

The Nonwovens Institute (NWI) at North Carolina State University and Oerlikon Nonwoven

Cooperation in the field of meltblown laboratory technology

Neumünster, December 4, 2025 – The Nonwoven Institute (NWI) at North Carolina State University and Oerlikon Nonwoven will be collaborating in the field of meltblown laboratory technology in the future. This was announced by Professor Raoul Farer, Executive Deputy Director of the NWI and Professor at the Wilson College of Textiles at North Carolina State University, and Dr. Ingo Mählmann, Sales Director Nonwoven at Oerlikon Neumag, during this year's ITMA Asia and CITME in Singapore.

The first step in the new cooperation is an investment in the hycuTEC hydrocharging system from Oerlikon Nonwoven; the institute will integrate the unit into its existing laboratory configuration. This will enable the NWI to operate a state-of-the-art meltblown hydrocharging laboratory in the future, facilitating the development of new products – primarily, but not exclusively, in the field of air filtration media. The advantage for North American Oerlikon Nonwoven customers and prospects is that they will be able to test hycuTEC technology and carry out their own meltblown product developments in a creative, innovation-oriented environment.

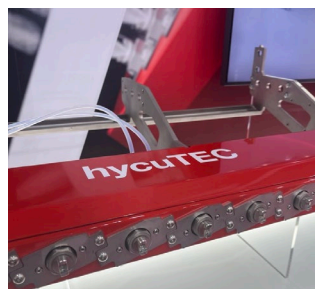
Oerlikon Nonwoven's patented hycuTEC system is a real innovation for the filtration industry. Using a special spray mist of demineralized water, the system enables the economic production of highly efficient electret-media with an impressive filtration efficiency of 99.99% at low pressure-drop. The hycuTEC hydrocharging technology was honored with the Edana Filtrex Innovation Award in 2023.

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Caption:

Sealing the future cooperation: Professor Raoul Farer, The Nonwoven Institute (right), and Dr. Ingo Mählmann, Oerlikon Neumag.



Patented and award-winning: the hycuTEC hydrocharging system.

About Barmag

Under the traditional name Barmag, the Swiss Oerlikon Group has been continuing its chemical fiber business as a subsidiary since 2025. This includes the established product brands Oerlikon Barmag, Oerlikon Neumag and Oerlikon Nonwoven. As a future-oriented company, research and development are focused on energy efficiency and sustainable technologies (e-save).

Barmag is one of the leading suppliers of filament spinning plants for chemical fibers, texturing machines, BCF plants, staple fiber plants and solutions for the production of nonwoven fabrics. Together with its range of polycondensation and extrusion systems and their key components, Barmag thus covers the entire manufacturing process – from monomer to textured yarn – and supports it with customer-oriented engineering services. The product portfolio is rounded off by automation and digitalisation solutions. In addition, Barmag offers high-precision gear metering pumps for the textile industry and other sectors, including the automotive, chemical and paint industries.

The main markets for the Barmag product portfolio are in Asia, particularly China, India, Turkey and the USA. Barmag employs around 2,500 people worldwide and is represented in 120 countries with production, sales and service organisations. In the research and development centres in Remscheid, Neumünster (Germany) and Suzhou (China), highly qualified engineers, technologists and technicians develop innovative and technologically leading products for tomorrow's world.

Oerlikon (SIX: OERL) is a global leader in surface technologies. Headquartered in Pfäffikon, Switzerland, the Group has over 12,000 employees at 199 locations in 38 countries and generated sales of CHF 2.4 billion in 2024.

For further information, please visit: www.barmag.com

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