

INDA's e-Filter Newsletter

The Filtration Industry's Information Hub

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Welcome to e-FILTER, sponsored by INDA, Association of the Nonwoven Fabrics Industry (www.inda.org). 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.

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NOMINATIONS NOW OPEN FOR IDEA10 ACHIEVEMENT AWARDS

Nominations are now open for the prestigious IDEA10 Achievement Awards, which are once again being co-sponsored by INDA and Nonwovens Industry magazine. The awards, presented every three years in conjunction with the IDEA International Engineered Fabrics Exposition and Conference, are designed to award innovation within the nonwovens and engineered fabrics industries.

Nominations will be accepted through December 31, 2009.

The IDEA10 Achievement Awards will recognize the leading companies, individuals and new products in the global engineered fabrics industry. The awards will be presented on the show floor during IDEA10, April 27-29, 2010, at the Miami Convention Center in Miami Beach, FL.

All members of the global engineered fabrics industry are eligible for the IDEA10 Achievement Awards. Nominations can be made in five categories through a number of outlets, including the INDA website at www.inda.org and through the Nonwovens Industry site at www.nonwovens-industry.com.

A Selection Committee will then select three finalists in each category, and in early 2010 members of the industry will have the opportunity to vote on the recipient in each category through the Nonwovens Industry and INDA websites.

“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.

Nominations are being accepted in five categories:

- IDEA10 Equipment Achievement Award ... Given to the company with the best equipment new product introduction since IDEA07.
- IDEA10 Roll Goods Achievement Award ... Given to the company with the best roll goods new product introduction since IDEA07.
- IDEA10 Raw Material Achievement Award ... Given to the company with the best fiber/raw material new product introduction since IDEA07.
- IDEA10 Short-Life Product Achievement Award ... Presented for the best new disposable product utilizing engineered fabrics introduced since IDEA07.
- IDEA10 Long-Life Product Achievement Award ... Presented for the best new durable product utilizing engineered fabrics introduced since IDEA07.

Anyone with questions on the nomination process should contact project coordinator Michael Jacobsen at 201-396-7005; [mjacobson@inda.org](mailto:mjacobsen@inda.org).

FILTRATION 2009 AROUND THE CORNER: REGISTER NOW!

As the business of filtration continues to play an even more important role in industrial and consumer applications in every corner of the globe, the Filtration 2009 International Conference & Exposition – the world’s largest filtration event

– will bring thousands of industry professionals to Chicago’s Navy Pier for a three-day Conference and trade show.

Scheduled for November 17-19 in the Windy City, more than 100 exhibitors from all links in the filter supply chain will be showcasing the latest products, technologies and end products for filtration, while an extensive three-day Conference Program will cover diverse aspects of filtration technology, new products and research.

INDA, Association of the Nonwoven Fabrics Industry, the organizer of the annual event, expects close to 1500 attendees from 25 countries to gather in Chicago for Filtration 2009 to network, attend the Conference and walk the aisles of the Navy Pier exhibition hall.

“As it returns to Chicago after a successful show in Philadelphia last year, Filtration 2009 will certainly live up to its reputation as the most important and largest gathering of the global filtration business this year,” says INDA President Rory Holmes.

And, Holmes points out, Filtration 2009 comes at a time when the products made and sold by exhibitors and attendees are taking on increased importance in our everyday lives. “As the colder weather approaches, the industry focus is once again going to be on interior air quality as well as the control of airborne diseases and illnesses, such as the Swine Flu outbreak of last winter. The business of filtration is at the forefront of this battle and it will certainly be a topic of discussion at Filtration 2009.”

The Filtration show rotates between the Midwest and the Northeast and, as a result, each year 50% of the attendees are new from the previous show. This allows for a unique exchange of ideas among attendees and exhibitors while facilitating meetings among the local business community every two years.

In addition to the Exposition, the Filtration 2009 Conference will provide insight into the latest technical developments in filtration from some of the industry’s leading companies and research institutions.

“The Filtration 2009 Conference is the best place in the world this year for filtration executives to learn about the technical developments that will continue to drive this business in the 21st Century,” adds INDA technical director Steve Ogle. “The Conference this year is highlighting such vital topics as healthcare and nanotechnology, as well as air quality, air and liquid filtration and global trends.”

Always one of the highlights of Filtration 2009 will be the annual Best Booth Competition, which will recognize the best booths in both the Large and Small Booth categories. This gives all exhibitors the opportunity to be recognized for the effort they put into their displays at Filtration 2009.

For more information on the Filtration 2009 International Conference & Exposition: <http://www.inda.org/events/filt09>

FILTRATION 2009 EXHIBITORS CAN PROMOTE PRODUCTS IN THE DAILY FILTER

All exhibitors at the Filtration 2009 International Conference & Exposition in Chicago in November can promote the products and services they are highlighting at the event in the Daily Filter show newspaper. The Daily Filter will be distributed to all attendees at the first day of Filtration 2009, which is being held November 17-19 at Navy Pier in Chicago.

Attendees should send descriptions of the products and services they are highlighting at Filtration 2009 directly to Daily Filter editor Michael Jacobsen at [mjacobson@inda.org](mailto:mjacobsen@inda.org). Photos are welcome as well and should be sent as high-resolution JPEG files.

Deadline for submission of information is November 1.

Any companies interested in reaching Filtration 2009 attendees by advertising their products in the Daily Filter should contact Misty Ayers at mayers@inda.org.

FILTRATION INDUSTRY NEWS

PALL CORPORATION NAMED TOP GREEN COMPANY BY NEWSWEEK

Pall Corporation, a global leader in filtration, separation and purification, has been named one of the greenest companies in America by *Newsweek* magazine. Pall was ranked second in the industrial goods sector and 47th among America's 500 largest companies. The publication's first-ever list of "Green Companies" appears in the September 28th issue.

For more than a year, *Newsweek* analyzed data compiled by three research partners to determine scores for environmental impact, green policies and reputation. These scores were then combined with each company's greenhouse gas emissions and weighted. Pall received an overall Green Score of 81.94. According to *Newsweek*, many of the companies that finished in the top 100 are recognized leaders in sustainability.

Pall is a partner in the U.S. Environmental Protection Agency's Climate Leaders program, an industry-government partnership committed to developing long-term climate change strategies. Pall also participates in the Carbon Disclosure Project (CDP), a global initiative to inventory greenhouse gas (GHG) emissions and evaluate the risk of climate change to business operations. Pall's annual GHG inventory provides important baseline information that is used to make informed and effective policy decisions to reduce the company's carbon footprint.

The company adopted aggressive environmental sustainability goals as part of its long-term plan. Pall is on track to reduce its global carbon footprint by 10% in each of three categories, energy consumption, carbon emissions and waste output, by 2010.

“We are gratified to be ranked so favorably on Newsweek’s inaugural Green Companies list. Pall is dedicated to helping customers minimize their carbon footprints, maximize recycling and waste reduction efforts, and ensure the most efficient utilization of natural resources and raw materials. Our message to customers, employees and communities is the same. Protecting the environment is the right thing to do,” said Eric Krasnoff, Chairman and CEO.

NEW SPECIAL EDITION ORECK VACUUM HELPS ‘CLEAN FOR THE CURE’

In honor of October’s Breast Cancer Awareness Month, vacuum manufacturer Oreck Corporation, Nashville, TN, has designed two special edition vacuums to support the Susan G. Komen Foundation in the fight against breast cancer.

For every pink-accented Clean for the Cure special edition Oreck XL bagged vacuum purchased, Oreck will donate \$25 to Komen for the Cure, said company founder David Oreck. To date Oreck Corporation donated more than \$1 million to Komen for the Cure to search for the cure for breast cancer, putting them in the top 25% of donors to Susan G. Komen for the Cure.

The Clean for the Cure Oreck vacuums with disposable inner bags are fashionably black with pink piping, pink ribbon zipper fob charm, a pink base and have advanced filtration as well as Oreck’s antibacterial IntellaShield Technology. Lightweight yet powerful, Oreck vacuums are engineered for allergen control with a multi-layer hypo-allergenic filtration system and an advanced, patented self-sealing disposable inner bag. The filtration system eliminates 99.9% of allergens down to .3 microns (bacteria measures .4 to 10 microns), including bacteria, allergens, mold spores, dust mites, pet hair, dust, dirt and debris. The self-sealing patented SaniSeal inner bag is another layer of defense that locks in fine particles like allergens and bacteria as well as dirt and debris.

MOGUL ADDING MELTBLOWN CAPACITY

Turkish spunbond/meltblown producer Mogul will add a 1600 mm meltblown line with ultra fine fiber capabilities by November 2009. This new capacity will target the filtration and face mask markets and will be Mogul’s fourth meltblown line. In addition to pure meltblown, Mogul also makes spunmelt, SMS, MMM and other composite grade nonwovens based on PP, PBT, pulp and TPU for hygiene, home, apparel and industrial applications including spill control, medical, building industry, filtration and vacuum cleaner dust bags.

DAIKIN TO ACQUIRE AIR FILTRATION COMPANY NIPPON MUKI

Daikin Industries Ltd. has reached a definitive agreement with Nippon Sheet Glass Co. Ltd. to acquire Japanese air filter manufacturer Nippon Muki Co Ltd. for ¥5 billion. Nippon Muki manufactures and sells air filters and clean room products. The company has more than 300 employees and generated sales of ¥8.8 billion in the year to 31 March 2009.

Daikin Industries already owns American Air Filter International (AAF), which was acquired in 2007 as part of the OYL Group. Founded in 1921, AAF International is headquartered in Louisville, Kentucky, employs approximately 2600 people and has more than 20 manufacturing facilities worldwide.

APPLIED NANOSCIENCE TO PRODUCE 'NANOFENSE' FACE MASK

Applied Nanoscience Inc., Carlsbad, CA, a nanotechnology-based filtration development company, has reached a joint venture agreement to begin production on a disposable protective face mask with its Asia Pacific region partner. The protective mask will incorporate ANI's proprietary NanoFense™ technology, a U.S. patent pending antimicrobial nanoparticle formulation. When tested as a “coating” on disposable face masks, it has been validated to be effective against a broad spectrum of virus and bacteria by multiple independent BSL-3 laboratories in the United States.

ANI will be testing the NanoFense formulation against H1N1 but with the mask already proven to eradicate three influenza strains to include avian influenza, the company expects to see similarly high efficacy.

The companies have clearly defined the commercial relationship required and to be implemented in the execution of a product launch to non-U.S. markets for the NanoFense Protective Face Mask. Initial production will be 30,000 masks/day with the capability of increasing up to 90,000 masks/day on newly installed automatic equipment which operates seven days a week. ANI will supply the NanoFense formulation premixed under their label.

“We are very encouraged at the progress made with our new partner on this important project. They have requested anonymity until all formal product launch efforts are in place with customer support being our collective #1 priority. Their established customer base and solid reputation in the surgical/protective mask markets throughout the Asia Pacific region and Europe requires appropriate planning, especially at a time when people are in such need for a product to protect themselves and their families,” stated Thomas Allen, President and CEO, ANI.

The NanoFense Protective Face Mask will be sold in many of the countries where ANI has issued patents protecting their broad NEFT™ IP platform encompassing “Filtering Devices Incorporating Nanoparticles.” The growing technology platform combines any type of nanoparticle that is known or engineered to be capable of destroying viruses, bacteria, fungi or toxins with one or more hydrophobic or hydrophilic filters. 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.

TORAY JV UNDERWAY IN CHINA

Construction work has started on Toray BlueStar Membrane Co Ltd's reverse osmosis membrane production facility in Beijing, China. The company is planning to invest approximately Yn500 million in the new production facility, which is based in the industrial development area of Shunyi Airport in Beijing. The plant will produce reverse osmosis membrane and assemble membrane elements and is expected to be operational in April 2010.

TBMC is the recently established joint venture between Toray Industries Inc. and China National BlueStar (Group) Co Ltd. The new company has a capital of US\$35 million and 180 workers and is involved in the production, sales and import and export of water treatment membrane products.

INGEO RESINS NOW AVAILABLE FOR MELTBLOWN

NatureWorks has made two grades of its low-carbon footprint Ingeo bioresins commercially available for the production of meltblown nonwovens, fabrics widely used in such products as wipes and filters.

“As interest grows in polymers made from renewable resources, equipment manufacturers, process developers, and researchers have been exploring solutions that offer meltblown nonwoven fabrics that both perform well and achieve a lower carbon footprint than the existing petroleum-based incumbents,” said Robert Green, director of fibers and nonwovens, NatureWorks.

Mr. Green was referring to meltblown fiber equipment manufacturer Biax-FiberFilm, which earlier this year conducted meltblown tests of Ingeo, made from plant sugars, not oil. Researchers at the University of Tennessee Nonwovens Research Lab (UTNRL) also evaluated Ingeo for its suitability for meltblown fabric substrates using conventional meltblowing equipment.

“Our development of an Ingeo meltblown substrate significantly broadens the variety of applications in which this material can be used,” said Doug Brown, president, Biax-FiberFilm. “An Ingeo meltblown nonwoven offers an estimated 30-50% cost savings over conventional fiber-based nonwoven roll goods and a significant advantage in price stability compared to petroleum-based products.”

FREUDENBERG FILTERS TO BE USED ON WORLD’S LARGEST CRUISE SHIP

“Viledon” air filters from Freudenberg, Weinheim, Germany, are being installed on the “Ocean of the Seas” cruise ship currently being built in Finland. The cruise ship is owned by Royal Caribbean Cruise Line and will make its maiden voyage this December. Around 1300 Viledon filters and filter mounting frames will be installed on the ship for a variety of purposes including air conditioning, humidity control and in the engine room.

Freudenberg’s Viledon air filters have already been successfully installed on the ‘Liberty of the Seas’ since 2007.

FILTER PATENT REVIEW

Microfiber support nanofiber membrane

Pub Number: US7591883

Applicant: Cornell Research Foundation

Inventors: Kameoka, Jun, Nakano, Keiyo

Abstract: A nanofiber membrane is formed on a microfiber membrane. The nanofiber membrane may be electro sprayed directly onto the microfiber membrane and becomes integrated with the microfiber membrane to form a filter. The microfiber membrane provides structural integrity to for the

nanofiber membrane, and an additional microfiber membrane may be added to sandwich the nanofiber membrane.

Filtration medium

Pub. Number: US 5788862

Applicant: Pall Corporation

Inventors: Deben, Peter Bilich, Moira; Staff, Trevor; Geringer, John; Salinaro, Richard Frank

Abstract: The present invention provides a filtration medium comprising an ultrafiltration membrane and a monomer surface coating thereon of an acrylic or methacrylic acid monomer having alcohol functional groups, wherein the filtration medium after having been fully dried is characterized by having a titer reduction of at least about 10^3 with respect to PP7 bacteriophage and a critical wetting surface tension of at least about 70 mN/m. The filtration medium preferably further comprises a fibrous nonwoven web embedded in the membrane. The present invention also provides a method of filtering a fluid through the present inventive filtration medium, as well as a method of preparing such a filtration medium.

INDA MEETING SCHEDULE

[Filtration 2009 International Conference & Expo](#), November 17-19, Navy Pier, Chicago, Illinois

2010

[Vision 2010 Consumer Products Conference](#), Sheraton New Orleans, New Orleans, Louisiana

[IDEA 2010 International Conference & Expo](#), April 27-29, Miami Beach Convention Center, Miami Beach, Florida

[INDA Nonwovens Training Course](#), May 11-13, INDA Headquarters, Cary, North Carolina

[INDA Elementary Training Course](#), June 8-9, INDA Headquarters, Cary, North Carolina

[World of Wipes \(WOW\) 2010 Conference](#), June 21-23, InterContinental Chicago, Chicago, Illinois

[INDA Nonwovens Training Course](#), August 17-19, INDA Headquarters, Cary, North Carolina

[International Nonwovens Technical Conference \(INTC\) 2010](#), September 20-23, Hilton Baltimore, Baltimore, Maryland

[INDA Nonwovens Training Course](#), October 19-21, INDA Headquarters, Cary, North Carolina

[Filtration 2010 International Conference & Exposition](#), November 30-December 2, Pennsylvania Convention Center, Philadelphia, Pennsylvania

THAT'S ALL, FOR THIS MONTH ...

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