

# Techtextil NA Symposium 2010

## Schedule of Events

### Tuesday, May 18

**9:00 – 11:30 a.m.**

#### General Session

- Keynote Address
- Welcome & Industry Overview Worldwide
- An Update on the Status of U.S. Manufacturing Sector, and Implications for Technical Textiles
- US Textiles Outlook & the Importance of Technical Textiles
- The REAL State of the Industry 2010 — What Have We Learned?

**1:30 – 4:00 p.m.**

#### Technical Textile Research

#### Natural Fibers & Sustainable Materials in Technical Textiles

- Sustainability — Shades of Green: An Introduction
- The Advantages of Flax & Natural Fibers in Composites
- Sustainable Alternatives to PVC for Contract & Coated Fabrics
- Bio-Resorbable Implants for 21st Century Medicine; Opportunities & Challenges
- Greener Technical Textiles — With Zero-Emission Thermoset Technology

#### High Performance Narrow Fabrics

- Three Dimensional Woven Fabrics — Quad Axial Isotropic Woven Narrow Fabric Structures
- Safety/Fall Protection — Narrow Fabric to Meet the New E-6 Specification
- Narrow Fabrics Used in Medical Device Development

- Liquid Crystal Fibers in Narrow Fabric

### Wednesday, May 19

**8:30 – 11:00 a.m.**

#### Military — Developments to Impact the Industry

- Doing Business with the Defense Department
- Mass Customization of Nonwoven Military Uniforms
- Fibrous Armor Developments
- Development of Nonwoven Fabrics for Military Applications
- Nanofiber Media for Protection against Hazardous Aerosols

#### Filtration — Practical Opportunities in Nonwovens

- The Affects of Increased Surface Area Media on Filter Performance
- Super High Surface Area Fibers
- Measured Breathability in a Composite
- Durable Elastomeric Microfiber Nonwovens
- Aerosol Filtration Properties of Electrospun Nylon 6 Nanofiber Webs
- Functional Fiber Coatings Based on Adsorption of Denatured Proteins

#### Unique Fiber & Yarn Developments

- Conductive Polyblend Fibers Made of Polyamide 6/ Polypropylene/Polyaniline for Smart Textile Applications: Electrical & Mechanical Properties
- Zero-Halogen FR-PET Filament That Will Not

- Generate Flaming Drips
- Highly Conducting Micro Fibers for Wearable Electronics
- Unique Microstructural Features of Innegra™ High Modulus Polypropylene Fibers
- Advanced Metal Clad Fibers — Meeting Today's Demanding Design Requirements
- Advances in Conductive Metal Fibers

**1:30 – 4:00 p.m.**

#### New Product Development

- New Product Development — Building Your Future
- Innovative, Customer Driven Product Development
- Developing Multifunctional Technical Textiles
- Incorporating the Supply Chain into New Product Development
- Marketing New Products
- Protecting Your Intelligent Property & Technology

#### Protective Textiles

- Emerging Markets for Retro-Reflective Fabrics & Public Safety
- CBN (Chemical, Biological, Nuclear) Protection for Law Enforcement & EMS
- FR Requirements & Materials for Law Enforcement Personnel
- New Standards & Updates on Soft Body Armor/Ballistic Protection
- Puncture Resistant Materials for Protective Applications

#### Nonwoven Technology Update

- Practical Experience with Carded Nonwovens Web Weight Leveling & How It Affects Your End Product
- Machinery & Methods in the "Nanofiber" Meltblown Process

- Ultrasonic Technology & Processing to Enhance the Quality & Performance of Nonwoven Materials
- Needlepunch: New Line Concepts for Nonwovens
- Benefits of Inorganic Mineral Additives in Fibers for Nonwovens
- High Performance Nonwovens for Outdoor Structures & Temporary Shelters

### Thursday, May 20

**8:30 – 11:00 a.m.**

#### Technology for Growth

- Taking Innovations to Another Level
- Advances in Self-supporting Nanofiber Mats by Electrospinning
- Textile Based Solar Cells — An Access for the Energy Supply of Microsystems
- Laser Welding of Textiles
- Activated Carbon Fiber Filter Media in Proton Exchange Membrane Fuel Cells for Automotives

#### Smart/Intelligent Fabrics

- Smart Fabrics & Textile Enhancements: Harnessing Nature
- Quantum Dots for Coloration & Sensor Technology on "Smart Textiles"

#### Medical & Biotechnology

- Medical Textiles — Where Are We Heading Now?
- The Emerging Role for Electro-Textiles in Medical Treatment Applications
- Use of Copper Oxide in Medical Devices — From Reduction of Nosocomial Infections to Wound Healing
- Functionalized Medical Textiles