

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 monthly 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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TIME TO MAKE PLANS TO ATTEND FILTRATION 2004 IN DECEMBER

The much-anticipated Filtration International Conference and Exposition is just about one month away – December 7-9, 2004 – back on the East Coast at the Pennsylvania Convention Center, Philadelphia, PA. There are three ways to be involved in the largest and most important event in filtration in the world this year:

- ☞ Exhibit: Booth sales are almost sold out, but if you want your company to be part of the most important and largest filtration event of the year, contact Marilyn Bellinger at mbellinger@inda.org today to make your statement at Filtration 2004.
- ☞ Attend the Exposition: Just go to www.inda.org to pre-register and avoid the long first-day lines.
- ☞ Attend the Conference: Filtration end-uses will be the focus of INDA's Filtration 2004 conference. End-users will be on hand to tell you what they want, expect and need from their filtration products. Conference Sessions include: Emerging Markets, Homeland Defense, Automotive Filtration and Filtration Media.

By the way, Filtration 2004 Conference discounts are available for members of:

- ☞ American Filtration & Separations Society
- ☞ American Institute of Chemical Engineers
- ☞ EDANA
- ☞ Filter Manufacturers' Council
- ☞ Filtration Society of Europe/Asia
- ☞ GEO-Institute of American Society of Civil Engineers
- ☞ INDA
- ☞ Institute of Environmental Sciences and Technology
- ☞ National Air Filtration Association
- ☞ Society of Automotive Engineers
- ☞ TAPPI

ACT NOW TO GET FREE PUBLICITY IN DAILY FILTER NEWSPAPER

Filtration 2004 will once again be covered by the DAILY FILTER newspaper, "The Pore Man's Guide To Filtration 2004 International Conference and Exposition." Published by INDA, the organizers of Filtration 2004, the DAILY FILTER keeps the thousands of attendees up-to-date on events, new products and company news at Filtration 2004.

All Filtration 2004 exhibitors are welcome to submit their news and new product releases for publication free of charge in the DAILY FILTER. Just email the information -- along with a photo if available -- to [mjacobson@inda.org](mailto:mjacobsen@inda.org) for consideration for inclusion.

Advertising opportunities are available, from full-page ads to Classified Ads. Contact Misty Ayers at mayers@inda.org to find out how to get your message across to the buyers at Filtration 2004.

INDUSTRY NEWS

DAVID PALL, FOUNDER OF PALL CORPORATION, DIES AT 90

Dr. David Pall, who founded Pall Corporation in 1946, died on September 21st at his home in Roslyn Estates, N.Y. after a long illness. He was 90.

Dr. Pall received his Ph.D. in Physical Chemistry from McGill University in 1939 and worked as a research chemist on the Manhattan Project. He founded Pall Corporation in 1946 to commercialize his invention of a novel metallic filtration material. He was the scientific driving force behind Pall Corporation's growth into a global company and the world leader in filtration. He retired from the company in 1992.

Dr. Pall's technical interests and accomplishments ranged from aerospace to pharmaceuticals to medicine. A remarkable number of his inventions have become indispensable products used every day for such filtration applications as blood banking, drug production and aerospace systems.

He was the named inventor on 181 U.S. patents. In 1990 he was awarded the prestigious National Medal of Technology by President George Bush. The medal is the United States' highest honor in technology and is awarded to recognize exceptional contributions to the well being of the nation through technological innovation and commercialization.

Pall Corporation Chairman and CEO Eric Krasnoff said, "Armed only with an idea -- a revolutionary filtration material, Dr. Pall founded Pall Corporation in a Queens, N.Y. garage. Financial support and mentorship by his childhood friend and Pall Founder-Director Bram Appel made that start possible. Over the next half century, Dr. Pall's genius roamed far and wide to solve critical problems across a broad swath of health care, environmental and industrial applications. The eponymous Pall Corporation is one beneficiary of Dr. Pall's legacy. The world owes him an equal debt. We salute him and extend our sympathies to the Pall family."

FREEDONIA REPORT SAYS WATER/AIR SYSTEMS BIZ WILL REACH \$1.6 BILLION

Demand for consumer water purification and air cleaning systems is projected to increase 5.6% per year to \$1.6 billion in 2008, according to the recently published "Consumer Water Purification & Air Cleaning Systems" study from

The Freedonia Group. Gains will be driven by consumer concerns about the quality of the air and water in the home, and greater awareness of the healthful and aesthetic benefits of these systems.

In addition, existing owners of purification systems are continuing to upgrade to the more efficient and better performing equipment featured in higher value systems. The industry also creates a large market for replacement filters and membranes.

Water purification systems that feature conventional filtration media dominate the market, accounting for 81% of sales. Percentage growth for this segment will be outpaced by demand for higher value reverse osmosis and distillation systems. Gains will be fueled by their ability to process a broader range of contaminants compared to conventional filters.

In the air cleaner segment, electrostatic systems accounted for the largest share of value demand with 53% share in 2003, and will also achieve the most rapid gains through 2008. Demand for electrostatic air cleaners will be driven by the rising popularity of electrostatic precipitators. Systems with conventional media filtration accounted for the second largest share of air cleaner demand in 2003, with a 44% market share.

In 2003, water purification and air cleaning system demand was dominated by equipment intended for use in a limited area of the house. Point-of-use (POU) water purification systems, which are installed at a single outlet, had the largest share of demand for water systems in 2003, and are also expected to post stronger annual growth rates through 2008 compared to point-of-entry systems. Similarly, portable air cleaners, which are designed to treat the air in a single room, accounted for the largest share of sales of air cleaners in 2003 and will post faster growth through 2008 compared to whole-house air cleaners.

AFS SHIFTS FOCUS TO BUYERS AND USERS, EDUCATION

(From *Nonwovens Industry*) The energies of the American Filtration Society will now be focused on specifiers, buyers and users of filters and filtration equipment as well as the education of the industry. This redirection follows numerous requests from membership. AFS will concentrate on the interests of those who buy and use filters and their needs, whether it is training and education of the latest advances in filtration or separation technology or providing a venue to meet suppliers of filtration media, filters, filtration systems and equipment at AFS Conferences and Expositions.

In the past, AFS has served all the parties in the industry from the educator to the supplier of component parts and filter products. Also, in an effort to provide this new target audience with a more focused industry event, beginning in 2005, the American Institute of Chemical Engineers (AIChE) will co-locate its annual spring Conference and Exposition with the AFS in Atlanta, GA. In 2006, the AFS will be co-located with the Powder and Bulk Solids Show in Chicago, IL and the AFS Fall Topical Conferences will target specifiers, buyers and users of filters and filtration systems and education.

FREUDENBERG RESEARCH FINDS DEMAND FOR CLEANER AIR IN CARS

Consumers in the U.S. want cleaner air ... inside their vehicles. According to a consumer research study conducted for Freudenberg Nonwovens' filters division -- which produces micronAir cabin air filters for vehicles -- people are becoming increasingly aware of the quality of the air they breathe, not only at work and at home but also inside their vehicles.

The study, conducted by The Dohring Co., a provider of custom market research to the retail automotive community, found that 95% of respondents are concerned about certain air pollutants within their vehicle. "People are taking this issue seriously because it is serious. Studies show that contaminants inside a car can be up to 10 times more concentrated than outside," said Peter Adam, VP&GM, Freudenberg Nonwovens, North American Filtration Division. "This is due to the enclosed space and the 'tunnel effect.' Exhaust gases from the vehicles in front of you are sucked into your car as if you're driving inside a tunnel, which drastically increases the level of unfiltered pollutants inside the cabin."

Other results of the study include:

- 91% of respondents would like to see cabin air filters offered as a standard feature by vehicle manufacturers;
- 83% said they must have or would prefer that their next vehicle comes equipped with a cabin air filter; and
- 85% are concerned about the health effects of exhaust gases and vapors while driving; and almost half of the respondents are concerned about pollens, allergens, germs, dust particles, odors and smog.

"The reduction of particles and gases entering the vehicle interior is obviously important to maintain the health and safety of passengers," Adam said. "It becomes even more significant when 67% of respondents to our study indicated they either suffer from allergies and/or respiratory problems or live with someone who does. Cabin air filters can provide relief to allergy sufferers by filtering out contaminants which can trigger hay fever and other allergy problems."

"The results of this consumer study show that vehicle buyers are strong proponents of cabin air filters and that they believe their vehicles should be equipped with them," Adam said.

INDUSTRI TEXIL AND GORETEX IN JOINT EFFORT

Industri Textil Job AB, Sweden, has formed a joint company with GoreTex to sell industrial textiles in Finland, the Baltic States, and western Russia. The company supplies textiles for dust separation in flue gas cleaning, wet filtration, dewatering, and protective equipment.

PEERLESS AWARDED LARGE FILTRATION/SEPARATION CONTRACT

Peerless Mfg. has been awarded a multi-million dollar contract for the supply of several fuel gas conditioning systems. The fuel gas conditioning systems are for delivery to a major Korean contractor, at four locations in Saudi Arabia. These fuel gas conditioning systems, which will provide regulated natural gas as fuel

for power generation turbines, will utilize Peerless' proprietary gas filtration and separation equipment, and will be complete with instrumentation, controls and interconnecting piping. Shipment of this project is scheduled throughout calendar year 2004 and 2005.

EFP ENTERS INTO TESTING CONTRACT

Emergency Filtration Products has been awarded a Prototype Development/Testing/Evaluation Grant (PDT&E) to develop a testing protocol for filter media on behalf of the U.S. Military. As part of this project, EFP will begin testing its licensed nano-enhanced filter media at Edgewood Chemical Biological Center in Edgewood, MD within the next few weeks. The testing and evaluation process is expected to take approximately one month to complete, following which (assuming positive testing results), EFP expects to sub-license its nano-enhanced filter media to a Department of Defense approved manufacturer to enhance existing filtration products that are currently used by the U.S. Air Force, Army and Navy, as well as to commence development of new product applications that will serve to better protect U.S. Military personnel.

For the past 18 months, EFP has been working in conjunction with U.S. Army Research, Development & Engineering Command (RDECOM) to test its nano-enhanced 2H filter technology in order to accelerate the commercial development of a number of filter technology applications and allow for rapid procurement by the U.S. Department of Defense. RDECOM has been examining how to apply the company's filter technology to a large number of potential applications, including, but not limited to: biohazard masks, transportation (aircraft, tanks, armored personnel carriers) and buildings (military, industrial, office and residential). The program has conducted a number of cost and user needs' analyses, economic analyses and technical viability studies of EFP's proprietary licensed 2H Filter technology. Over 1,000 potential applications of EFP's filter technology have been identified by RDECOM.

LYDALL SELECTS NEW MARKETING AGENCY

Lydall recently selected Donaldson Makoski Inc as its marketing and advertising agency. The firm will assist Lydall in developing their overall positioning, brand image, print and electronic advertising, annual report and other marketing and corporate communications. Lydall is listed on the New York Stock Exchange with headquarters in Manchester, Connecticut. Lydall has four business units with operations in the U.S., France and Germany, including specialty engineered products for the thermal/acoustical and filtration/separation markets.

PALL NAMES FORMER RED CROSS EXEC TO HEAD MEDICAL BUSINESS

Allan Ross has joined Pall as president of the company's Medical division effective October 4. Ross, an eight-year veteran of the American Red Cross Biomedical Services, most recently served as senior VP and COO. He was responsible for 36 regional blood centers and nine testing laboratories serving almost 2500 hospital customers in the U.S. and Puerto Rico. He led strategic initiatives that increased sales and profitability of all key ARC product lines and improved the efficiency of its blood centers and national testing laboratories. These centers collect and distribute almost half of the U.S. blood supply.

Earlier this month, Pall reported fiscal 2004 sales of \$1.77 billion. This includes almost \$350 million in sales generated by its Medical businesses.

VIVA PLANS TO SHED FILTER SUBSIDIARIES

Viva International announced last month that it intends to divest its remaining non-core subsidiaries and is presently in discussion with groups interested in acquiring the Universal Filtration and Hardyston Distributors subsidiaries.

A company spokesman stated, "Viva has determined that their non-core subsidiaries have a greater value for the benefit of its shareholders by selling or merging with other operating companies than being left on the shelf or inactive. There is an ongoing cost of maintaining our inactive subsidiaries but no currently realizable or residual benefit either to the Company or its shareholders. Accordingly, we intend to pursue opportunities to sell or merge our non-core subsidiaries between now and the end of the year."

MANN+HUMMEL OPENS SALES OFFICE IN RUSSIA

MANN+HUMMEL, an original equipment supplier to the international automotive and mechanical engineering industries, has opened a sales office for its filter elements and industrial filters in Moscow. The new office will strengthen the company's international sales network and help increase aftermarket product sales, according to Claude Mathieu, president of MANN+HUMMEL USA.

MANN+HUMMEL develops and produces oil, air, fuel and cabin filters under the MANN-FILTER brand name with original equipment quality for use in passenger cars, commercial vehicles, motorcycles, as well as for marine applications. The new MANN-FILTER sales office will work closely with its Russian customers -- importers and distributors.

The company's industrial filters business unit offers filtration solutions for customers from various industrial areas, including industrial engines, construction and agricultural machinery, compressed-air technology and general mechanical engineering. In Russia, particular attention will focus on building a sales network and an original-equipment business, concentrating on compressed-air technology and construction and agricultural machinery.

TANDEC CONFERENCE SET FOR NOVEMBER

The upcoming Annual International TANDEC Nonwovens Conference will be held at UT Conference Center, Knoxville, Tennessee, November 9-11, 2004. It is a professional conference which focuses on New Developments in Nonwovens, Nanofiber Nonwovens, Melt Processing of Nonwovens ^ Innovations in Meltblown and Spunbond Technologies, Barrier Fabrics, Fundamental Research and Testing in Nonwovens. Beginning with the new development in nonwovens, you will receive concise and practical information on new nonwoven products and markets. You will also gain a firm understanding of the latest technological advances in meltblowing and spunbonding processes and products as well as other new nonwovens technologies.

For the conference program: <http://tancon.utk.edu/program.html>

To download the conference program in PDF:

<http://tancon.utk.edu/14thBrochure.pdf>

For registration information: <http://tancon.utk.edu/registra.html>

GUD ENDING AUTO FILTER PRODUCTION IN AUSTRALIA

GUD Holdings Ltd, best known for its Sunbeam household appliances and Victa lawnmowers, will cease making automotive filters in Australia from the end of February 2005. GUD's subsidiary, GUD Automotive Pty Ltd, will stop making the Ryco brand of filters at its plant at Tottenham in Victoria and instead source the products from overseas. The company's automotive business already imports half of its existing range, and it has decided to source the rest overseas after finding international suppliers that could match the quality of the Australian-made product but at a lower cost. GUD Automotive will still employ more than 50 people in sales and marketing, warehouse and distribution, engineering, administration and procurement.

ULTRAFILTER UNVEILS WATER FILTER

Ultrafilter (India) Private Ltd has launched a range of water purification products, Ultra Flo, in Bangalore. The Ultra Flo range uses a new technology called hollow fiber filtration membranes. It filters suspended particulate, colloidal material, bacteria and high molecular weight material between 0.1 and 0.01 micron. The filter can be used to purify surface and ground water, waste water treatment, besides reverse Osmosis pre-treatment (for high quality feed water) and many others. The home module of the product can be used to the outlet of the kitchen pipe or a kitchen sink.

FILTER PATENT REVIEW

FILTRATION DEVICE

Pub. Number: EP 1458452

Appl. Data: EP 02805340 2002 12 19

Applicant Pall Corporation

Inventors: DIEMER, Wolfgang; ZEILER, Martin

Abstract: A filtration device for filtration, comprising at least one filter unit in a closed filter housing, comprises at least one filtration station and a loading and removing station. The filter housing can be opened in at least one parting plane transversely to the longitudinal axis of the filter housing and is movable between the loading and removing station and the filtration station.

SEALED FILTRATION SYSTEM

U.S. Patent Number 6793813

Issue Date: 2004 09 21

Inventors: Ethridge, Oscar H.; Ethridge, Charlotte S.

Abstract A sealed filtration system includes a housing, having two chambers, that can be submerged. One chamber houses a plurality of subchambers in which various filter media are located, and the other chamber houses a submersible pump or additional filter media. A drain chamber and port is also

defined within the housing for each chamber. An external pump can be to the housing.

Water purification system and method, and module for the system

Pub. Number: EP 1457460

Appl. Data: EP 04290441 2004 02 19

Applicant: Millipore

Inventor: Gagniet, Yves

Abstract The invention relates to a method and a system for purifying water whereby the water to be purified is pressurized; a pressurized flow of said water is directed onto at least one selective permeability membrane to divide the flow of pressurized water into a permeate flow and a retentate flow; the permeate flow is electrodeionized to produce a flow of purified water consisting of the electrodeionized permeate flow; the flowrate of the retentate flow is reduced; a substantially constant predetermined pressure is maintained on the selective permeability membrane(s); and a substantially constant predetermined permeate flowrate is maintained. It also relates to a tangential filtration module suitable for the above kind of system.

THAT'S ALL, FOR THIS MONTH ...

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