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Fabrics Industry

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e-Filter Newsletter

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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:

Filtration Conference and Exposition Slated for Fall



This year's annual International Filtration Conference and Exhibition is set for November 30-December 2 at the Philadelphia Convention Center, Philadelphia, PA. The event will kick off with a full conference program beginning on November 30 while the exhibition hall

will be open on December 1 and 2. More than 100 key companies are expected to exhibit at the event.

For additional information or to register, please contact Tracie Leatham, tleatham@inda.org, Tel. 919.233.1210 x 126

Vision 2011 Conference Heads to California With a Focus on the Future of Consumer Products and Nonwovens



An ambitious, far-ranging program that will focus on topics as diverse as Brand & Market Strategy, Social Trend Forecasting and Boomer Demographics will highlight the Vision 2011 Consumer Products Conference, scheduled for January 10-12 at the Park Hyatt

in Carlsbad, California.

Celebrating its tenth consecutive year as the most important conference bringing together the worlds of consumer products and nonwovens, the Vision Consumer Products Conference, which is organized by INDA, will once again focus attention on the role of nonwovens in consumer products ranging from diapers, feminine hygiene and incontinence

products to filtration, wipes and other personal care items.

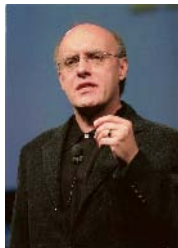
"The world of consumer products is constantly evolving and for the past decade the Vision Consumer Products Conference has kept the nonwovens industry and its related businesses up-to-date on these changes," says Rory Holmes, president of INDA. "Attendees at Vision 2011 will once again have the opportunity

to hear from some of the country's most well-respected experts on the topics that will now drive the consumer products and nonwovens industries for the next 10 years."

One of the unique new features of Vision 2011 will be a "Speed Networking" session. Described as "compressed networking in a low-pressure environment," Speed Networking provides attendees with three minutes to talk and share business cards with a fellow attendee before moving on to make another connection. They then spend the rest of their time at Vision cultivating those contacts and developing them into credible relationships. Space is limited and pre-registration is required.

Among the program highlights of Vision 2011:

- A session titled "The World Ahead: Global Trends Shaping the Future," led by Paul Leinberger, SVP Global Accounts, The Futures Company, will take a holistic view of



the global trends impacting how Americans live and work. Futurist Leinberger will address which trends are

going to be the most important to watch in the short-to-medium-term and which trends should be on most executives' watch list.

- "Global Hygiene Trends," presented by Pricie Hanna, of John R. Starr, Inc., will discuss new trends that are taking shape in the global hygiene market as the markets begin their recovery from the global recession. Attendees will learn what regions are recovering and which are flat or still struggling to gain their footing.



- "The Management of Innovation Metrics," led by Chris Andrews, Forrester Research, will explore the relationship between innovation and sustainable growth and ask the question, "Where does management fit in?"



- "A Flushability Update – What Consumers Flush" session led by David Powling, Kimberly-Clark and chairman of INDA's Flushability Task Force, will update attendees on what has happened in California with labeling legislation targeted at "flushable" products in an attempt to reduce sewer system blockages in the bay area.



- Special guest Keith Crisco, Secretary of Commerce, the State of North Carolina, will present a session on "What Tools Are in the Toolbox?" North Carolina's targeted, performance-based incentive programs greatly lessen the tax burden and lower the overall costs for companies who are locating and doing business in the state. Secretary Crisco will share how companies doing business in North Carolina can use incentive grants and tax credits and exemptions to help them grow and succeed.



- Joan Izzo, of Joan Izzo Communications, will present a session on "Networking Strategies That Make You Memorable." Vision 2011 attendees should attend this presentation if they would like to increase their network and referral making skills.



- A final session on "Sampling, the Hot Targeting Tactic," will be led by Kevin Burke, of Lucid Marketing. Traditional marketing has lost much of its luster, and in turn targeted



product sampling has become a go-to tactic for many marketers. It's especially effective in a pinched economy where mothers are looking to test products before investing in them, so they can feel confident in their purchase decision.

Another highlight of Vision 2011 will be the presentation of the prestigious 2011 Visionary Award, created to recognize the most



innovative use of nonwoven fabrics used in a consumer product. Finalists will make presentations to Vision attendees, who will then vote on the recipient of the 2011 Visionary Award. The recipient will be announced on the final day of Vision 2011. The finalists for the Visionary Award will be announced in October.

As usual, there will be plenty of networking opportunities at Vision 2011 with two nights of Table-top Displays and Networking Receptions. Vendors from the complete nonwovens/consumer products value chain will showcase their products during the Table-Top Displays and Receptions, making it an ideal opportunity to reach current and potential new customers from around the world.

For more information on exhibiting at the Table-Top Displays, contact Tracey Bailey at 919-233-1210, ext. 129, tbailey@inda.org. There are a limited number of spaces available, so please reserve your space as soon as possible.

Early registration for Vision 2011 ends in December. To register online go to www.inda.org, or call INDA at 919-233-1210.

FILTRATION INDUSTRY NEWS:

Ahlstrom to Buy Chinese Filter Maker



Ahlstrom has taken a further step in implementing its growth strategy in Asia through the acquisition of Shandong Puri Filter & Paper Products Ltd. in China from the Purico Group. The purchase amount was valued at €22.5 million.

Shandong Puri Filter & Paper Products is a producer of transportation filtration media and operates a plant in Binzhou in the province of Shandong in northeastern China. The site currently employs 170 persons.

"This acquisition is an integral part of our expansion in Asia, as it enables us to serve our global customers based in China and at the same time to build a platform in the country for further growth,"

said Jan Lång, president and CEO. "Together with our plant in Hyun Poong, South Korea, the acquisition enables us to grow our market share in the Asian transportation filtration market." The new site will be part of Ahlstrom's Filtration Business Area, which accounts for approximately one-fifth of the group's net sales. Ahlstrom currently generates about 10% of its annual net sales from Asia.

DuPont Invests in Battery Separators



DuPont has unveiled plans to build a new facility in Chesterfield County, VA to make Energain battery separators. This nanofiber-based polymeric battery separator can increase power 15-30%, increase battery life by up to 20% and improve battery separator safety by providing stability at high temperatures. With more battery power, drivers can travel farther on a single charge and accelerate more quickly and safely.

While the initial use of these separators are in hybrid and electric vehicle batteries, the technology is also being targeted for batteries in renewable energy, grid applications, specialty consumer applications including laptops, cell phones and power

tools. Other products made using DuPont's proprietary nanofiber technology will target a range of liquid filtration applications for biopharmaceutical, microelectronics and the food and beverage industries.

"This launch and our investment in a new production facility are important steps in our strategy to expand DuPont's role in energy storage," said Thomas Powell, president of DuPont Protection Technologies. "What sets DuPont apart is our integrated science and proven results for better, safer and more sustainable performance."

Calling Energain a breakthrough platform technology, Mr. Powell added that he expects to translate improvements we've seen in automotive battery applications to deliver equal or better battery performance in specialty consumer electronics, where reliable, faster

and longer lasting battery power are essential. DuPont estimates that by 2015, the market for high performance lithium batteries alone will total more than \$7 billion annually, primarily for electric vehicle applications and some photovoltaics and grid storage.

Energain is made using a proprietary spinning process that creates continuous filaments with diameters between 200 and 1000 nanometers. They can exhibit stability and low shrinkage in high temperatures and are highly saturable in electrolyte liquids.

DuPont has already been supplying the product from its sites in Wilmington, DE and Seoul, South Korea. The new facility is expected to start up in the first quarter of 2011.

Wells Shoemaker Passes Away

Wells Shoemaker, the founding father of the American Filtration and Separations Society (AFS), passed away this summer after a long career in the filtration industry.

As a young Cornell chemical engineer just leaving the Navy,

Shoemaker started his first filtration company 62 years ago, and was employed by three corporations involved with fibers, nonwoven fabrics and filtration. He became a registered Patent Agent. He then created Filterex to provide marketing and consulting services in the industry. He chaired AIChE's Separations

Program Committee, and then joined in the new English Filtration Society's activities in America. He was part of the team that then created the American Filtration Society 23 years ago.

Pall to Supply Rolls-Royce with Complete Filtration System for Trent XWB Engine

PALL Pall Corporation

Pall Corporation has been chosen by Rolls-Royce as its filtration supplier for the Trent XWB commercial aircraft engine, designed to power the Airbus A350 XWB family of extra-wide body commercial airliners. The Airbus A350 XWB has more than 500 announced orders from 33 global carriers, and is likely to be in service for decades to come. More than 6000 Airbus aircraft have been delivered worldwide,

and industry forecasts project over \$100 billion revenue from future commercial aircraft production.

The Trent XWB engine is due to enter service in 2013, and Pall deliveries have already begun in time for the engine's certification program. The first engine run of the Trent XWB was successfully completed in June of this year. The Rolls-Royce supply contract is for the life of the engine program.

"Rolls-Royce has set new standards for efficiency, life cycle cost and environmental impact

with the Trent XWB engine," said Jim Western, president, Pall Aerospace. The Trent XWB engine lubrication filtration system is based on Pall's patented Ultipleat filter technology, a laid-over pleat design that maximizes the filtration surface. The small envelope packaging results in a lightweight, high performance product. The Trent XWB utilizes Pall filters for both high pressure and low pressure lines in the engine compartment, improving fluid cleanliness levels and engine reliability.

Filter Patent Review

Nonwoven lyocell fiber webs for filtration

Patent application number: 20090324926

Applicant: Weyerhaeuser Co.

Inventor: Mengkui Luo

Abstract: Cellulose filtration products comprising nonwoven meltblown lyocell fiber webs in which the fibers have a diameter of from 3 to 12 microns, the largest pore diameter of less than about 300 microns and a mean flow pore diameter of less than about 150 microns are disclosed. Multilayer nonwoven lyocell fiber

webs are also disclosed which have lower mean flow pore diameters and lower pore sizes.

Functional filter medium

Applicant: Kurashiki Textile Manufacturing Co. Ltd.

Inventors: Masao Tamada, Noriaki Seyo, Yuji Ueki, Toshihide Takeda

Abstract: This invention relates to functional nonwoven filter media provided by radiation-induced graft copolymerization and its production method. Meltblown type of nonwoven (Meltblown) comprised of fine

fibers, less than 8 micron in diameter, of polyolefin or polyamide are chosen as the suitable grafting trunk polymer. The production methods are composed of following steps, 1) irradiation less than 30 kGy dose to the Meltblown with electron beam or gamma ray; 2) graft copolymerization of emulsified vinyl monomer onto the Meltblown; and 3) chemical conversion of ion exchange group onto the grafted vinyl monomer. These steps are independently conducted in their suitable operation conditions.

Nonwoven Blend with Electret Fiber

Patent number: 6926961

Applicant: Invista North America S.a.r.l.

Inventors: Douglas Duane Roth

Abstract: The present invention relates to a blend of 15-97 weight percent electret fibers and 3-85 percent by weight dissimilar non-electret fibers using dry laid blending technique. The electret fibers incorporate 0.05 to 30

weight percent charge control agents. Optionally, at least about 3 to about 50 weight percent of said blend is bicomponent fibers having a low melting component to bond the blend into a unitary nonwoven structure. The blend is bonded to form nonwoven webs that are used in making filter fabric and particularly air filter fabric. The charge control agents are selected from the class of triphenylmethanes; ammonium and immonium compounds; fluorinated ammonium and immonium compounds; bis-cationic acid amides; polymeric ammonium compounds; diallylam-

monium compounds; arylsulfide derivatives; phenol derivatives; phosphonium compounds and fluorinated phosphonium compounds; calix(n)arenes; metal complex compounds; benzimidazolones; and azines, thiazines or oxazines which are listed in the Color Index as Pigments, Solvent Dyes, Basic Dyes or Acid Dyes. The preferred blend contains electret fibers of polypropylene with one or more charge control agents and polyethylene terephthalate fibers having no charge control agents.