



## INDEX™23 - SEMINARS & NONWOVEN TUTORIAL PROGRAMME

Location : INDEX™ Innovation Lab (Hall 3)

### Tuesday 18 April

13:30 – 15:00

#### Medical nonwovens – sustainable recycling options

##### Speakers:



Robert Garcia, Application & Product Development Director | EMEA Hygiene & Healthcare, Nonwovens - Berry Global



David Scheeres, CEO - Tungsten Corporate Solutions and Inventor of the Sterimelt technology

### Wednesday 19 April

10:30 - 12:00

#### Sustainable use of geosynthetics

##### Presentation 1:

##### Sustainable use of geosynthetics in mega projects in civil and geo-environmental engineering

Daniele Cazzuffi, IGS Past President – CESI



Over the last 60 years the use of geosynthetics has increased in civil, geotechnical, and geo-environmental projects around the world for a variety of functions.

In more recent decades their use instead of, or in partial combination with, natural materials – such as gravel, sand, clay, and so forth – emphasized their crucial role in terms of sustainability, circular economy, and in the light of the dramatic climatic change issues.

Examples of the following applications from exceptional projects will be briefly shared:

- Dams and reservoirs
- Tunnels and underground structures
- Reduction of snow/ice melting in glaciers

## Presentation 2:

### Circular economy: opportunities and limitations presented by recycling nonwoven geotextiles

Francesco Fontana, Geosynthetics Consultant - A&B



The environmental impact of geosynthetics must be assessed according to their desired performance, rather than simply their weight. Using recycled polymers to produce nonwoven geotextiles can play an important role in ensuring a circular economy.

Key points to be addressed include:

- The contribution to the performance of the whole project
- The desired durability of the structure in which the geosynthetic is incorporated
- The probability of microplastics being released
- The limits imposed by the current compulsory rules

## Wednesday 19 April

**13:30 – 14:00**

### **Fair and sustainable trade: how does WTO help business at times of crisis**

Bernard Kuiten, Head of External Relations - World Trade Organization





## Wednesday 19 April

14:30 – 16:00

### Textiles and nonwovens, a sustainable future!

This seminar will feature short presentations followed by a panel discussion.

#### Effectiveness of textile fibres recycling

Mark Croes, Consultant Hygiene and Medical - Centexbel



- The mapping of textile recycling activities and technologies
- The economic and environmental aspects of the textile recycling technologies
- Some options to advance textile-to-textile recycling

Other confirmed speakers/panelists:

- Alexandre Butte, General Manager and Benoît Rombaut, Technical Director - Andritz Laroche
- Heidi van den Hul, Business Development Textiles and Nonwovens – fabriCreation



The following topics will be discussed during the panel discussion:

- Which recycling processes are already available for creating nonwovens from textile waste?
- What are the bottlenecks and opportunities?
- Market outlook for post-consumer use for recycled textiles following the extended producer responsibility
- Innovative solutions



## Thursday 20 April

10.30 – 12.00

### Diversity, Equity, & Inclusion in the Nonwovens Industry

The importance of diversity, equity and inclusion in the workplace has been gaining recognition in recent years.

This seminar will look at examples of how players in the nonwovens industry are addressing these challenges to ensure both diversity within their own workplace, as well as within their respective supply chains.

There will be a focus on gender equity, including tackling the gender bias around the role that women can play in manufacturing and the importance of attracting women and girls to careers in STEM.

#### EDANA member companies taking part:

Freudenberg, Johns Manville, Procter & Gamble

13:30 – 14:30

### Nonwovens are essential for the mobility transition

#### Presentation 1:

#### Nonwovens will continue to play an essential role in the expansion of electro mobility, the digital economy, and future energy storage demands

Ian Dowdle, Sales / Operations leadership - Hollingsworth & Vose



The presentation will cover the application of nonwoven technology to enable:

- Safety and Security of e-Mobility
- Data storage demands of the digital infrastructure
- Digital commerce
- Smart grid

#### Presentation 2:

#### Nonwovens in fuel cells: role of 3D architecture of the structure

Siddharth Shukla, PhD Student - Indian Institute of Technology Delhi



- Delving into the integral role of nonwovens as gas diffusion layers (GDLs) in fuel cells
- Unravelling the 3D structure of nonwoven GDLs and its impact on their wettability and compression behaviour
- Applicability of the basic principles of stereology in the quantification of structural heterogeneities of nonwoven GDLs

**Thursday 20 April**

**15:00 – 16:00**

**Nonwovens Tutorial**

This free one-hour nonwovens tutorial is intended for newcomers to the industry, or any interested potential user of nonwovens in one or more of their multiple end-uses.

Marines Lagemaat, Scientific & Technical Affairs Director – EDANA

