwovens and Their Interface

Tomik Moradi, Ph.D. Student - Fiber & Polymer Science, North Carolina State University

WELCOME

8:30 am - 8:35 am

Moderator: Dave Rouse, President, INDA, Association of The Nonwoven Fabrics Industry

SUSTAINABLE ADDITIVES I

8:35 am - 10:20 am

Moderator: Dave Rouse, President, INDA, Association of The Nonwoven Fabrics Industry

CiCLO Sustainable Textile Technology

Andrea Ferris, CEO, Intrinsic Advanced Materials

Demystifying Biodegradation and the Circular Economy of Nonwoven Synthetic Materials

Teresa Clark, Vice President - Product Development And Sustainability, ENSO Plastics, LLC

Adding Value and Circularity to Nonwovens through Masterbatch Additives

Brett Watkins, Business Innovations - Americas, Sukano Polymers Corporation

Coffee & Networking Break

10:20 am - 11:00 am

SUSTAINABLE ADDITIVES II

11:00 am - 12:00 pm

Moderator: Dave Rouse, President, INDA, Association of The Nonwoven Fabrics Industry

Biodegradation-Promoting Additives for Plastics – Questions You Should Ask

Susan Selke, Ph.D., Director & Professor, Michigan State University - School of Packaging

Maximizing the Molecule: Why Recycling Plastic is the Best Option

Sandi Childs, Film and Flexible Programs Director, Association of Plastics Recyclers (APR)

Lunch (Buffet Lunch Provided)

12:00 pm - 1:00 pm

SUSTAINABLE POLYMERS

1:00 pm - 2:00 pm

Moderator: Paul Rollin, Ph.D., Global Team Lead - Nonwovens, ExxonMobil Chemical Company

Nodax™ PHA Copolymers

Isao Noda, PhD, DSc, Chief Science Officer, Senior VP of Innovation, Danimer Scientific

New & Novel Environmentally Friendly Fibers and Polymers – What’s Available Now and What’s Under Development?

Behnam Pourdeyhimi, Ph.D., William A. Klopman Distinguished Professor, And Executive Director, North Carolina State University, The Nonwovens Institute

CIRCULAR INNOVATION

2:00 pm - 3:30 pm

Moderator: Davis Lee, Ph.D., Senior Marketing Scientist, Exponent

Microfibers from Laundering and Their Fate in Aquatic Environments

Richard Venditti, Ph.D., Professor, NC State University - Department of Forest Materials

The First 100% Recycled, Biodegradable Performance Synthetic Fiber for Textile Applications

Vanessa Mason, Senior Vice President of Engineering, PrimaLoft, Inc.

Innovation Using the Natural Circularity of Cellulose to Reduce the Impact of Single Use Plastics

Thomas Carlyle, Global Project Manager - Special Projects, Lenzing Fibers Inc.

Coffee & Networking Break

3:30 pm - 4:00 pm

INNOVATION I

4:00 pm - 5:00 pm

Moderator: Vinitkumar Singh, Ph.D., Product Development Manager, Jacob Holm

Thermoplastic Based Nonwoven Composites – The New Promising Lightweight Materials for Automotive Structures

Sai Aditya Pradeep, Graduate Student, Clemson University

Developments On Next Generation Latex Binders for the Nonwoven Industry: A Novel Formaldehyde-free Self-cross-linking Technology Platform

Sören Butz, Ph.D., Head Of Technical Service-Textile, Synthomer Deutschland GmbH

RISE® 2019 INNOVATION AWARD PRESENTATIONS

5:00 pm - 5:30 pm

The RISE® Innovation Award will recognize innovation in areas within and on the periphery of the nonwovens industry which utilizes advanced science and engineering principles to develop unique or intricate solutions to problems. Areas for consideration may include: raw material advances, advances in process or manufacturing technologies including web forming and converting, new product or application development, or other areas that may extend or enhance the use of nonwovens. Join the finalists as they present their innovations to RISE attendees. The winner will be announced Wednesday afternoon.

THE NONWOVENS INSTITUTE - TOUR & RECEPTION

6:00 pm - 7:30 pm

RSVP Required - Limited to 50 attendees

Wednesday, September 25

Breakfast Connections

7:30 am - 8:00 am

INNOVATION II

8:00 am - 10:30 am

Moderator: Dave Nelson, Director, Industry Engagement, The Nonwovens Institute

Open Innovation and a Human-centered Approach for the Nonwovens Industry

Matthew Tipper, Operations Director, Nonwovens Innovation & Research Institute (NIRI)

Potential of Additive Manufacturing and 3-D Printing for Nonwovens and Textiles (and absorbent cores/articles)

Olaf Isele, Ph.D., Nonwovens Consultant, Metaxi SimBioSys LLC

3D Highloft Technology and Applications

Tony De La Hoz, Process & Product Development Engineer, Hills Inc.

A Fully Flushable Wipe with Zero Issues in Sewage Treatment

Richard Reid, Regional Business Manager, Kelheim Fibres GmbH

Coffee & Networking Break

10:30 am - 11:00 am

INNOVATION III

11:00 am - 12:30 pm

Moderator: James Loftus, Ph.D., Principal, Loftus Technical Consulting, LLC

Intelligent Heating: A Flexible Conductive Coating for Nonwovens

Drake Goolsby, Director, Intellectual Property Commercialization, Battelle

Novel Approach to Developing Very Effective Antimicrobials

Nicholas Swain, CEO, Rep-L Antimicrobials, Inc.

Material Science + Medicine = Wellness Re-imagined

Jordan Schindler, CEO, Nufabrx

Lunch (Buffet Lunch Provided)

12:30 pm - 1:30 pm

MARKET DATA & INTELLIGENCE TRENDS

1:30 pm - 3:45 pm

Moderator: Jeffrey Bassett, Managing Director, Fi-Tech Inc.

U.S. Economic Outlook

John Connaughton, Ph.D., Barings Professor of Financial Economics, UNC- Charlotte

Market Dynamics and Trends That Are Driving Innovation in Nonwovens

Brad Kalil, Director of Market Intelligence and Economic Insights, INDA

A Patent Landscape Methodology for Nonwovens in Filtration

Angela D'Orio, Student, The Nonwovens Institute At North Carolina State University

Using the US Patent Database as a Strategic Tool

James Loftus, Consultant, Loftus Technical Consulting, LLC

INNOVATION IV

3:45 pm - 4:45 pm

Moderator: Chris Plotz, Director Of Technical Affairs, INDA

Fiber Finish/Component New Product Development for the Diaper / Hygiene Market

Kay McCoy, Technical Sales Representative, Pulcra Chemicals LLC

Sustainability and the Circular Economy: What X Are We Solving For?

Chris Plotz, Director of Technical Affairs, INDA

RISE® 2019 INNOVATION AWARD ANNOUNCEMENT

4:45 pm - 5:00 pm

Moderator: Dave Rouse, President, INDA, Association of the Nonwoven Fabrics Industry

CONFERENCE ADJOURNS

5:00 pm