OLNEY MEDAL ADDRESS

Crosslinking: A Route to Improve Cotton Performance
Charles Q. Yang, University of Georgia
CHEMICAL APPLICATIONS TRACK

► SESSION: Herman and Myrtle Goldstein Student Paper Competition
Moderator: Renzo Shamey, North Carolina State University

Low-Temperature and Near-Neutral Bleaching of Cotton with the TAED-activated Peroxide System
Xiaoxia Long, Jiangnan University, China

Characterization of Thermal Protective Clothing under Hot-Water and Pressurized Steam Exposure
Sumit Mandal, University of Alberta, Canada

Extraction, Characterization, and Evaluation of Proso Millet Starch: A New Polysaccharide Source for Textile Applications
Apurba Banerjee, Colorado State University

Post Use Analysis of Firefighter Turnout Gear: Phase III
Meredith Cinnamon, University of Kentucky

Titanium Dioxide Mediated Photocatalytic Degradation of Methylene Blue in a Fixed Film Type Photoreactor
Gayathri RamMohan, University of Florida

Colorant Database for Cationized Cotton
Sonali Mandal, North Carolina State University

Surface Modification of Nylon 6,6 Fabrics with Atmospheric Pressure Plasma for Enhancing Antistatic Property of Fabrics
Melek Gul, Istanbul Technical University, Turkey

► SESSION: Modification of Substrates’ Functionality
Moderator: Rembert J. Truesdale, TenCate Protective Fabrics NA

Novel Modification of Synthetic Materials for Durable Textile Coloring and Finishes
Kristoffer K. Stokes, Celgard LLC

Chemical and Biological Modifications of Hemp to Improve Spinning Properties
Mashiur Rahman, University of Manitoba, Canada

Analyses of Surfaces of Highly Conductive Cellulosic Fibers Created by Graphene Coatings
Ian R. Hardin, University of Georgia
Quality Assurance for an Evolving Antimicrobial Presence in Textiles
Timothy H. Byers, Consolidated Pathways Inc.

► SESSION: Sustainability in Textile Processing
Moderator: Kanti A. Jasani, Performance & Technical Textile Consulting

Cotton LCA: Water in Textile Processing
Michele Wallace, Cotton Incorporated

Enzymatic Preparation: Developments for Enhanced Performance and Sustainability
Mary Ankeny, Cotton Incorporated and André Krouwer, DuPont

High Performance Aldehyde Scavenger
Magali Belmas, NICCA USA Inc.

To Study Simultaneous Process of Bio-Polishing and Dyeing with Reactive Dye
Ravneet Kaur, Advanced Academy for Development of Textile Technologists (AADTT), India

Environmentally Friendlier Production of Wash-Durable, Flame-Proofed Cellulosic Substrates
David M. Lewis, Perachem (UK) Ltd., United Kingdom

► SESSION: Advances in Dyeing & Specialty Materials
Moderator: Patrick M. Browne, Huntsman

Innovative Reducing Agent
Wolfgang Höhn, Pulcra Chemicals GmbH, Germany

Novel Chemicals for Textile Applications
H. Gurumallesh Prabu, Alagappa University, India
CONCEPT 2 CONSUMER® (C2C) TRACK

► SESSION: Sourcing and Market Overview
Moderator: Sandra L. Johnson, Color Solutions International

*China’s Relevance in the New World Order a Low Cost Outsourcing Country*
  Anna Beaulieu, F&T Apparel LLC/LF USA

*Working with Off-Shore Manufacturing Partners: Challenges and Opportunities*
  Guy Carpenter, Cape Fear Apparel

*Reshoring: Realizing Reality*
  J. Keith Crisco, Former North Carolina Secretary of Commerce, SEAMS

*Pass-Through Analysis of Cotton Prices*
  Jon Devine, Cotton Incorporated

► SESSION: Printing
Moderator: Tiffany Eubanks, Innovative Textile Printing

*Digital Textile Printing Leaps Forward*
  Mark Sawchak, Expand Systems LLC

*Digital Printing of Textiles: A “How To” Discussion*
  David Clark, Huntsman Textile Effects

*3D Printing and Additive Manufacturing*
  Kerry King, Spoonflower Inc.

*Building a Fabric Printing Business in the USA, Digitally!*
  Steven Smith, DPIInnovations Inc.

► SESSION: Color and Lighting
Moderator: Tom Stutts, Datacolor

*Lighting Quality Metrics*
  Ann Laidlaw, RoLyn Group Color Consultants

*Best Practices in Apparel Supply Chain Color Communication—Reduce the Time it Takes to Achieve Color Approval*
  Michelle Roberts, Technical Textile Solutions
A Color Intervention: From CRAP to CAP
Heather Mangine, Under Armour

► SESSION: Product Performance and Testing
Moderator: Heidi Woodacre, Rothtec Engraving Corp.

Concept to Consumers—A Case Study of Cotton and New Markets
Janet O'Regan, Cotton Incorporated

Textile Finish’s Impact on Fabric Stain Removal and Whiteness
Maintenance during Home Laundry
Jiping Wang, Zhejiang Sci-Tech University, China

Assessing the Impact of Wash Water Temperature, Detergent Type and Laundering Platform on Basic Clothing Attributes
Elizabeth P. Easter, University of Kentucky

Testing of Electronically Conductive Textiles for Placement in a Medical Garment
Mary Ruppert-Stroescu, Oklahoma State University

Eco-friendly Textiles that are Benign by Design
Mark A. Browne, University of California, Santa Barbara

MATERIALS TRACK

► SESSION: Medical and Protective Textiles
Moderator: Seshadri S. Ramkumar, Texas Tech University

Potential Development of a New Cotton-based Antimicrobial Wipe
Ryan P. Slopek, USDA-ARS, Southern Regional Research Center

Halamine Chemistry and its Applications in Chemical and Biological Protective Materials
Gang Sun, University of California–Davis

Rehabilitation Performance Studies of Burn Pressure Garments with Antimicrobial Triclosan Chemical Agents
Nilufer Y. Varan, Istanbul Technical University, Turkey

MicroSilver BG™: A Novel, Pure Silver Antimicrobial with Highly Porous and Micro-sized Particles
Karl F. Richter, RFH BioTek Inc.
New Developments in Plasma Treatment of Cotton Nonwovens
Rory Wolf, Enercon Industries Corp.

Cell and Tissue Culture Scaffolds by Green Electrospinning
Seshadri S. Ramkumar, Texas Tech University

A Novel Fabric Softener Providing Moisture Management and Minimizing Drying Time
Michael Kutsenko, Goulston Technologies Inc.

Submicron Fiber Nonwovens from Ingeo®—A Sustainable Polymer for Filter Media
Gajanan Bhat, University of Tennessee

Continuous Dynamic Analysis: Evolution of Storage and Loss Modulus of a Fiber with Increasing Strain
Sandip Basu, Agilent Technologies

PURE Filter Sock
Nicole Nichols Wilson, Pure Filter Solutions

Measurement of Cotton Fiber Maturity and Fineness: Method Comparisons and Fiber Growth Analyses
James E. Rodgers III, USDA-ARS, Southern Regional Research Center

Pushing the Functional Limits of Textiles and Apparel
Jintu Fan, Cornell University

Photochromic Nanofibers
Zeeshan Khatri, Shinshu University, Japan

Designing of Chromatic Materials with Nanoparticles: Synthesis to Device Fabrication
Stephen H. Foulger, Clemson University
Cutting Edge Technology for Brand Protection and Anti-Counterfeiting Measures
Karim Berrada, Applied DNA Sciences Inc.

Microwave-Promoted Deposition of Functionalized, Nanoscopic Silica Coatings for Protective Textile Applications
Jeffrey Owens, Air Force Research Laboratory