

# INDA's e-Filter Newsletter

The Filtration Industry's Information Hub

\*\*\*\*\*

**JANUARY 2, 2007**

**Volume 8, Issue 2 of the INDA e-FILTER Newsletter**

\*\*\*\*\*

**Welcome to e-FILTER**, sponsored by INDA, Association of the Nonwoven Fabrics Industry ([www.inda.org](http://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.

\*\*\*\*\*

***In This Issue:***

**INDA EVENTS/NEWS**

**FILTRATION 2006 ATTRACTED 2000 TO PHILADELPHIA**

**BEST LARGE AND SMALL BOOTHS HONORED AT FILTRATION 2006**

**INDUSTRY NEWS**

**AHLSTROM ENTERS LICENSING AGREEMENT WITH ARGONIDE**

**JOHNS MANVILLE INTRODUCES THREE FILTER PRODUCTS**

**KIMBERLY-CLARK FILTRATION JOINS ENERGY STAR**

**DUPONT INTRODUCES FILTERS FOR AUTO AIR QUALITY**

\*\*\*\*\*

## **INDA EVENTS/NEWS**

### **FILTRATION 2006 ATTRACTED 2000 TO PHILADELPHIA**

Attracted by an unparalleled conference program and new products from more than 125 exhibitors, close to 2000 filtration executives from around the world attended the record-setting Filtration 2006 International Conference and Exposition in Philadelphia, November 28-30.

INDA, the organizer of the annual event, reports that the number of exhibitors was up 10% from the previous year's Filtration 2005, which was held in Chicago.

With Filtration 2007 scheduled this year back in Chicago – November 13-15 at Navy Pier – INDA president Rory Holmes points out the unique nature of the annual trade show. “The interesting thing about Filtration is that each year half of the attendees are from the local region and the other half comes every year from around the country and around the world, giving us a new and different trade show every year.”

For more information on Filtration 2007 International Conference and Exposition: [www.inda.org](http://www.inda.org)

### **BEST LARGE AND SMALL BOOTHS HONORED AT FILTRATION 2006**

An annual tradition at the Filtration Exposition is the awarding of coveted Best Booth recognition for the most attractive, service-oriented and attendee-friendly exhibit. The winners for Filtration 2006:

***Best Large Booth*** (more than 200 square feet)

First Place: Lydall Filtration

Second Place (tie): Johns Manville and Fiberweb

***Best Small Booth*** (less than 200 square feet)

First Place: Sonobond Ultrasonics

Second Place: Midwest Filtration

***Best First-Time Exhibitor***

Sefar Filtration

## **INDUSTRY NEWS**

### **AHLSTROM ENTERS LICENSING AGREEMENT WITH ARGONIDE**

During Filtration 2006 in Philadelphia in November, Ahlstrom announced the completion of an exclusive licensing agreement with the Argonide Corporation to manufacture and commercialize their patented electropositive nanofiber filter media. The new Ahlstrom product is based on Argonide technology developed through basic research over the last five years.

The development was partially funded by NASA, aimed at purifying recycled water in advanced space vehicles, used on the moon and beyond. Ahlstrom and Argonide have been working together to obtain independent test data validating the effectiveness of the technology and to initiate the commercialization process.

Disruptor is a wet laid technology that is designed to be used in pleated, spiral wound, disc or flat sheet media formats. The key to the effectiveness of Disruptor is the grafting of alumina nanofibers onto microglass fiber. The microglass fiber acts as a platform for the nanoalumina while also enhancing flow rates through the creation of pore space and providing mechanical retention for large or uncharged particles. The nanoalumina fibers are approximately 2 nm in diameter and several hundred nm in length, having a typical surface area of 350-500 m<sup>2</sup> per gram. The blend of the nano and macro fibers in Disruptor allows for the creation of media with exceptional pressure drop to efficiency ratios and an incredible dust holding capacity.

Disruptor is designed as an alternative filter media to membranes for many applications. These include: Point Of Entry and Point Of Use potable water, pharmaceutical make up water, boiler feed water, chiller water, metals removal from waste water; filtration of gelatin, inks, starch, carbon, paint pigments and many other industrial and pharmaceutical processes.

### **JOHNS MANVILLE INTRODUCES THREE FILTER PRODUCTS**

Johns Manville Engineered Products has introduced three filtration products. “Our global presence, technological know-how and vast selection of filtration products including these three market-leading new products, demonstrates Johns Manville’s strong commitment to innovation,” says Fred Stephan, VP&GMM, High Performance Nonwovens for JM’s Engineered Products Group.

JM’s Composite Air Media is a composite nonwoven material made of natural and synthetic fibers developed for residential, light commercial and industrial HVAC applications. The media products are currently able to meet MERV 6 and 7 efficiency requirements and are characterized by low pressure drop and consistent mechanical filtration efficiency throughout the expected life of a filter manufactured with the media. Additionally, new media targeting the MERV 8 to 12 ranges are expected to be available in the near future.

Also introduced are PP and PBT meltblown media for liquid and air filtration. These products feature a mean pore size range between 0.2 to 10 microns that can be optimized to meet specific customer requirements for highly selective particle retention. Extremely small pore sizes, together with the narrow pore-size distribution, leads to best-in-class particle retention. The resulting performance allows filters to be extremely efficient in micro and particle filtration.

On the raw material side is JM’s launch of Biosoluble Glass Microfiber. This new class of glass microfiber features a unique chemical composition and is an ultra-small fiber used in manufacturing HEPA/ULPA-class mechanical filters, biosoluble glass microfiber and ideal for products for manufacturers conforming

to ASHRAE standards. Through a patented glass formulation, the microfiber has been designed to meet the EU's rigorous biosolubility criteria and initial testing results have shown that the material is meeting this goal.

### **KIMBERLY-CLARK FILTRATION JOINS ENERGY STAR**

Kimberly-Clark Filtration Products has become an Energy Star Partner, a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy helping businesses and individuals protect the environment through superior energy efficiency.

Kimberly-Clark Filtration Products will use its Energy Star Partnership as part of its efforts to help commercial, institutional and industrial facilities improve their HVAC system energy performance. The company supplies HVAC system air filter media with lower pressure drops than conventional air filtration media, which translates into reduced energy costs to operate the HVAC system.

“When you consider that heating and cooling accounts for 40% of a commercial building's total electricity use, the HVAC system is a perfect place to look for opportunities to save energy costs,” says Dave Matela, Kimberly-Clark Filtration Products. “As an Energy Star Partner, Kimberly-Clark Filtration Products will work with HVAC filter manufacturers, filter distributors, and facilities managers and engineers to help them improve indoor air quality and energy performance, while helping to reduce greenhouse gas emissions.”

According to the U.S. Department of Energy, adopting energy efficient design and technologies for new office buildings can cut energy costs by as much as 50%, while renovations to existing buildings that replace older systems with more energy-efficient technology can yield savings of up to 30%. A quick way to realize savings of 10 percent or more – at little or no investment – is to effectively operate and maintain existing systems such as HVAC.

Switching to a lower pressure drop HVAC filter is one of the easiest changes building owners and facility managers can make to reduce energy costs. That's because with a lower pressure drop filter, the HVAC system motor needs to overcome less resistance to deliver the required air flow, thus reducing the motor's energy consumption.

K-C Filtration Products recommends that facility professionals considering the energy costs of various HVAC filter technologies use an energy cost calculator such as the one found at [www.kcfiltration.com](http://www.kcfiltration.com) to analyze their HVAC operating costs and estimate the energy savings available with various air filtration technologies. They should also ask their filter supplier the following questions:

- At a given performance level, how much money could be saved by using a lower pressure drop filter?
- What pressure drop reduction offsets the difference in initial filter price?
- How much of the initial filter cost does that energy cost savings offset?

**DUPONT INTRODUCES FILTERS FOR AUTO AIR QUALITY**

DuPont Nonwovens recently introduced a line of automotive DuPont Premium Interior Air Filters, featuring filtering technology that cleans the outside air before it enters the cabin of the automobile. DuPont Premium Interior Air Filters capture up to 96 percent of fine dust, pollen, allergens and other airborne particles.

DuPont Premium Interior Air Filters also are available with an added Activated Carbon Layer that reduces unpleasant odors inside the vehicle.

"Many airborne particles found inside cars are less than one micron in diameter," said Matt Trerotola, VP&GM, DuPont Nonwovens. "Yet, these fine particles, according to research, pose health risks because their small size can penetrate the deepest portions of the lungs."

The air inside the vehicle may contain more particles than the outside air because it draws in vehicle exhaust, fine road dust, pollutants, allergens, and other harmful airborne particles through the fresh air vent. Approximately 40 percent of new cars built in the U.S. today are equipped with interior air filters, while more than 70 percent of cars made in Europe and Asia now include such filters, sometimes referred to as cabin air filters. Similar to furnace or air-conditioning system filters for the home, in-car air filters need to be changed regularly to be most effective.

\*\*\*\*\*

**THAT'S ALL, FOR THIS MONTH...**

To subscribe to the INDA E-FILTER newsletter and have e-mail notifications announcing new additions, please click "Ordering Form" in the index.

Any company with news for the INDA e-FILTER Newsletter, or any individual with something they want to say to the industry, should send an email to Michael Jacobsen, INDA, at [mjacobsen@inda.org](mailto:mjacobsen@inda.org); 201-612-6601; Fax 201-612-6677.