

## Wednesday 9<sup>th</sup> June 2021

09.20 > 09.25



### OPENING AND WELCOME

**Pierre Wiertz**, General Manager, **EDANA** (Belgium)

09.30 > 09.50

### MORNING NETWORKING

09.55 > 10.20



### 2020 : A RECORD YEAR FOR NONWOVENS IN GREATER EUROPE

- Economic Background
- Market Segments Trends
- Evolution by Production Process
- H H H ?

**Jacques Prigneaux**, Market Analysis & Economic Affairs Director, **EDANA** (Belgium)

10.25 > 10.50



### THE PANEUROMED CONVENTION ON RULES OF ORIGIN FROM A TEXTILES/NONWOVENS PERSPECTIVE

- The aim of the PanEuroMed Convention
- Why are Rules of Origin important?
- Textile and Clothing Rules of Origin in EU Trade agreements

**Mikael Garellick**, Trade Affairs Officer, **European Commission, DG GROW** (Belgium)

10.55 > 11.15



### SUSTAINABILITY CHALLENGES AND OPPORTUNITIES IN RECYCLING TEXTILE WASTES INTO DURABLE NONWOVENS

- ANDRITZ Laroche is proposing tailor made recycling and nonwoven solutions for sustainable management of textile waste
- Innovative solutions to remove the non-textiles from old clothes while processing the materials on a very smooth way to maximize fibre quality
- Recycled fibres to be used in the production of garments and/or nonwovens depending on their quality
- Development of durable applications for industries like automotive, bedding, and building insulation using our latest Airlay technology development

**Francis Elias Junker**, Area Sales Manager, **ANDRITZ Laroche** (France)

11.20 &gt; 11.40



### CERTIFIED CIRCULAR POLYPROPYLENE FOR THE NONWOVENS INDUSTRY BASED ON HIGH-PURITY RECYCLED PLASTICS

- Circular solutions span from feedstock recycling of used plastics; renewables products from bio based feedstock and closed loop initiatives to recycle used plastic materials back into high quality nonwovens
- Combining collaboration, sustainability and innovation to support the fast-changing needs of our customers as well as the global community in nonwovens
- Customer collaboration examples: the world's first nonwoven made with certified circular polypropylene based on high-purity recycled plastics and closed loop model

**Jelena Bozovic-Vukic**, Global Marketing Manager and Market Development Technical Service Leader For Personal Hygiene Business, **SABIC** (Netherlands)

11.45 &gt; 12.05



### CIRCULAR ECONOMY FOR ACOUSTIC SOLUTIONS BASED ON POLYESTER NONWOVENS

- In offices and at home people are looking to make their lives more comfortable by reducing noise
- Nonwovens offer highly efficient, lightweight and sustainable solutions
- Using the example of acoustic panels made from polyester fibers show how circular economy can be realised

**Gerhard Klier**, Sales Director Durables, **Sandler** (Germany)

12.10 &gt; 12.30



### DEVELOPMENT OF SUSTAINABLE AND AESTHETIC ACOUSTIC NONWOVENS

- Noise has negative effects on the human psychological health and it is a must to attenuate the noise levels in order to have a healthy ecosystem
- Needle-punched nonwovens are very suitable for being used as sound absorbers since during the needle punching process, needles create an enormous amount of holes on the surface, enabling the incident sound to pass through effectively.
- Needle-punched nonwovens produced with recycled fibers which are suitable for the circular economy also can provide an aesthetic view in order to use in public areas such as meeting rooms, open offices, conference halls, etc.

**Umut Burak Dalbudak**, R&D Manager, **Hassan** (Turkey)

12.30 &gt; 14.00

### PRODUCT PRESENTATIONS / NETWORKING/ DEDICATED COMPANY MEETINGS

12.30 &gt; 13.00

**Product Presentation & live Q&A - Spooler**

13.00 &gt; 13.30

**Product Presentation & live Q&A - The sustainable product portfolio of TWE Group**

13.30 &gt; 14.00

**Product Presentation & live Q&A - MONDON - Winding & Converting Machines: Integration of an automatic turret unwinder on a production line**

14.00 &gt; 14.20



### VLIESRTM - REUSE OF CARBON FIBER WASTE IN COMPOSITE STRUCTURES

- Recycling of waste out of carbon fiber
- Optimization and identification of interactions between nonwoven production and consolidation
- Mechanical characterization of composites produced in the resin transfer molding (rtm) and the wet compression molding (wcm) processes
- 100% rcf nonwovens and also the direct combination of nonwovens with multi-axial structures were investigated

**Dipl.-Ing. (BA) Marcel Hofmann**, Head of Department Textile Lightweight Engineering, **Saxon Textile Research Institute (STFI)** (Germany)

14.25 &gt; 14.45



### HEALTHCARE PACKAGING – FROM LINEAR VALUE CHAIN TOWARDS A CIRCULAR ECONOMY

- Understanding the challenges in transforming healthcare packaging for circular economy in evolving regulatory environment
- Opportunities in recycling technologies for post-industrial and post-consumer waste
- Importance of collaborating along the value chain

**Juha-Pekka Pöyry**, Technical Marketing Specialist, **DuPont™ Safety – Healthcare** (Luxembourg)

14.50 &gt; 15.10



### DEVELOPMENT OF AN ECO-CALCULATOR

- Goals of the eco-calculator
- Data collection methodology
- Environmental assessment methodology
- Features offered by the tool

**Isabelle Kugler**, Marketing & Communication Manager, **Freudenberg Performance Materials** (France)

15.15 &gt; 15.35



### BALANCING ENVIRONMENTAL SUSTAINABILITY IMPROVEMENTS AND ECONOMIC CONSTRAINTS : A CASE STUDY IN NONWOVEN GEOTEXTILES

- Sustainability core businesses are better positioned to anticipate and react to economic, social, environmental, and regulatory changes
- Profitability case: PET new fibers nonwoven geotextiles /PET recycled fibers nonwoven geotextiles

**Dr. Corina Ross**, Managing Consultant, **Ross Consulting & Solutions** (Germany)

15.40 &gt; 16.10

### GROUP DISCUSSION: SUSTAINABILITY & ECONOMIC CONSTRAINTS

15.40 &gt; 16.00

**Product Presentation & live Q&A: EDANA's Nonwovens You Say? campaign**

16.00 &gt; 16.30

**Product Presentation & live Q&A: Tentoma - RoRo StretchPack® - 100% waterproof and film saving packaging**

16.30 &gt; 17.00

**Product Presentation & live Q&A: TSI - Mask Testing with 8130A and other TSI Filter Testers**

17.00 &gt; 17.30

**Product Presentation & live Q&A: Ask all your questions about INDEX™20, October 2021**

Thursday 10<sup>th</sup> June 2021

08.15 &gt; 08.20

**WELCOME & INTRODUCTIONS****Seán Kerrigan**, Director of Communications & Media Relations, **EDANA** (Belgium)

08.25 &gt; 08.45

**MORNING COFFEE/TEA NETWORKING**

08.50 &gt; 09.10

**OPPORTUNITIES FOR MELTBLOWN FABRICS**

NIRI will introduce and discuss key opportunities within the following markets:

- Personal protective equipment (PPE), including face masks
- Filtration
- Absorbents
- Emerging applications

**Dr Ross Ward**, New Business Development Manager, **Nonwovens Innovation & Research Institute (NIRI)** (United Kingdom)

09.15 &gt; 09.35

**CHARACTERISTICS AND PERFORMANCE OF MELTBLOWN NONWOVENS IN VARIOUS CONDITIONS, AND THEIR MEASURED IMPACT ON FILTRATION EFFICIENCY OF FACE MASKS**

- Introduction
- Characteristics of disposable facemasks
- Performance of surgical facemasks
- Study on surgical facemasks
- Conclusions and prospects

**Dr Philippe Vroman**, Associate Professor, **ENSAIT-GEMTEX Laboratory** (France)

09.40 &gt; 10.10

**PANEL DISCUSSION: THE FUTURE OF MELTBLOWN****Panelists:**

- Johan Berlin, Investkonsult (Sweden)
- Daniel Krumme, Innovatec (Germany)
- Loïc Messé, MELTBLO France (France)
- Dr Philippe Vroman, ENSAIT-GEMTEX Laboratory (France)
- Dr Ross Ward, Nonwovens Innovation & Research Institute (NIRI) (UK)

10.15 &gt; 10.35

**NEW SOLUTION FOR SILENT FLOOR BOARD WITH AIR THROUGH BONDED NONWOVEN TECHNOLOGY**

- Increasing sound absorption coefficient
- Reducing sound transmission coefficient
- Improving the insulation performance of the parquet to the nonwoven mattress on its under surface
- Bringing the surfaces obtained with ATB nonwoven to the insulation sector
- Developing material for reduced the noise inside the flats

**Selahattin Onur**, R&D Manager, **Merkas Tekstil** (Turkey)

10.40 &gt; 11.00



### SUSTAINABLE CONTRIBUTION TO 100% RECYCLABLE NONWOVENS

- UltraBond staple fibre allows an innovative way of thermal bonding that eliminates the need for latex or other chemical binders in nonwovens, making nonwovens fully recyclable
- Applicable for all nonwoven applications to optimize mechanical performances while remaining 100% recyclable
- Investment in dedicated pilot line in order to accelerate the development of innovative and sustainable solutions for a rapidly changing global market

**Bart Desmyter**, Research & Engineering Manager, **Beaulieu Fibres International** (Belgium)

11.05 &gt; 11.25



### PATTERNING COATINGS AND ADHESIVES ONTO NONWOVENS

- What Powerdrop is
- What problems it solves
- Patterning coatings and adhesives onto nonwovens at speed
- How Archipelago delivers Powerdrop machines to our customers

**Guy Newcombe**, CEO, **Archipelago Technology** (United Kingdom)

11.30 &gt; 11.50



### NEW POLYURETHANE DISPERSIONS FOR THE MANUFACTURING OF MEDICAL NONWOVENS

Covestro developed a new range of polyurethane dispersions which achieve specific advantages in the manufacturing of nonwovens such as

- Extra low linting
- High breathability
- Excellent moisture management,
- High elasticity
- Good compatibility to disinfectants

**Dr. Marc-Stephan Weiser**, Global Head of Business Development Medical, **Covestro Deutschland** (Germany)

11.55 &gt; 12.15



### IMPROVE YOUR SUSTAINABILITY UTILIZING FILM SAVING PACKAGING OF NONWOVEN ROLLS

- How to improve both the sustainability and packaging quality and most preferred at a lower cost?
- Pains in packaging of nonwoven rolls today
- Alternative to conventional packaging solutions
- Ensure the quality of roll packaging
- Reductions in film consumption
- Support the UN Sustainable Development Goals

**Dipl. Henrik Raunkjær**, CEO, **Tentoma** (Denmark)

12.20 &gt; 12.40



### RESPIRATORY FILTER TESTING DIRECTLY IN THE PRODUCTION LINE

- Standards such as 42 CFR 84, EN 143/149, and GB 2626 specify quality requirements and define key parameters for testing
- The highest efficiency respirators are made on automated production lines – how to assure that each filter meets the high efficiency needed?
- Design of an in-line tester with good comparison to a lab tester used for certification
- Critical parameters evaluated are testing speed and comparison of data

**Jürgen Spielvogel**, Senior Sales Specialist, **TSI** (Germany)

12.40 &gt; 13.40

### PRODUCT PRESENTATIONS / NETWORKING/ DEDICATED COMPANY MEETINGS

12.40 &gt; 13.10

#### Product Presentation & live Q&A – SABIC

13.10 &gt; 13.40

#### Product Presentation & live Q&A - Inspection of Nonwovens with Dr. Schenk EasyInspect - Your Quality Requirements Take Priority

13.40 &gt; 14.00



### NONWOVEN REQUIREMENTS FOR CONSTRUCTION MEMBRANES

- What are construction membranes
- What are the requirements for nonwovens (mostly PP and PET spunbond)
- What are the new construction membrane challenges for the future (sustainable)

**Pierrick Girard**, Business Line Manager – Construction Membranes, **Walki** (France)

14.05 &gt; 14.25



### DURABLE NONWOVENS FOR BUILDING INTERIORS

- Where durable nonwovens are used in building interiors
- Primary functions of durable nonwovens in such products
- Product development that enables use of sustainable material

**Souvik Nandi**, Director of Technology, Engineered Products, **Johns Manville** (USA)

14.30 &gt; 14.50



### THREATS AND OPPORTUNITIES FOR AUTOMOTIVE NONWOVENS

This presentation will chart the developments that have led to the growth of nonwovens in vehicles and the threats and opportunities going forward

**Adrian Wilson**, Consulting Editor, **Sustainable Nonwovens** (United Kingdom)

14.55 &gt; 15.10



### ELECTRET FIBER NONWOVENS: EXPERIMENTAL AND NUMERICAL INVESTIGATION OF SUBMICRON AEROSOL DEPOSITION

- Development of a simulation method for calculating particle deposition in electret fiber nonwovens
- Evaluation of electret fiber charge properties
- Investigation of initial and loading-dependent particle deposition in electret fiber nonwovens
- Experimental and simulation challenges in the case of electret submicrofibers

**Maximilian Friedrich Kerner**, Scientific Assistant Researcher,  
**Institute of Particle Process Engineering, Technische Universität Kaiserslautern**  
(Germany)

15.15 &gt; 15.30

**MODELLING OF NONWOVEN AIR FILTER USING BOX-BEHNKEN DESIGN**

- Manufacturing of nonwoven air filter using box-behnken design
- Analysis of design applying response surface method (rsm)
- Optimization of model for thickness property of nonwoven air filter

**Atul Jagannath Dhavale**, Assistant Professor & Ph.D Research Student, **DKTE Textile & Engineering Institute** (India)

15.35 &gt; 15.50

**SUPERHYDROPHOBIC SELF-SIMILAR NONWOVEN-TITANATE NANOSTRUCTURED MATERIALS WITH ASYMMETRIC WETTABILITY**

- Discovery of a new library of self-similar, doubly-re-entrant, porous network of superhydrophobic materials with graded wettability
- Endowing 'Lotus effect' on self-similar nonwoven-titanate nanostructured materials using the facile, scalable, and inexpensive spray-coating technique
- Underwater behavior of single-side coated superhydrophobic nonwoven material with asymmetric wettability
- Impalement dynamics of water in three dimensions by state-of-the-art laser scanning confocal microscopy

**Sumit Sharma**, PhD Student, **Indian Institute of Technology Delhi** (India)

15.55 &gt; 16.10

**LIVE Q&A**

16.15 &gt; 17.15

**PRODUCT PRESENTATIONS / NETWORKING/ DEDICATED COMPANY MEETINGS**

16.15 &gt; 16.45

**Product Presentation & live Q&A: Investkonsult Sweden**

**Is there a future for second-hand nonwoven equipment and what does a consultant do?**

16.45 &gt; 17.15

**Product Presentation & live Q&A: Nonwovens Industry Magazine - INDEX™2020 Opportunities**

17.15 &gt; 17.30

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