INTERNATIONAL NONWOVENS SYMPOSIUM

PROGRAMME

Wednesday 8th June 2022

09.00 > 17.30 Registrations desk open at the Lyon Marriott Hotel
Please wear your badge at all times for easier networking

09.00 > 09.30 WELCOME COFFEE & OPENING OF THE TABLETOP AREA

09.30 > 09.40 OPENING AND WELCOME

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

09.40 > 10.20 **THE ROLE OF BIOPLASTICS IN THE CIRCULAR BIOECONOMY. CHALLENGES AND OPPORTUNITIES OF INNOVATIVE MATERIALS**

- Market of bioplastics today and future outlook
- Type of of bioplastics and their applications
- Certifications and sustainability profile
- How bioplastics contribute to circular bio economy.

Mariagiovanna Vetere, Vice-Chairperson, **European Bioplastics** (Germany)

SESSION 1 SUSTAINABILITY

MODERATOR
Monique Buch, VP Global Nonwovens Business, **Lenzing** (Austria)

10.20 > 10.45 **ECOCARE – SUSTAINABLE DESIGN FOR ABSORBENT HYGIENE PRODUCTS**

- How to enhance the environmental profile of AHP with intelligent design
- EcoCare and the EU Commission's LIFE program
- Results of Technical, Consumer and Environmental assessments
- EcoCare in sustainability communication

Stefanie Glathe, Scientific Communications Europe, **Procter & Gamble** (Germany)

10.45 > 11.15 COFFEE BREAK & NETWORKING IN THE TABLETOP AREA

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11.15 > 11.40

SUSTAINABLE INNOVATION: PERFORMANCE ENHANCED HEMP AND LINEN FIBRES FOR THE GLOBAL NONWOVEN INDUSTRY

- Performance enhanced; 100% natural fibres designed to meet the exacting standards of the nonwoven industry.
- Beyond sustainability; moisture management, haptic qualities, and strength.
- Bast Fibre supply chain and fibre validation through pilot trials and commercial production runs.
- Bast Fibres suitability for a range of nonwoven applications – from industrial to personal care.

Jason Finnis, Chief Innovation Officer, Executive VP, **Bast Fibre Technologies**

11.40 > 12.05

RECYCLING OF PP, PET OR PLA STAND-BY-FILAMENTS OBTAINED FROM SPUNBOND PROCESSING

- Continuous removal of PP, PET or PLA filaments from stand-by-process.
- Preparation of filaments (e.g., by crushing, agglomeration or regranulation).
- Refeeding of recycled filaments (crushed and repalletized) into the spunbond process .
- Up to 15% crushed or repalletized filaments can be added to extrusion in mono or bi-component processing.

Ralf Taubner, Scientific officer - Nonwovens , **STFI** (Germany)

12.05 > 12.30

ENZYMATIC DEGRADATION OF PET (POLYESTER) FOR INFINITE RECYCLING

- The presentation covers Carbios C-ZYME™ technology to make circular PET packaging and polyester textile and non-woven
- Using a biological process to degrade PET into its two constituting monomers, and infinitely make from PET waste a polymer resin with virgin-like properties.
- The presentation updates Carbios project development, with market leaders and the construction of a first reference unit, with a processing capacity estimated at ca. 50,000 tons of wastes per year by 2025.

Bruno Langlois, Business Development & Partnerships Director, **Carbios** (France)

12.30 > 12.55

ACCELERATING SUSTAINABLE INNOVATION IN FIBER & NONWOVEN WITH BIOPBS™ - A BIO-BASED & COMPOSTABLE BIOPOLYMER

- Introduction to BioPBS: bio-based and compostable biopolymer
- BioPBS in fiber and nonwoven application
- BioPBS development in several processing techniques
- BioPBS in circular economy

Thanwa Papaiwong, Marketing Division Manager, **PTT MCC Biochem Company** (Thailand)

12.55 > 14.00

STANDING LUNCH & NETWORKING IN THE TABLETOP AREA

SESSION 2 RAW MATERIAL

MODERATOR

Johan Berlin, Managing Director, **Investkonsult** (Sweden)

14.00 > 14.25

ANTIMICROBIAL/ANTIVIRAL POLYMERS TO PREVENT DISEASE TRANSMISSION THROUGH FOMITES: A COVID-19 CONSEQUENCE

- Why antimicrobial materials can help in reducing disease transmission through fomites.
- Overview of main antimicrobial materials, mode of action and antimicrobial tests.
- Current work performed within SABIC to develop antimicrobial materials that can be applied for PP fiber spinning.
- SABIC developed a strong expertise in antimicrobial materials and works towards developing solutions suited for different industries.

Jérôme Vachon, Staff Scientist, Material Science, **SABIC** (The Netherlands)

14.25 > 14.50

NEW SUSTAINABLE FAST DRYING LATEX BINDER FOR NONWOVENS

- Introduction of a low emission, fast drying latex binder system with revolutionary novel cross linking system
- Cross linking without formaldehyde emissions
- Reduced curing temperatures, reduced scope 1 and scope 2 emissions
- Easy to use 1 k product solution - withdraw of external cross linker resins from customer formulations

Sören Butz, Global Technical Manager Textiles & Fibre Bonding , **Synthomer** (Germany)

14.50 > 15.15

DESIGN OF AN INNOVATIVE FIBRE WITH SUSTAINABLE IMPRINT

- The developed product is an innovative trilobal-core/uniform-sheath PP/PE bicomponent staple fibre, designed with an unique trilobal cross-section shape, that combines the key benefits of the standard mono-trilobal and bico-round fibres.
- The combination of the unique fibre shape and its production formulation and settings, allows the production of nonwovens with significant improvements on bulkiness, opacity and liquid management performances.
- The noticeable added value on the use of the developed fibre for nonwovens production production (ie. raw materials savings, basis weight reduction, very good recyclability due to the used polyolefin polymers, etc..) have been confirmed from real market cases.
- The overall Sustainability benefits derived from the use of the developed new staple fibres for the nonwovens production have been demonstrated via LCA analysis with the calculation of the CO2-eq reduction.

Jerico Biagiotti, Product Development Manager Hygiene, **Beaulieu International Group** (Italy)

15.15 > 15.50

COFFEE BREAK & NETWORKING IN THE TABLETOP AREA

15.50 > 16.15

NEXT GENERATION OF POLYETHYLENE FIBER GRADES RESINS IN HEALTH & HYGIENE NONWOVEN

- In this presentation, we will review how Dow's new generation ASPUNTM AT fiber grade further improve fiber spinnability and potentially reduce waste generation
- Moreover, we will discuss how ASPUNTM R, a fiber resin produced using renewable raw materials, can help sparing our valuable resources while reducing the carbon footprint

Abby Turner, Global Marketing Director, Health & Hygiene, **Dow** (Switzerland)

Natacha Bitinis, EMEA Application Technology Leade, Health & Hygiene, **Dow** (Spain)

16.15 > 16.40

BAST FIBERS: GROWING OPPORTUNITIES

- Ecofriendly fibers, such as hemp and flax, have been used for centuries – hemp more recently for technical fibers and flax for fine linen products.
- Technical fibers are mostly found in nonwoven products like building insulation materials, geotextiles and automotive parts.
- Clothing brands are now pushing their suppliers to blend hemp with cotton to reduce the environmental impact of growing cotton.
- The hemp plant does not require water or pesticides in most growing areas and also yields valuable by products (seeds for oil, hurd for hempcrete, animal bedding…)

Thierry Masi, Area Sales Manager, **Andritz** (France)

16.40 > 17.05

NONWOVENS FROM POLYHYDROXYALKANOATES - MELTSPINNING PROCESS & PRODUCT DEVELOPMENT

- Review of the current progress of PHAs in fibre-based applications.
- Introducing the benefits, limitations and barriers to entry to nonwoven markets.
- Emerging PHA polymer technologies and opportunities for nonwoven products made from PHA polymers will be detailed.

Ross Ward, Chief Commercial Officer, **NIRI - Nonwovens Innovation** (United Kingdom)

17.05 > 17.30

BIOMASS AS AN ECO-FRIENDLY RAW MATERIAL FOR NONWOVENS

- CETI acting in disruptive innovation for natural fibres, biobased and recycled material for the textile and nonwovens industries.
- French partnership building a new industry for MMCFs (man-made cellulosic fibres).
- Role of CETI.
- New process developed with local resources with low emission and low impact on environment.
- Needs and use of these new created fibres for a near future.

Pascal Denizart, CEO, **CETI** - Centre Européen des Textiles Innovants (France)

Mathilde LEROY, R&D Engineer & Polymer Business Developer , **CETI** - Centre Européen des Textiles Innovants (France)

19.00 > 21.30

THE EDANA COCKTAIL : Les Bateaux Lyonnais

The ideal opportunity for relaxed networking while enjoying a boat cruise to discover Lyon

Please wear your badge at all times for easier networking

18.30: Meet at the lobby of the Lyon Marriott Hotel
18.40: Boat departs
22.00: Boat returns to the Lyon Marriott Hotel

Business Casual Dress

Cocktail evening sponsored by :

INTERNATIONAL NONWOVENS SYMPOSIUM

PROGRAMME

Thursday 9th June 2022

08.30 > 15.00 Registrations desk open at the Lyon Marriott Hotel
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08.30 > 09.00 WELCOME COFFEE & OPENING OF THE TABLETOP AREA

09.00 > 09.40

AIMING FOR A BETTER FUTURE – HOW CONSUMERS ARE SHAPING THE FUTURE

- The future of sustainability – how consumers behavioral changes will influence climate policies and sustainability
- How to create and maintain trust in the future consumer landscape
- How will health be a part of everyday life – new healthcare solutions and principles

Carsten Beck, Director of Research & Futurist**, Copenhagen Institute for Futures Studies - CIFS** (Denmark)

SESSION 3 NONWOVENS FOR A BETTER WORLD

MODERATOR

Pierre Croutelle, Business Developer, **Spoolex** (France)

09.40 > 10.05

NONWOVENS FOR BATTERY AND FUEL CELL APPLICATIONS - HIGH PERFORMANCE MATERIALS (HPM) BASED MELTBLOWN PROCESS

- Processing HPM-materials like PPS or PEEK via meltblown process.
- Use as support system for membranes and fluorine-free alternative.
- Reducing pore size by creating finest fiber webs (fiber diameter <1 µm @PPS, <2 µm @PEEK).
- Comparable web homogeneity to filter paper (cv < 15% @ 0,78cm²).

Ingo Windschiegl, Team Leader Nonwovens, **DITF** (Germany)

10.05 > 10.30

"OIL-SENSITIVE" SUPER-ABSORBENT POLYMER FOR THE NONWOVENS INDUSTRY

- World's only "engineered" SAP for oils, fuels and solvents (organic liquids) and unaffected by water– Imbiber Beads®
- Complete "capture & containment" of organic liquids eliminates liquid phase.
- Innovative entrainment of oil-sensitive SAP into nonwoven fabric.
- Significant development in water filtration and spill response applications.

John Brinkman, President, **Imbibitive Technologies (IMBTEC)** (Canada/United States)

10.30 > 11.00 COFFEE BREAK & NETWORKING IN THE TABLETOP AREA

11.00 > 11.25

INNOVATIVE FILTRATION SYSTEMS MADE OF NOVEL ANTIBACTERIAL NONWOVEN MATERIALS

- Meltspun and wetspun filament with added antimicrobial additives.
- Additives will create reactive oxygen species when illuminated with light & can kill bacteria and other microorganisms and prevent them from reproducing.
- From antibacterial filament staple fibres and nonwoven materials for air and liquid filtration systems were created (in cooperation with industry partners).
- Especially relevant in times of a global pandemic, usage of novel filter materials will prevent germ reproduction, improve permeability to air, and increase service life.

Anne Hennig, Scientific Staff, **Institut für Textiltechnik of RWTH Aachen University** (Germany)

11.25 > 11.50

PREVENTION OF BIOFOULING WITH POSITIVELY POLAR (C-POLAR) AIR FILTER WITH ULTRAHIGH EFFICIENCY IN INACTIVATION OF MICROBIALS

- An emerging filter technology by the use of positively polar (C-Polar) coating on filter can enhance the air filtration processes to inactivate bacteria and viruses (including SARS-CoV-2).
- For the collection efficiency, with face velocities at 100 ft min-1 and 492 ft min-1, C-Polar coated filter showed an enhanced filter figure of merit for particle sizes between 10 nm and 10 µm than the baseline filter, suggesting an improved collection efficiency while having a lesser effect on the pressure drop.
- Under the testing conditions of European Standard EN ISO 20742: 2013 Determination of antibacterial activity of textile products, C-Polar coated filter demonstrated a complete (4.6 to 6.9 log) removal and significant inactivation of pathogenic bacteria.

Stan Kolar, Managing Director, Europe, Polarität, **Healthy Apparel** (United States)

11.50 > 12.15

SPONSORED PRODUCT PRESENTATIONS

- **Automatic turret unwinder: The key solution**
  Georges Forand, Head of Sales, **Mondon - Winding & Converting Machines** (France)

- **Spoolex presentation (tbc)**

12.15 > 13.45 STANDING LUNCH & NETWORKING IN THE TABLETOP AREA

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SESSION 4: MACHINERY, PROCESS & PRODUCT DEVELOPMENT

MODERATOR

Dany Michiels, Group R&D and Innovation Director, **TWE** (Belgium)

13.45 > 14.10

HOW TO UTILIZE HIGH-PRECISION ONLINE MEASUREMENT AND CONTROL TECHNOLOGIES DEVELOPED FOR THE PAPER INDUSTRY IN WET-LAID & SPUN-LAID PROCESSES

- Introduction of High-precision online measurement technology such as formation, caliper, binders, synthetic fibers
- Benefits of the measurement technology
- Results from the mill installation

Mikko Talonen, Automation System Business Line Manager, **Valmet** (Finland)

14.10 > 14.35

HYDROCHARGING EQUIPMENT FOR THE ECONOMICAL PRODUCTION OF SINGE-PLY MELTBLOWN FILTER MEDIA

- Meltblown technology and fine fiber filter media production
- Enhancing filter efficiency: comparison of different charging technologies
- The new charging unit – how to implement and operate
- Advantages of hydrocharging by hycuTEC

Ingo Mahlmann, Vice President Sales & Marketing, **Oerlikon Nonwoven** (Germany)

14.35> 15.00

USING OPTICAL SURFACE INSPECTION SYSTEMS FOR BASIS WEIGHT MEASUREMENTS

- Gauging nonwovens using a defect inspection system returns more detailed data, requires less space, reduces investment, and requires no additional safety efforts
- Surface inspection systems provide 100% surface coverage – ideal for basis weight measurement
- Basis weight is a key property of nonwovens
- A well-designed cooling system is crucial for consistent light intensity

Timo Dörr, Sales Manager, **Dr. Schenk** (Germany)

15.00 > 15.25

ELASTIC MELTBLOWN NONWOVEN WITH SHAPE MEMORY EFFECT

- Elastic meltblown nonwoven made of thermoplastic Polyurethane
- The nonwoven can be stabilized temporarily in another shape by means of thermo-mechanical treatment. The original, permanent shape remains stored in the material
- Switching temperature of 40-55 °C for structural change
- Elongation of up to 1000%. Tensile strength tunable by temperature

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

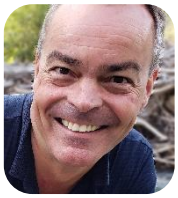
15.25 > 16.00 Coffee Break & Networking in the Tabletop area

16.00 > 16.25

MELTBLOWN FIBRES CONSTITUTING SMXS NONWOVEN FROM 100% RECLAIMED SPUNMELT NONWOVEN VIA IN-LINE METHOD

Kinyas Aydin, Nonwoven R&D Executive, **Hayat** (Turkey)

16.25 > 16.50



IN-LINE CLEANING OF WIRE BELTS FOR NONWOVENS MANUFACTURING PROCESSES

- Contamination on wire belts lead to production losses and sheet quality issues
- In-line cleaning prevents wire belts to get contaminated, but every application requires a customized approach
- In-line wire belt cleaning should be performed continuously, so with a minimum use of utilities
- In-line wire belt cleaning increases production output and increases nonwovens sheet quality

Claus Robberts, CEO**, ProJet** (Netherlands)

16.50 > 17.00 **THANKS & CLOSING**

17.00 > 17.30 GOODBYE COFFEE AT THE TABLETOP AREA

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