

# Barrier laminates - The expert meeting

## Agenda day 1 Tuesday, 01.07.2025

0:10h



Karsten Schröder

*Innoform Coaching GmbH*

### Welcome and introduction to the topic

- Begrüßung Innoform
- Begrüßung SKZ
- Ergebnis der Umfrage zur Vermeidungsquote aller Lebensmittelabfälle in Europa aufgrund von Barriereverpackungen im Teilnehmerkreis (s. Anhang SP01b)

0:30h



Dr. Thomas Gröner

*TG PACK SOLUTIONS*

### PPWR and its impact on barrier packaging

- PPWR: Background, overview, timings
- Recyclability requirements
- Recyclate content required

0:30h



Florian Reiter

*Borouge International - Borealis Polyolefine GmbH*

### Monoaxially oriented cast and blown films for barrier films

- How can the barrier of oriented polyolefin films be improved?
- When to use cast PP and when to use blown PE for barrier films?
- Case studies of successful monomaterial barrier extrusion with EVOH

0:30h



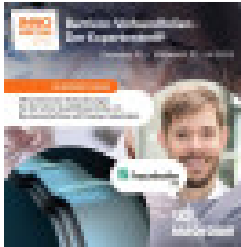
Hendrik Steen

*Windmüller & Hölscher SE & Co. KG*

### MDO retrofit for more efficient barrier film production

- Why monoaxial orientation at all?
- Which machines are suitable?
- Which film structures are suitable?

0:30h



Dr. Benedikt Hauer

*Fraunhofer-Institut für Physikalische Messtechnik IPM*

### Measuring requirements for the inline quality control of barrier layers on polymer substrates

- Measuring principle, implementation and accuracy
- Application example from batch production
- Challenges and solutions in roll-to-roll systems

0:30h



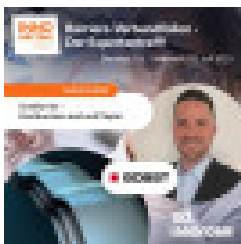
Norbert Runn

*Polytype Converting GmbH*

### Achieving sustainability goals - pioneering process technologies Efficient systems (not only) for the packaging industry

- Achieving sustainability goals - with pioneering process technologies
- Efficient systems (not only) for the packaging industry

0:30h



Marco Schmidt

*Bobst Group Deutschland GmbH*

### OneBarrier - High barrier also on paper

- The OneBarrier concept
- Advantages of combining several barrier layers
- Recyclability and application examples

0:30h



Thomas Lunz

*easy2cool GmbH*

Marissa Schwinn

*traceless materials GmbH*

### Sustainable by Design - Recyclable barrier materials for the challenges of tomorrow

- Aluminium-free paper laminates: Are there safe barrier alternatives and are they recyclable?
- Traceless - a new material with new properties

0:30h



Dr. Phil Rosenow

*Fraunhofer Institut für Verfahrenstechnik und Verpackung IVV*

**Less is more - sustainability, LCA and consumer behaviour**

- Sustainability of packaging: Overpacking and underpacking
- Findings regarding barrier design and life cycle assessment
- Conclusions and examples

0:30h



Andreas Dietrich

*Weber Food Technology SE&Co.KG*

**Use of bacterial cultures as a natural oxygen absorber for sausage products packaged in mono-PET**

- Oxygen in the packaging, causes and consequences for sausage products
- The gas barrier of mono-PET is not sufficient, but what are the consequences?
- Application and benefits of bio-based protective cultures for packaged sausage products

# Barrier laminates - The expert meeting

## Agenda day 2 Wednesday, 02.07.2025

0:30h



Dr. Ferdinand Somorowsky

*Fraunhofer-Institut für Silicatforschung ISC*

### Fibre-based stand-up pouches with barrier function

- Research results from the InnPressMe project
- Processing and upscaling of the materials involved
- Advantages (figures, data, facts) and comparison with conventional plastic bags

0:30h



Dr. Philipp Okle

*Amtor Flexibles Kreuzlingen AG*

### SiOx coatings for flexible packaging: Performance and sustainability for modern packaging

- PP / PE - SiOx portfolio and applications for high-barrier and sterile products
- Comparison with alternative solutions, such as AlOx
- Overview of recycling studies and life cycle analyses (LCA)

0:30h



Dr. Ulrike Helmstedt

*Leibniz-Institut für Oberflächenmodifizierung e.V.*

### Flexible transparent barrier coatings with UV light

- What possibilities does UV radiation open up in the production of barrier coatings?
- How can I produce ceramic coatings without a vacuum?
- What is behind nanocomposite-based barrier coatings?

0:30h



Christoph Zerwas

*AMETEK GmbH (Business Unit MOCON)*

### New possibilities for barrier measurement of flexible packaging

- Challenges in the barrier measurement of new packaging materials
- Time savings and error reduction through clamping instead of glueing

0:30h



Alexander Tovar  
*INFICON GmbH*

#### Leak test as a supplement to permeation measurements

- You can only measure permeation if everything is tight
- Leak testing in the laboratory and in production
- Profitability and success stories

0:30h

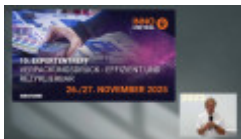


Dr. Kristina Eißenberger  
*Hochschule Albstadt-Sigmaringen*

#### Metallised, recyclable multilayer films with recyclable protein-based high-performance barrier

- Metallisation of the protein coating increases the oxygen barrier of recyclable multilayer packaging
- Separable structures enable material recycling
- High-quality recyclate in closed loops

0:10h



Karsten Schröder  
*Innoform Coaching GmbH*

#### Summary & questions from online participants

- The highlights in 10 minutes