THE FILTRATION INDUSTRY'S INFORMATION HUB

# e-Filter Newsletter

VOLUME 11, ISSUE 2 April 2010

Association of the Nonwoven Fabrics Industry

PO Box 1288
Cary, NC 27512-1288

Tel: 919.233.1210
Fax: 919.233.1282
info@inda.org
www.inda.org

INSIDE THIS ISSUE:



Welcome to e-FILTER, sponsored by INDA, Association of the Nonwoven Fabrics Industry. It is sent every other month to executives within the global filtration business and focuses on the latest news, new products, patents, legislative issues and commentary in the filtration industry. Check out the information at the end of this newsletter on how to subscribe or submit your company's information for inclusion.

# INDA NEWS:

## IDEA10 Features More Ways to Network

Filter companies can take advantage of all IDEA10 has to offer with a host of new offerings at this month's show. Utilizing the latest in communications technology as well a traditional print medium, three programs at the IDEA10 International Engineered Fabrics Conference and Exposition will allow exhibitors and attendees to connect with each other like never before possible.

The new IDEA10 social networking site and the debut of IDEA10 TV, being produced by Nonwovens Industry magazine, mark two significant steps in improved networking and communications before and during the three days of IDEA10, April 27-29, 2010, at the Miami Beach Convention Center in Miami Beach, Florida. In addition, the IDEA News show newspaper, being published by World Textile Publications, will highlight events and companies at IDEA10.

"We want everyone attending IDEA10 to be able to take full advantage of all that the event has to offer and the best way to do this is to improve their ability to network," says Rory Holmes, President of INDA. "Our new social networking site and IDEA TV will increase the personal communication and contact that has always been a vital aspect of IDEA and the IDEA News will provide a close look at some of the more interesting developments and products at IDEA10. It's all about networking with the goal of increasing business."

For the social networking site debut, all registered IDEA10 attendees and exhibitors will be sent an invitation to establish their own home page. The goal is to make it easier for attendees at IDEA10 to set up meetings, discuss important topics and to network in order to get the most out of the three-day event. Attendees are encouraged to register early, so that they can take advantage of this valuable service.

Among the features of the social networking site:

- Profiles of attendees who choose to participate, including individual backgrounds and interests at the conference.
- Private messaging that allows members to communicate directly both before and during the event.
- The site is event-specific and an integrated calendar allows attendees to create their own agendas, discuss sessions and see who else is in the session with them.
- A public comments section lets attendees discuss sessions, presentations and product introductions among themselves.

Marking the first time that live "television" will take place at an IDEA show, Nonwovens

Industry is producing IDEA TV, a video feed produced from the IDEA10 show floor. Featuring breaking news and special interest features as well as dynamic new marketing opportunities, IDEA TV will be broadcast over the internet and promoted via email to every registered IDEA attendee and subscriber to the Nonwovens Industry Breaking News at IDEA daily electronic newsletter.

From a marketing perspective, IDEA10 exhibitors can sponsor specific events or features with video introductions and closing tags. They can also provide full feature videos that act as commercials to the original video content. Nonwovens Industry will be providing video ad development and editing services for the short feature sponsorships, as well as hosting services for supplied, feature length commercial content. For information on IDEATV, contact Matt Carey, 201-825-2552; mcarey@rodpub.com

IDEA News will be published on the opening day of IDEA10 and will focus on exhibitor news, company profiles and important events during the three days. For more information on advertising opportunities, contact Ross Barker at rbarker@world-textile.net.

For more information on the IDEA10 International Engineered Fabrics Conference and Exposition: www.idea10.org.

# Finalists Selected For IDEA10 Achievement Awards

In other IDEA news, a total of 16 of the most innovative and successful new products in the nonwovens and engineered fabrics industries of the past three years have been nominated as finalists for the prestigious IDEA10 Achievement Awards. The finalists were selected from submissions in five separate categories and the winners will be announced during the IDEA10 International Engineered Fabrics Conference and Expo, April 27-29, 2010 in Miami Beach, Florida.

The IDEA10 Achievement Awards, co-sponsored by INDA, Association of the Nonwoven Fabrics industry, and Nonwovens Industry magazine, recognize the leading new products in five separate categories – Equipment, Raw Materials, Roll Goods, Short-Life End Product and Long-Life End Product – in the global engineered fabrics industry introduced since IDEA07.

"These IDEA Achievement Awards promote innovation and recognize outstanding achievement within the worldwide engineered fabrics community and it is fitting that they will be presented during IDEA10, the most important industry trade show of the year," says Rory Holmes, President of INDA, the organizer of the triennial IDEA Conference and Exposition.

Matt Carey, publisher of Nonwovens Industry, points out that IDEA10 is an ideal venue for promoting and rewarding innovation in the industry. "We have been intimately involved in this industry for more than three decades, and this partnership with INDA allows us to recognize the individuals and companies that have made the industry what it is today," Carey says.

The finalists:

EQUIPMENT
1. Elmarco: Nanospider™ Production Equipment
2. ITW Dynatec: Vector™ Modular Metering Platform
3. Teknoweb Srl: Futura Wet Wipes Converting Machine

RAW MATERIALS
1. Bostik: Relyance™ Adhesive
2. Kraton Polymers: MD6705 Stretch Technology
3. Tredegar: FlexFeel™ Elastic Laminate

ROLL GOODS (four finalists selected due to a tie in the selection voting)
1. Ahlstrom: Disruptor® nonwoven water filter media
2. Hollingsworth & Vose: Capaceon™ filter media
3. PGI: Spinlace Nonwoven
4. Sandler AG: sawasorb® exterior

SHORT LIFE CONVERTED PRODUCT
1. Henkel/Dial: Purex® Complete 3-in-1™ Laundry Sheets
2. Procter & Gamble: Always Infinity feminine hygiene pad
3. S.C. Johnson: Windex™ Outdoor All-in-One Cleaner

LONG-LIFE CONVERTED PRODUCT
1. DuPont: DuPont Nomex® KD
2. OMNOVA Solutions: Ecore™ Advanced Wall Technology
3. TenCate: TenCate GeoDetect®

For more information on IDEA10 International Engineered Fabrics Conference and Expo, April 27-29, 2010 in Miami Beach, Fla., go to www.idea10.net.

# FILTRATION INDUSTRY NEWS:

## Ahlstrom Joins UN Global Compact Initiative

Ahlstrom Corporation has signed the United Nations Global Compact Initiative and has been registered as a participant by the United Nations Global Compact Office. By supporting the initiative, Ahlstrom commits to voluntarily advancing sustainability with its stakeholders. Ahlstrom also wants to send a strong message along the value chain that it is alert to the environmental and social matters and is taking active steps to incorporate them in its strategy and risk management.

Ahlstrom's Code of Conduct and sustainability strategy are well in line with the 10 principles of the UN Global Compact. Ahlstrom applies a three legged approach in the management of sustainability in its value chain: sustainable supply chain of raw materials, ecologically efficient manufacturing and a holistic lifecycle thinking of its products. Economic, social and environmental responsibilities are taken into account in all three areas. The UN Global Compact is a strategic policy initiative for businesses that are committed to aligning their operations and strategies with 10 universally accepted principles in the areas of human rights, labor, environment and anti-corruption.

## Fiberweb Adds 3-D Geotex Product to Typar

Fiberweb, Inc., the manufacturer of Typar Geotextiles, recently introduced Typar Matrix 3-D Geotextiles, a new patent-pending generation of three-dimensional geotextile products designed to reduce soil erosion and help meet recently introduced Environmental Protection Agency (EPA) Construction & Development effluent limit guidelines. Typar Matrix 3-D Geotextiles is an innovative passive treatment system designed to work with silt fence, straw wattles and other traditional practices to ensure compliance with the new, more stringent, regulation. The regulation is significant as it is the first time the EPA has imposed national monitoring requirements and enforceable numeric limitations on construction and development site stormwater discharges.

Composed of a durable, nonwoven fabric in a honeycomb formation, Typar Matrix 3-D Geotextiles can be filled with sand, earth, rock, mulch or other specified material to produce a stable, self-supported filtration structure. Water flows through the structure while soil particles are retained, thereby reducing sediment run-off. Available in four sizes, this interlocking cellular confinement system offers durable, UV resistant performance. "The new stormwater regulations have created unprecedented challenges for managing construction erosion and sediment control. Traditional products are simply overwhelmed by the soil and water movement." said Arthur Cashin, director of Geotextiles Fiberweb Americas, "TYPAR Matrix 3-D Geotextiles provide a resilient, easy-to-use solution for meeting these new performance standards and compliance regulations."

# Pall Corporation Introduces New Filtration Process for Infant Formula

Pall Corporation, a global leader in filtration, separation and purification, recently introduced a new filtration process that significantly improves the safety and quality of infant formula. The Pall process is engineered to prevent microbial contamination through intensive filtration, while preserving nutritional quality by minimizing the need for repeated heat treatment during manufacturing.

Pall integrates several process components to raise the standard of purification and reduce the frequency and cumulative effect of heat treatment, including:

- Multiple filtration barriers to prevent microbial contamination at potential process entry points;
- A wide selection of filter products for effective microbial removal, designed for critical environments; and
- Advanced testing devices for the monitoring of critical filter integrity.

Pall products enable infant formula manufacturers to use less heat in the production process while helping to maximize product integrity and brand protection.

"Pall's synergistic and cost-effective fluid management process is particularly suited to the specific requirements of the infant formula market. Producers are highly concerned about potential contamination by heat resistant bacteria and require improved methods to remove bacteria without compromising nutrition. Pall provides filtration solutions that meet both product safety and nutritional value requirements," said Aline Sokol, marketing manager for global dairy markets.

# Applied Nanoscience Reports Test Results for NanoFense ™ Face Mask

Applied Nanoscience Inc., a nanotechnology-based filtration company, has received extremely positive test results on the effectiveness of the disposable NanoFense™ Protective Face Mask when challenged with the current swine influenza virus (H1N1). In addition, the proprietary NanoFense™ coating formulation proved to be equally effective when challenged directly with rhinovirus, the cause of the common cold. Both studies were conducted by a nationally recognized independent BSL-3 laboratory. The company expects to complete additional testing relating to an additional U.S. patent application shortly to further protect international efforts and the intellectual property portfolio already amassed.

The revolutionary disposable NanoFense™ Protective Face Mask will be made available as soon as possible in an effort to help protect people in some of the most heavily populated parts of the world. It will be sold in many of the countries where ANI has issued patents protecting their broad NEFT platform. The patent coverage includes three main methods of associating nanoparticles with filter media:

1. coating the filter media with a powder of nanoparticles,
2. impregnating the nanoparticles into the filter media, and
3. having pellets of nanoparticles located adjacent to the filter media.

# Filtration Patent Review

## Molded Respirator Comprising Meltblown Fiber Web with Staple Fibers

**Publication Number:** EP2162028

**Applicant:** 3M Innovative Properties Co.

**Inventors:** Angadjivand, Seyed, A., Brandner, John, M., Springett, James E.

**Abstract:** A molded respirator and method of making are disclosed, wherein the molded respirator is made from a porous nonwoven web containing meltblown fibers and staple fibers. The meltblown fibers may be present as a bimodal mixture of microfibers and mesofibers, and comprise an intermingled mixture with staple fibers further intermingled therein. The molded respirator may also contain at least one secondary filtration layer.

## Filter Element Including a Composite Filter Media

**Publication Number:** EP2161065

**Applicant:** BHA Group Holdings Inc.

**Inventors:** Smithies, Alan, Clements, Jack T., Mei, Jason

**Abstract:** : A filter element including a first and second end cap and a composite filter media structure is provided. The composite filter media structure includes a base substrate including a nonwoven synthetic fabric formed from a plurality of bicomponent synthetic fibers with a spunbond process, and having a bond area pattern including a plurality of substantially parallel discontinuous lines of bond area, the base substrate having a minimum filtration efficiency of about 50%, measured in accordance with ASHRAE 52.2-1999 test procedure, and a nanofiber layer deposited on one side of the base substrate by an by electro-blown spinning process, the nanofiber layer including a plurality of nanofibers, the composite filter media structure having a minimum filtration efficiency of about 75%, measured in accordance with ASHRAE 52.2-1999 test procedure, the composite media structure further including a plurality of corrugations, the corrugations formed using opposing corrugating rollers at a temperature of about 90-140°

## Method Of Manufacturing Composite Filter Media

**Publication Number:** EP2161066

**Applicant:** BHA Group Holdings Inc.

**Inventors:** Smithies, Alan, Clements, Jack T., Mei, Jason

**Abstract:** A method of making a composite filter media includes, in an exemplary aspect, forming a nonwoven fabric substrate that includes a plurality of bicomponent synthetic fibers by a spunbond process, calendering the nonwoven fabric substrate with embossing calender rolls to form a bond area pattern having a plurality of substantially parallel discontinuous lines of bond area to bond the synthetic bicomponent fibers together to form a nonwoven fabric. The nonwoven fabric has a minimum filtration efficiency of about 50%, measured in accordance with ASHRAE 52.2-1999 test procedure. The method also includes applying a nanofiber layer by electro-blown spinning a polymer solution to form a plurality of nanofibers on at least one side of the nonwoven fabric. The composite filter media has a filtration efficiency of at least about 75%, measured in accordance with ASHRAE 52.2-1999 test procedure. The method further includes corrugating the composite filter media using opposing corrugating rollers at a temperature of about 90-140°C.

## Electret materials

**Publication Number:**
US7666931

**Applicant:** Ciba Specialty Chemicals Corporation

**Inventors:** Chin, Hui, Gande, Matthew E., Leggio, Andrew J.

**Abstract:** Disclosed are electret materials with outstanding thermal and charge stability. The electret materials comprise a melt blend of a thermoplastic polymer and one or more hindered hydroxylamine ester compounds that comprise at least one moiety of the formula I where Raâ€² is a monoacyl or diacyl radical; R1-R4 are each C1-C6alkyl; and R5 and R6 are each, independently of one another, hydrogen, C1-C6alkyl or C6-C10aryl; orR5 and R6 are together oxygen. The melt blends are subjected to an electret treatment, for example a corona treatment. The electret materials are for example nonwoven polyolefin webs and are employed as filter materials, wipes, absorbent materials, filter masks, acoustic materials, printing substrates, measuring devices or contactless switches. The present electret materials may also comprise a further additive selected from the group consisting of the hindered amine light stabilizers, the hydroxyphenylalkylphosphonic esters or monoesters and the aromatic trisamide nucleating agents.