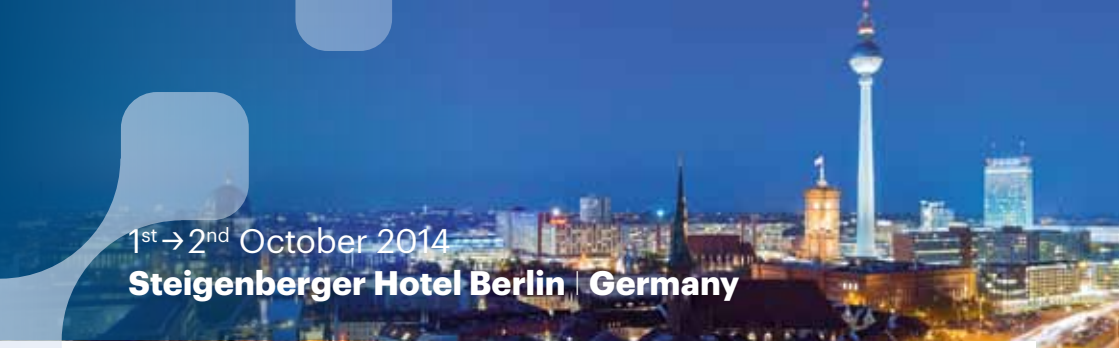


1st → 2nd October 2014
Steigenberger Hotel Berlin | Germany

Organised by edana™

FILTREX™ 14

"**THE FUTURE OF FILTRATION**" CONFERENCE & EXHIBITION

Conference Programme & Table Top Exhibition Catalogue

edana™
THE VOICE OF NONWOVENS

Organised by edana

FILTREX 14

YOUR BADGE

Please note that it is mandatory to wear your badge at all times.
Your badge gives you the access to the conference auditorium, table tops exhibition, lunches and cocktail party.

COCKTAIL PARTY

Don't miss this opportunity for relaxed networking. Business casual dress. Busses depart from the Steigenberger Hotel at 18.30 hrs.
EDANA will provide transportation to the cocktail venue and return to the conference hotel at 22:00 hrs.

KEYNOTE SPEAKER: ***Robert Glaze****, President at the Brenva Institute (USA)*
"What Happened to the Future? A Primer for the Uncertain Executive"

DELEGATE SURVEY

Your feedback is important in making sure our events continue to meet your needs and expectations. Help us make next EDANA event even better by completing the Delegate Evaluation Survey.
At the end of the conference, you will receive an email with a personalised link to complete the survey. We ask that you provide your feedback within 2 weeks.

By completing the survey, you will receive the link to the presentations from this Conference, and any other materials that may be available for your information or follow up.
Should you have any questions, please don't hesitate to contact abby.bailey@edana.org for assistance.

THANK YOU for joining us in Berlin for EDANA's 6th nonwovens Filtration Conference & Exhibition!

FUTURE EDANA EVENTS

Please visit our website **www.edana.org** for further details and reserve the following dates:

- 26TH & 27TH November 2014 | Singapore — ASIA OUTLOOK 2014
- 17TH & 18TH February 2015 | Dubaï — MIDDLE EAST & NORTH AFRICA NONWOVENS SYMPOSIUM & EXHIBITION
- 3RD → 5TH March 2015 | Sao Paulo, Brazil — OUTLOOK 2015 LATIN AMERICA PLUS
- 17TH & 18TH March 2015 | Hong Kong, Hong Kong — FILTREX ASIA
- 3RD & 4TH June 2015 | Prague, Czech Republic — INTERNATIONAL NONWOVENS SYMPOSIUM
- 24TH → 26TH September 2015 | TBC — OUTLOOK 2015

NEED HELP?

The EDANA staff is looking forward to helping you make your attendance at FILTREX 2014 a success for you and your business.

Thank You! The EDANA team

Wednesday, 1st OCTOBER

08.00→ 09.15 **Registration at the Steigenberger Hotel Berlin**
Please wear your badge at all times for easier networking

08.30→ 09.15 **Welcome Coffee and Opening of the Table Top Exhibition**
ENJOY A COFFEE, NETWORK WITH YOUR PEERS, AND VISIT THE EXHIBITION

09.15 → 09.30 **Introduction**
Pierre Wiertz
General Manager, EDANA (Belgium)

09.30→ 10.10 **Keynote Speaker**

"Impact of Urban Mobility on the Automotive Industry"
Philip G. Gott
Director, Long Range Planning, ***IHS Automotive*** *(United States)*

10.10 → 10.40 COFFEE BREAK & TABLE TOP EXHIBITION VISIT

10.40 → 12.10 session 1

Fuel in Filtration

Philippe Wijns
Director of Marketing, Engine & Industrial Filtration EMEA,
Hollingsworth & Vose *(Germany)*

Panel discussion

Driving the supply chain, how do the regulations for new diesel and other fuels affect the supply chain?

— Emissions requirements
— Fuel quality and biofuel impact
— Sustainability
— Service intervals
— Compliance testing: What comes after 2020?

PANEL MEMBERS

Harald Banzhaf*, Director R&D Liquid Filter Elements,* ***Mann and Hummel*** *(Germany) —* ***Mark Wolfinger****, Market Development Manager Performance Substrates Performance Coatings,* ***Lubrizol*** *(United States) —* ***Andrew Shepard****, Director Global Market Management Engine and Industrial Filtration,* ***Hollingsworth and Vose*** *(United States) —* ***Stefan Heppes****, Laboratory Manager,* ***SGS Germany*** *(Germany).*

12.10 → 14.00 LUNCH & TABLE TOP EXHIBITION

14.00 → 16.00

session 2
Innovation in Filter Media : Air Filtration

MODERATOR

Monica Cappello
Product Manager, Transportation Filtration, ***Ahlstrom*** *(Italy)*

Reducing Energy Consumption through Advances in Mechanical Ashrae Air Filtration Media

— Low energy consumption HD Ashrae media
— Cost savings by lower yearly energy consumption
— Energy consumptions calculated according Eurovent 4/11
— HD media available in efficiencies F7 to E11

Dr. Christian Desquilles
Applications Manager Europe, Lydall Performance Materials SAS (France)

New Glass/Synthetic Hybrid Filter Media Structures

— Micro glass fiber containing filter medium
— Beneficial filtration performance
— Synthetic spunbond nonwoven adding mechanical strength
— Easy processability

Dr.- Ing Jörg Meier
Market & Product Platform Manager Filtration, ***Johns Manville*** *(Germany)*

New Solutions for Improved Indoor Air Quality

— Technology platforms & product development for IA
— Flow2Save™ – latest developments & properties
— Pleat2Save™ – technical details & case studies
— What is next?

Dr. Dipl.-Ing. Ina Parker
Product Manager, Advanced Filtration, ***Ahlstrom Filtration*** *(United States)*

Spunmelt Fiber Size Distribution and its Effects on Filtration Properties

— Meltblown fiber size distribution
— Spunblown fiber size distribution
— Pore size
— Filtration efficiencies

Douglas Brown
President, ***Biax-Fiberfilm Corporation*** *(United States)*

Meltblown – Technologies for Future Demands

— Meltblown equipment
— Filtration
— Exchangeable technology
— Improved filtration efficiency

Dipl. Ing (FH) Markus Wüscht
Research Engineer Meltblown, ***Reifenhäuser Reicofil*** *(Germany)*

Panel discussion
Where is air filtration media heading?
Which are the main opportunities and the main challenges?
The panel will address the future of air filtration with discussion and sharing of ideas between all session 2 speakers

16.00 → 17.00 COFFEE BREAK & TABLE TOP EXHIBITION VISIT

17.00 → 18.00

session 3

Innovation in Filter Media: Finishing Technologies and Liquid Filtration

Dr. Werner Groh
Technology Leader EPEA Nonwovens, ***Johns Manville*** *(Germany)*

Novel Flame Retardant System that Retards the Flame but not the Flow
— Latest developments in non-halogen, non-particulate flame retardant chemistry for cellulosic air filter media
— Physical property comparison versus alternative technologies
— Effect on air filtration properties including air permeability, pressure drop and dust holding capacity

Mark Wolfinger
Market Development Manager, ***Lubrizol*** *(United States)*

Environmentally Friendly Low Pressure Plasma Nanocoatings for Filtration and Separation
— What is low pressure plasma?
— Low pressure plasma equipment
— Nanocoatings: hydrophilic, hydro- and oleophobic + case studies
— Environmentally friendly + economics

Ir. Eva Rogge
R&D Engineer, ***Europlasma*** *(Belgium)*

Enhanced Water/Fuel Coalescing Filter Media for Diesel Engine
— Coalescing filter media
— Coalescence process
— Diesel fuels characteristics

Hamidreza Arouni
PhD Postgraduate Researcher, ***University of Leeds*** *(United Kingdom)*

19.10 → 22.00

EDANA Cocktail/Dinner Party at the Orangerie Charlottenburg

The ideal opportunity for relaxed networking

Delegates must wear badges for access to the transport and cocktail.
Casual dress

WITH KEYNOTE SPEAKER

Robert Glaze

President, The Brenva Institute (United States)

What Happened to the Future? A Primer for the Uncertain Executive

This presentation addresses the uncertainty and complexity that has accompanied the rapid evolution of technologies in many diverse business areas in the past decade and the coordination of equally fast moving challenges of scaling, globalisation and disruptive business models.

Thursday, 2nd OCTOBER

08.00→ 09.00

Registration at the Steigenberger Hotel Berlin

Please wear your badge at all times for easier networking

08.00→ 09.00

Table Top Exhibition open

ENJOY A COFFEE, NETWORK WITH YOUR PEERS, AND VISIT THE EXHIBITION

09.00→ 10.00

Keynote Speaker

"The Lungs as a Portal Organ of Climate Change"

Prof. Dr Christian Witt

Professor of Pneumology, Charité – University Medicine Berlin, (Germany)

10.00 → 11.00 COFFEE BREAK & TABLE TOP EXHIBITION

11.00 → 13.00

session 4
Indoor Air Quality in Buildings

MODERATOR

Dr. Joerg Sievert
Chief Operating Officer, ***Freudenberg Filtration Technologies*** *(Germany)*

Ventilation for Buildings: Indoor and Outdoor Air Quality in Relation
- Revision of EN 13779 in the mandate of energy performance of buildings directive
- Recommended filtration for buildings considering revised EN 779
- Energy contra Indoor Air Quality
- Guideline for ventilation systems TR 13779

Dr.-Ing. Claus Händel
Technical Secretary, ***EVIA European Ventilation Industry Association*** *(Belgium)*

Long-Term Performance Reliability of Household Purifiers
- Life expectancy can be negatively affected by poor indoor air quality
- Indoor air purifiers can be used to improve the quality of indoor air
- Effectiveness of indoor air purifiers may deteriorate over time
- We present a method to quantify the effectiveness of new and aged indoor air purifiers

Dr.-Ing. Christof Asbach
Unit Head "Air Quality & Filtration", ***Institut für Energie- und Umwelttechnik e.V.*** *(Germany)*

Future Trends in Air Filter Test Standards
- Classification system of test standard EN779
- Disadvantages of test standard EN779
- Importance of fine dust fractions PM10, PM2.5, PM1
- New draft ISO16890

Dr.-Ing. Thomas Klamp
Manager Filter Technology, ***Trox*** *(Germany)*

Improved Indoor Air Quality by Energy Efficient Air Filtration
- Indoor air quality
- Energy efficiency
- Air filtration
- Fine dust

Dr. Thomas Caesar
Head of Filter Engineering Industrial Filtration, ***Freudenberg Filtration Technologies*** *(Germany)*

Panel discussion
How can we better define and measure indoor air quality?
The Panel will involve all speakers from session 4

13.00 → 14.00 LUNCH & TABLE TOP EXHIBITION

14.00 → 16.00

session 5

Modeling, Testing Methods and Process Optimization for Sub-micron Particle Filtration

MODERATOR

Prof. Jing Wang
*Assistance Professor, **ETH Zürich/Empa** (Switzerland)*

Influence of the Aerosol Generation on the Characterization of Complete Filter or Filter Media

— Impact of aerosol generation on filter testing
— Humidifying air supply for dust generator
— New VDI 3491 in accordance to aerosol generator for liquid and solid aerosol generation

Dipl.-Ing. Sven Schütz
*Sales & Applications Engineer, **Palas**© (Germany)*

Measurement Technology and Sub-Micron Particle Removal Efficiency of Clean Room Filters

— Measurement technology and development of clean room filters
— Filter testing in production and in clean rooms
— In-situ measurement using an example of a solution for security labs

M.Sc.Chem.Eng Mikael Eriksson
*R&D Laboratory Manager, **Camfil** (Sweden)*

Modeling Filtration Performance: Role of Structure

— Role of fiber orientation on filtration
— 3-D modelling of nonwoven structures
— Role of pleats on filtration

Behnam Pourdeyhimi
*Distinguished Professor & Executive Director, **The Nonwovens Institute** (United States)*

Manufacturing Challenges and Best Practices in the Scale up of Fine Fibre Production for Filter Media Based on Industrial Scale Electrospinning.

— The authors define key process variables in fine fiber production, specific to electrospinning
— We look at production data from known, qualified products – stability within a shift, from shift to shift and over longer time horizons
— We evaluate performance of fine fiber process compared to benchmarks
— We outline best practices in scaling production and maintaining stable performance

Fred Lybrand
*President, **Elmarco** (United States)*

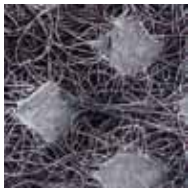
16.00 → 16.15 **Closing remarks and Farewell**

16.15 → 16.45 **Goodbye Drink & Final Networking**

THANKS

EDANA would like to thank the members of the Filtrex 2014 Steering Committee for their help in setting up this programme: ***Mrs Monica Cappello**, Ahlstrom, **Messrs André Boni**, Hollingsworth & Vose, **Maarten Broens**, Bonar, **Christian Hassmann**, Johns Manville, **Jochem Hofstetter**, Hollingsworth & Vose, **Peter Reich**, Sandler, **Joerg Sievert**, Freudenberg Filtration Technologies and **Christoph Stenzel**, Neenah Gessner.*

FUNDAMENTALS IN FILTRATION



A 2-day Training Course on the Fundamentals of Filtration and the use of Nonwovens in that market

26TH–27TH NOVEMBER 2014

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THE VOICE OF NONWOVENS

International Association Serving the Nonwovens & Related Industries

CALL FOR PAPERS

Organised by edana

FILTREX ASIA™

The Nonwovens Filtration conference & exhibition

17th → 18th March 2015

The Mira Hotel | Hong Kong

Building on the outstanding success of the previous editions in India and Korea, EDANA is pleased to announce FILTREX Asia 2015.

EDANA invites papers for the following conference topics :

- New filter media
- Innovative filter media technologies
- Market trends
- Automotive filtration (oil, fuel, engine, cabin)
- Air filtration
- Indoor air quality
- Air purifier
- Liquid filtration
- Gas filtration
- Air pollution control / Legislation
- Water treatment
- Filter testing and filter testing equipment

HOW TO APPLY

your one-page abstract should be submitted by 20th October 2014 to Giovanna Merola ✉ giovanna.merola@edana.org

FOR INFORMATION VISIT

www.edana.org

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Promote your company, services and products with the table top exhibition.

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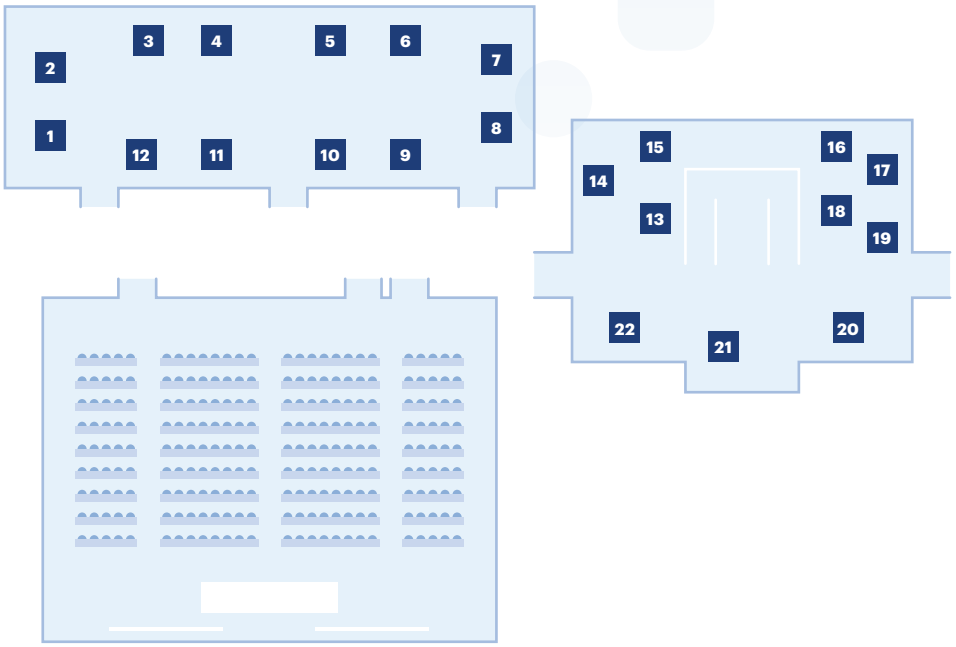
Noelia Fernandez

✉ noelia.fernandez@edana.org

Over 180 executives from 18 countries attended in 2013

edana™
THE VOICE OF NONWOVENS

List of exhibitors



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FILTREX 14

Meet our partners at the International Press Corner

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AHLSTROM

Ahlstrom

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→ STAND CONTACT

Mrs Monica Cappello, *Product Manager (Monica.Cappello@ahlstrom.com)*

→ PRESENTATION

Ahlstrom is a high performance fiber-based materials company, partnering with leading businesses around the world to help them stay ahead. We aim to grow with a product offering for clean and healthy environment. Our materials are used in everyday applications such as filters, medical fabrics, life science and diagnostics, wallcoverings and food packaging.

Ahlstrom is a global leader in design, development and manufacture of filter media solutions. Our filtration solutions cover wide range of industries from all Transportation applications to Advanced Air and Liquid Applications.

Transportation Filtration applications include Oil, Fuel, Air and Cabin Air for passenger and heavy duty vehicles. Advanced Filtration applications include High Efficiency Air, Power Generation, Laboratory, Medical Diagnostic, Water Filtration and Hydraulic Filtration.

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Cerex Advanced Fabrics / anowo

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→ STAND CONTACT

***Mr Oliver McDaid**, Marketing & Sales Manager (oliver.mcdaid@anowo.com)*

→ PRESENTATION

Cerex Advanced Fabrics. Nylon (polyamide 6,6) substrates have been the choice of media and filter manufacturers for over 40 years. The Cerex patented formation process creates a product unique to the filtration market.

Cerex products provide better web uniformity than other spunbond nonwovens thereby reducing the possibility of media migration and ensuring pleat integrity during manufacturing. Our products also offer better tensile and burst strength properties setting them apart from other webs. Moreover, Cerex fabrics deliver nearly one-half the thickness profile of other spunbond materials which present opportunities for increased filtration surface area and lower pressure differential.

Additionally, Cerex polyamide 6,6 filtration fabrics are chemically resistant where other nonwovens fail, and are ideal for use in gasoline and diesel fuel applications as well as hydraulic fluids with aggressive additive packages.

Our materials also are more tolerant of heat than other spunbonds with a melt point above 260C.

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Dr. Schenk

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www.drschenk.com

→ STAND CONTACT

***Mr Hans Örley**, Senior Manager Business Development*

→ PRESENTATION

Dr. Schenk GmbH, established in 1985, is an innovative high-tech company based near Munich, Germany.

Dr. Schenk develops, produces and markets optical surface inspection and measurement solutions for automated quality assurance and production process monitoring.

The systems are a key success factor in the making and converting of many materials, e.g. plastics, textile materials, nonwovens, paper, metal, or glass, for a multitude of markets like packaging, automotive, display glass, medical, renewable energy, and many more.

Throughout the world Dr. Schenk's 220 employees continue to set new standards for the inspection of surfaces. Over 10,000 m² of modern, cleanroom-capable production and testing facilities are available to research, development and production to apply cutting-edge optics and electronics to customer applications.

From modular standard units to highly customized systems – Dr. Schenk's solutions have precision in focus!

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ELMARCO

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→ STAND CONTACT

Dr. Michal Vaníček, *Key Account Manager (michal.vanicek@elmarco.com)*

→ PRESENTATION

Elmarco is the industry's first supplier of industrial scale nanofiber production equipment. Elmarco's Nanospider™ equipment is designed for the production of all sorts of organic and inorganic nanofibers.

The product range goes from laboratory equipment to industrial scale high volume production equipment,that delivers millions of square meters of cost effective, uniform nanofiber webs.

Needle-free Nanospider™ technology brings opportunities to create new unique materials in numerous applications including air and liquid filtration.

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FiberVisions and ES FIBERVISIONS

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→ STAND CONTACT

Mr Flemming Bynge, *Commercial Director EMEA (flemming.bynge@fibervisions.dk)*

→ PRESENTATION

Focused innovation and Global Leadership
ES FIBERVISIONS & FiberVisions are world-leading bicomponent and polyolefin fiber producers.

Our fibers are used extensively in air filtration (Industrial and residential HVAC) and liquid filtration applications.
Global presence with manufacturing capacity in the Americas, Europe and Asia (plus extended base through JV with JNC Corporation Japan).

Bi-component fiber solutions for Air Filtration – ask us how!

Benefits of Bico Fiber

- Wide range of dtex
- Wide range of fiber designs (cross sections / shapes / polymer types)
- Improved filtration performance in a CTA/CTB format vs. Resin Bond
- More flexibility in nonwoven design
- Polyolefins better at retaining static charge
- Low density gives better volume / weight ratio

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EUROPLASMA

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→ STAND CONTACT

Mr Kristof Hoornaert, *Sales Account Manager (Kristof.Hoornaert@Europlasma.be)*

→ PRESENTATION

Innovative functional Nanocoatings for Filtration Media Under the Brand Names "Nanofics 10®", "Nanofics 110®" and "Nanofics 120®" by Belgium based **Europlasma**, a world leader in low pressure plasma technology

These nanocoatings have been designed for both gas and liquid filtration media Nanofics 120® coatings are highly water repellent (contact angle 120°) and highly oil repellent (level 8) fluoropolymer type.

Nanofics 110® coatings are highly water repellent (contact angle 110°) and highly oil repellent (level 6) fluoropolymer type and completely free from PFOA and PFOS. Nanofics 10® coating has high affinity for water (contact angle 10°) to transform any filtration material - even PTFE - into a material with a permanently hydrophilic surface.

Europlasma supplied Roll-To-Roll low pressure plasma coating systems to more than 30 filtration companies worldwide and finds the best and unique solution for its customers material or needs.

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Freudenberg Filtration Technologies

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→ STAND CONTACT

Dr. Anja Coenen, *Application Engineer (anja.coenen@freudenberg-filter.com)*

→ PRESENTATION

Freudenberg Filtration Technologies provides first-rate filter products, comprehensive system solutions and value-adding services in air and liquid filtration for industrial, automotive and consumer related applications. Our comprehensive portfolio is marketed under two globally established brands, Viledon® and micronAir®. Headquartered in Weinheim, Germany, worldwide about 1.900 associates at more than 36 locations contribute to superior performance in filtration.

Our solutions are successfully used for the filtration of air and liquids, among others, in the fields of surface treatment, turbomachinery, cleanroom technology, corrosion and emission control as well as water solutions. As a development partner for the automotive industry, we produce cabin air filters and engine air intake air filters. Furthermore we provide solutions for office and household appliances, for medical technologies and many other technically challenging applications.

We help to save energy and to improve the quality of life - by enhancing industrial processes, by conserving resources and by protecting people's health and the environment.

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Hollingsworth & Vose

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→ STAND CONTACT

Mr Philippe Wijns, *Director of Marketing, Engine & Industrial Filtration (philippe.wijns@hovo.de)*

→ PRESENTATION

Hollingsworth & Vose Company is a global leader in the supply of technically advanced engine, high efficiency and liquid filtration media, battery separator materials and industrial nonwovens. The company operates manufacturing sites and research centers globally.

Our latest developments are:

NanoWave

- Indoor air pollution is considered one of the top environmental health risks: H&V offers a variety of highly engineered media that meet different global standards and offer lower pressure drop, energy savings, and longer media life.
- Our patented NanoWave® HVAC pocket media provide superior dust-holding capacity compared to traditional synthetic media and glass material.

Fuel Filtration Media

- H&V's fuel filtration media can provide filtration efficiency of up to 99.5% for particles over 4 microns and can achieve more than 150g/m2 of dust-holding capacity.
- New glass-free H&V media addresses the growing number of water separation challenges due to increased use of bio-fuels and lower IFT.

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Johns Manville Sales

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→ STAND CONTACT

Mr Roger Eckrich*, Senior Sales Manager Filtration & Industrial (Roger.Eckrich@jm.com)*

→ PRESENTATION

Where Clean Begins: JM Filtration Media

As a leading manufacturer of filtration media, Johns Manville (JM) offers the industry's broadest range of products. With years of experience and a deep understanding of the market, our state-of-the-art technology guarantees high-quality products. Our engineers and technicians are consistently working on new solutions to make your business stronger.

Our Production Technologies:

- Spunbond
- Wetlaid
- Meltblown
- Sliver & Yarn
- Airlaid
- Drylaid
- Composite
- Microfiber

JM's high-quality filtration media & fibers are used in different applications, including automotive filtration, liquid filtration, industrial air filtration, mist elimination, HVAC and HEPA & ULPA.

Innovation:

For the Air Pollution control market Johns Manville has developed a new filter media. Based on Johns Manville's proprietary bicomponent spunbond technology the new filter media offers superior filtration performance combined with excellent mechanical strength.

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Lenzing

LEADING FIBER INNOVATION

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→ STAND CONTACT

***Mr Andy Slater**, Business Development Technical Products (a.slater@lenzing.com)*

→ PRESENTATION

Lenzing's expertise sets the global standard for man-made cellulose fibers. TENCEL® and Lenzing Viscose® are naturally absorbent and pure, like the trees from which they are derived. These properties make them ideally suited for numerous applications such as wipes, hygiene, medical and technical products.

TENCEL® fibrillates when refined. The resultant circular shaped micro-fibers increase both durability and performance of liquid or gas filtration media.

After use, Lenzing fibers will biodegrade fully. This sustainable benefit is valued along the entire supply chain since many nonwoven applications are designed for single use.

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Lydall Performance Materials

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→ STAND CONTACT

***Mrs Pascale Blanckaert**, Applications Manager Europe (pblanckaert@lydall.com)*

→ PRESENTATION

Lydall Performance Materials is a leader in delivering innovative filtration and insulation solutions for demanding applications to enable a cleaner, healthier, and more energy efficient world.

We engineer technical nonwoven, membrane and composite products. Our broad knowledge of material science, fiber technology, binder chemistry and surface science of high-performance products is unique among materials manufacturers. We understand the needs of our markets and closely follow trends in technology, innovations, and regulations in order to serve our customers.

We use our applications expertise to get our customers to market faster, with products proven to hold up under the most demanding conditions.

We deliver filtration, insulation, and life sciences media globally, with a commitment to quality that ensures long term success for our customers.

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Nanoval

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→ STAND CONTACT

***Mr Christian Gerking**, Project Engineer (chr.gerking@nanoval.de)*

→ PRESENTATION

Nanoval has developed its own process for spinning melts (PP, PE, PA, PET, PPS, PBT, PLA) and solutions (cellulose, aramides) laid down to nonwovens, by a gas-dynamic split-swing effect, the Nanoval-effect, which was originally invented to atomize metal melts to powder, e.g. for 3D printing. It is a combined bursting and drawing of filaments, which is very robust – MFI: 17...1200 with same spinneret system.

Nanoval nonwovens have higher textile strengths than standard meltblown due to intermingling before lay down and a special structure. By consequence of the stochastic character of the Nanoval-effect finer and coarser filaments are intermingled during the same spinning step: A mixed nano/micro structure.

The share of finer fibers is increasing with throughput per hole – different to all other air-spun nonwovens. The energy consumption is lower in this self-activating effect. It covers spunbond and meltblown nonwovens as may be seen from the filament diameter range above.

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Norafin Industries

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www.norafin.com

→ STAND CONTACT

***Mr Vincent Lorentz**, Business Development Manager Filtration (vincent.lorentz@norafin.com)*

→ PRESENTATION

Norafin Crystalen® – High-performance Filter Media

Norafin, manufacturer of innovative spunlaced and needlepunched nonwovens, offers product solutions for process air and liquid filtration for applications in the mineral, metal, food and wood processing industries as well as for the natural gas and chemical industries. The filter materials manufactured under the brand name Norafin Crystalen® are distinguished by their high filtration efficiency, optimal air permeability and low differential pressure. There is a wide range of material options (processing of polyester, aramid, polyimide and other fibers) as well as additional functionalities (hydro-oleophobic, antistatic product options, etc.) available.

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P2i

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www.p2i.com

→ STAND CONTACT

***Mr Nick Rimmer**, VP Technical Sales Support/Business Development (nick.rimmer@p2i.com)*

→ PRESENTATION

As a technology solution provider, **P2i partners** with high performance air filter media and filter assembly companies, to enhance the performance of products by dramatically increasing both oil and water repellency. The nano-coating is able to permeate the substrate during application, attaching throughout the pore structures, without affecting the engineered pore size.

P2i is able to achieve exceedingly high levels of oil and water repellency because of the unique combination of pulsed-plasma deposition and the fluoropolymer chemistry of the coating. P2i has over 65 patent families protecting the intellectual property of this superior technology, process and application.

On-going research and development ensures new opportunities for P2i and its partners which will extend applicability to a wide range of technical textiles.

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PGI

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→ STAND CONTACT

***Mr Sean Kearsley**, Sales Director (sean.kearsley@pginw.com)*

→ PRESENTATION

PGI is a leading global engineered materials company focused on delivering innovative solutions that help our clients succeed. With more than 5,000 employees and manufacturing facilities throughout nine countries we support our purpose of being the premiere partner of choice for companies seeking innovative products that simply perform better and offer superior value.

PGI's filtration products have become the industry standard in the primary, support and pre-filter layers for both air and liquid filtration applications. From unique spunbond and meltblown technologies to composites and bonding, we translate our clients' specifications into finished products that have changed what's possible in filtration.

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Sandler

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→ STAND CONTACT

***Mr Peter Reich**, Manager, Filtration Products Division (Peter.Reich@sandler.de)*

→ PRESENTATION

Sandler AG ranks among the 15 largest nonwoven producers worldwide and continues to strengthen its international market position as a supplier of high-quality filter media.

The product range comprises carded and meltblown nonwovens as well as multi-layer composites. Fibre based, needle-punched nonwovens cover the grades G2 to M5. Fine dust filter media for filter classes up to E11 are produced using submicron fibres.

Sandler develops and produces media for HVAC applications, the automotive industry, synthetic vacuum cleaner bags, customised special filters for liquid filtration as well as medical and hygiene applications.

Self-supporting filter media are suitable for all common pleating technologies. Synthetic pocket filter media feature a low pressure drop, are shedding-free and bacteriostatic.

Latest developments in the field of pleatable filter media combine excellent filtration performance, low pressure drop and long operating lives with high mechanical and pleat stability. Sandler offers solutions for automotive cabin air filters and HVAC applications.

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Sterling Nonwovens

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→ STAND CONTACT

***Julian Bickford**, Managing Director (julian.bickford@sterling-nonwovens.com)*

→ PRESENTATION

Sterling Nonwovens are a UK based manufacturer of technical textiles; with a wide product portfolio, we offer technical solutions for challenging applications; market sectors include activated carbon, where we have over 50 years experience of applying activated carbon via impregnation; coating; spray and stenter processes.

Working with coconut base the carbon has a CTC rating of 120%; this is suitable for absorption of VOC including ozone and many malodours. Sterling also offers acid gas absorption and anti-bacterial products for specific end uses. Markets include: clothing; air filtration; medical devices; industrial applications.

Common base fibres include viscose and polyester; production capability includes needle punch; chemical and thermal bonded capability. Weight range is 18-600grm.

Sterling also offers in house slitting down 20mm: lamination; powder coating and dyeing additional capability includes cut parts and POS packaging.

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Textest

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→ STAND CONTACT

***Mr Reto Vogt**, CEO (info@textest.ch)*

→ PRESENTATION

TEXTEST supplies a complete family of Air Permeability Testers to the filtration and many other industries. The FX 3300 LabAir IV has become the standard instrument for laboratory applications. Instruments for on-line measurements, as well as instruments for testing of contaminated filters are also available. Furthermore, TEXTEST also manufactures the FX 3000 Hydrostatic Head Tester for determination of the water resistance.

Customers worldwide rely on TEXTEST's Swiss quality and on a customer service that earns the name.

The FX 3300 LabAir IV and the FX 3360 Portable Air Permeability Tester PORTAIR are on display in the table top exhibition.

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Topas

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→ STAND CONTACT

***Mr Christian Peters**, Marketing Manager (office@topas-gmbh.de)*

→ PRESENTATION

Topas GmbH Dresden is a specialist company in the field of particle technology and filter testing technology. Worldwide, our well established products have been used for basic scientific research in the field of aerosol technology and filter development for a long period of time.

Our standard product range comprises:

- filter testing technology and instruments
- aerosol generators (mono- and polydisperse, solid and liquid particles)
- particle size measuring instruments for aerosols and liquids
- aerosol dilution systems
- electrostatic aerosol neutralizers
- process aerosol monitors
- clean room measuring equipment
- pore size measuring instruments

Topas also provides solutions for special applications like the dispersion of complex powders, test stands for particle filters and for adsorptive filters, filter media testing, blow-by measuring etc. Many years of experience, our know-how as well as close cooperation with universities, research centres and industrial partners is the ideal basis for the development of new and innovative solutions.

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THE VOICE OF NONWOVENS

THE INTERNATIONAL ASSOCIATION SERVING THE NONWOVENS AND RELATED INDUSTRIES