



## TUESDAY 8 NOVEMBER 2022

**08.30 – 17.30****Registration desk open**

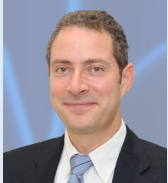
Please wear your badge at all times for easier networking

**08.30 – 09.00****Welcome coffee****09.00 – 09.15****Opening and welcome address****Jochem Hofstetter**

Chair of EDANA Filtration Working Group

Vice President and Managing Director, Europe, Middle East, Africa and India,  
**Hollingsworth & Vose** (Germany)

### SESSION 1: HEALTH

**MODERATOR****Marines Lagemaat**, Scientific and Technical Affairs Director, **EDANA****09.15 – 10.00****KEYNOTE: The change from sickcare to health care**

- Health as the most important societal pillar
- Health as an investment
- The need of keeping people healthy
- Providing health in and outside of the health sector
- The home as the health catalysator

**Joe-Max Wikam**, Vice Director of Health, **Copenhagen Institute for Future Studies** (Switzerland)**10.00 – 10.30****Stability of electrostatic charge under real life conditions**

- Electrostatic charge:
- Impact on air filtration
- Long term stability test of electrostatic charge
- Stability of electrostatic charge with different charging methods
- Energy saving potential by using electrically charged filters

**Simon Gravot**, Director R&D Filtration, **Neenah (Mativ)** (Germany)



10.30 – 11.00



### Using virus surrogate bacteriophage phi6 and human coronavirus 229E for determination of viral reduction efficacy in air and on surfaces

- Biological test approach using bioaerosols within air filtration testing standards
- Real-life in car testing using viral aerosols and determination of viral reduction efficacy
- Test set-up using human coronavirus 229E regarding the evaluation of interaction of the virus with textiles, filter media and surfaces

**Bernadette Führer**, Senior Scientist, **OFI Technology & Innovation** (Austria)

11.00 – 11.45

Coffee break and networking corners

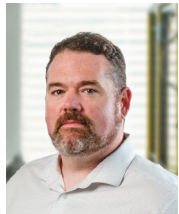
## SESSION 2: TECHNOLOGY



MODERATOR

**Dr Günter Müller**, Head of Sales - Filtration Products, **Sandler** (Germany)

11.45 – 12.15



### Defeating defects: new innovations in free-surface electrospinning

- Elmarco as the global leader in industrial electrospinning equipment and solutions
- Potential of nanofiber membrane applications in liquid filtration, performance apparel and battery separators
- Benefits of using of electrospun membranes vs. conventional membranes
- New generation of Nanospider technology (INFINITY line) which maintains the industrial, high-throughput, and scalable aspects with the ability to virtually eliminate critical membrane defects from these membranes

**Joshua Manasco**, Director of Application and Business Development, **Elmarco** (Czech Republic)

12.15 – 12.45



### Improved bonding structure for cleanable filter medium

- Cleanable filter media for industrial dedusting
- PET Bico Spunbond Technology
- Improved bonding pattern
- High mechanical strength
- Improved filtration performance

**Dr Jörg Meier**, Leader Global Product Development Filtration & Separation, **Johns Manville Europe** (Germany)



12.45 – 14.00

Lunch

14.00 – 14.30



### Enhancing filtration performances of wet-laid synthetic nonwovens through improved gradient structure

- Trinitex® is a unique and proprietary A-M technology
- Recent investments have been made in A-M Tampere plant to produce A-B-C structure for better gradient
- A new range of oil filters has been developed being very good solutions for transmission systems needed in new Electrical vehicles
- A-M is now developing A-B-C structures for air filtration applications in combination with a simulation software.

**Claire Prost**, R&D Manager and TCS Manager, Industrial Filtration, **Ahlstrom** (France)

## SESSION 3: SUSTAINABILITY



### MODERATOR

**Cédric Vallet**, Head of Business Development & Product Management  
Filtration Division, **Ahlstrom** (France)

14.30 – 15.00



### Synthetic air filter media: the key to sustainable highly efficient solutions

- Berry's proprietary charging technology for high-efficacy air filter media
- Synthetic charged meltblown media to enhance energy efficiency, improve recyclability and reduce carbon footprint
- Above 40% of recycled raw material is used in Berry's air filter media, thus contributing to a significant reduction of the media footprint

**Patrick Harz**, Product Development Engineer - Filtration, **Berry Global** (Germany)

15.00 – 15.30



### Profiled bicomponent fibres for coalescence filter media

- Liquid aerosols such as oil droplets endanger human health and can lead to severe lung diseases
- Coalescing filters are used to separate these oil droplets from air
- A pressure loss of 2-5 %, residual emissions of more than 20,000 particles/m<sup>3</sup> and clogging occurs at the filter media
- Profiled bicomponent fibres as a solution

**Leonie Beek**, Researcher, **Institut für Textiltechnik of RWTH Aachen University** (Germany)

15.30 – 16.15

Coffee break and networking corners



16.15 – 16.45



**Broadening the PLA portfolio by introducing a specific grade for meltblown, suitable for filtration applications**

- A new 100% PLA grade is being developed, specifically dedicated for the use in meltblown applications
- PLA product applications requiring microfiber structures can now also be produced
- Combined with other PLA grades, these can be combined into complex biobased nonwoven products, attaining air filtration levels comparable to incumbent materials

**Kristel Beckers**, Application Specialist, **TotalEnergies Corbion** (The Netherlands)

16.45 – 17.15



**Potential solutions for providing emission-reduced polyester staple fiber-based nonwovens in different applications including filtration**

- Polymers in general and Polyester fibres in particular are not necessarily bad for the environment
- Environmental dimensions of materials sustainability
- Mitigation strategies to further reduce environmental impact of Polyester fibre-based nonwovens: Life Cycle Perspective, Circular Solutions, Biodegradable polymer solutions
- Sustainable product Portfolio of the TWE Group

**Hugo Christiaen**, Director CSR, **TWE Group** (Belgium)

17.15 – 18.00

**FILTRE™ INNOVATION AWARD**

The nominees will each present their innovation in a short presentation. The audience will elect the winner to be announced during the cocktail.





18.45 – 21.30



**FILTREX™ COCKTAIL DINNER**

**The ideal opportunity for relaxed networking**

Please wear your badge at all times for easier networking

**Venue: Solar Berlin**

**Casual dress**

**Bus transfer:** First departure - 18.45, Second departure - 19.00



SOLAR- a 1970s tower nestled in the heart of Kreuzberg. The outdoor elevator will take you from the ground floor directly to the sky-restaurant with a spectacular 270 degree panorama at a height of 70 meters to enjoy the city view.



## WEDNESDAY 9 NOVEMBER 2022

**08.30 – 16.00****Registration desk open**

Please wear your badge at all times for easier networking

**08.30 – 09.00****Welcome coffee**

### SESSION 4: MOBILITY

**MODERATOR****Per Holst Rasmussen**, Business Manager, Medico/Filtration, **Fibertex Nonwovens** (Denmark)**09.00 – 09.45****KEYNOTE: EV readiness index**

- Evaluating the EV (electric vehicle) market
- Introducing the EV Readiness Index
- Focusing on sustainability in the EV space
- Analysing the infrastructure needs of EVs
- Assessing supply chains and EV batteries

**Fransua-Vytautas Razvadauskas**, Cities and Mobility Senior Consultant, **Euromonitor International** (Lithuania)**09.45 – 10.15****With safety and sustainability aboard - The first HL3 certified bag filters for railway applications**

- Relevance of air filtration on railway application
- Fire protection on railway
- Air filtration solutions to accommodate fire protection in rail

**Thorsten Stoffel, M.A.** | Global Product Manager, **Delbag** (Germany)**10.15 – 10.45****Where is the truth in HEPA cabin air?**

- What is HEPA Filtration, and why does it matter?
- Importance of clean air in vehicles
- What is in the market today
- New synthetic technologies enable “real” HEPA filtration in Cabin Air

**Dr. Ingrid Rückert**, Product Marketing Manager, **Hollingsworth & Vose** (Germany)

**10.45 – 11.30****Coffee break and networking corners****11.30 – 12.00****Clear air everywhere – Filtration technology for enhanced cabin air quality**

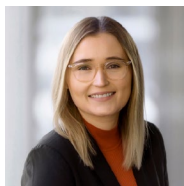
- Overview on air quality data and regulations outside and inside vehicle cabins
- Development of filter media technology ensuring best cabin air quality
- Impact on cabin air quality of different technologies (lab & field trials results)
- Outlook on future solutions for cabin air filtration

**Thomas Heininger**, Director Engineering Cabin Air Filtration, **MANN+HUMMEL** (Germany)

**12.00 – 12.30****Electret nonwovens for cabin air filtration/face masks: Investigation of submicron aerosol deposition using experiments and simulations**

- Investigation of particle deposition in electret filters/nonwovens for cabin air filtration/face masks
- Innovative simulation method that considers fibre charge modeling, particle-fibre charge interaction (and slip flow)
- Investigation of the electret filter/nonwoven wetting behaviour as an influencing factor in liquid particle deposition
- Novel method for local and global optimization of nonwovens for face masks

**Daniel Stoll**, Scientific Researcher, **Institute of Particle Process Engineering | Technische Universität Kaiserslautern** (Germany)

**12.30 – 13.45****Lunch****SESSION 5: TESTING****MODERATOR**

**Carolin Rieckmann**, Director Technical Textiles, **Schlegel und Partner** (Germany)

**13.45 – 14.15****New GB T 18801 Standard for air purifiers**

- Introduction to the new version of GB T 18801 China National Standard
- Valid in 2022 and closer reflecting real life
- Key new requirements
- Necessary testing resource and technical challenges

**Helen Woodworth**, Business Manager – Consumer Filtration Europe, **Freudenberg Filtration Technologies** (United Kingdom)

**14.15 – 14.45****Measuring pore size (distribution) in nonwoven filter and separation media**

- Insights into capillary flow porometry and the relevant data it generates for nonwoven filter media
- Explanation of different measurement methods within gas-liquid porometry
- Attention points and recommendations when measuring non-wovens

**Dana Dutczak**, Sales & Application Manager, **Porometer** (Belgium)

**14.45 – 15.30****Coffee break and networking corners****15.30 – 16.00****New ISO 10121-3 - first classification system for molecular filters for general ventilation**

- Test set-up & classification system for efficiencies against key molecular pollutants
- Impact on the requirements on composite-media with activated carbon or other adsorbents
- Timeline for implementation & impact on other guidelines

**Tobias Zimmer**, Vice President Global Product Management & International Standards, **Camfil** (Germany)

**16.00 – 16.30****Efficiency testing, influences of measuring technology and test parameters**

- Cabin air testing, ISO 11155-1
- Face mask testing
- EN 149
- ISO 16890
- Filter test, Fractional efficiency testing

**Martin Klaus Schmidt**, Division Manager Industry & Science, **Palas** (Germany)

**16.30 – 16.40****Closing words****16.40 – 17.00****Goodbye drink**

**EDANA would like to thank the members of the FILTREX™ 2022 Programme Advisors for their help in setting up this programme:**

Jochem **Hofstetter**, Hollingsworth & Vose

Christian **Hassmann**, Johns Manville

Oliver **Staudenmayer**, Freudenberg Filtration Technologies



Organised by **edana**

**FILTREX**  
A FILTRATION CONFERENCE & EXHIBITION



**PROGRAMME**

**8 – 9 November 2022**

RADISSON BLU HOTEL | BERLIN, GERMANY

**EDANA also thanks our special partner:**



This programme may be subject to last minute changes and cancellations.

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