

# Surface Treatment of Polymer Films

Challenges of the Processes and Products of the Future

Joint Technical Conference  
of Fraunhofer IVV and  
the European Metallizers  
Association EMA on the  
International Converting  
Exhibition ICE 2005



Chairmen  
Dr. Klaus Noller,  
Prof. Dr. Horst-Christian Langowski,  
Fraunhofer IVV, Freising, D

12.30  
Registration, coffee

13.00  
Welcome  
Prof. Dr. Horst-Christian Langowski,  
Fraunhofer IVV, Freising, D

## Future Application Fields

13.15  
Future applications for flexible  
materials: Food packaging,  
pharmaceuticals, decorative  
and technical applications  
Simon King,  
PCI Films Consulting, Banbury, UK

13.40  
Technical trends in the label  
industry: Decorative layers by  
printing and vacuum coating  
techniques, functional ele-  
ments  
Dr. Martin Bergsmann,  
HUECK FOLIEN Ges.m.b.H.,  
Baumgartenberg, A

14.05  
The future of flexible polymeric  
devices: Displays, solar modules  
and low-cost electronic devices  
Dr. Jens Hauch,  
Konarka Technologies GmbH,  
Erlangen, D

## Substrate Films, Vacuum Coating and Monitoring

14.30  
Polyester (PET, PEN) films for  
present and future applications:  
Food packaging, displays, solar  
modules  
Richard L. Davis,  
Mitsubishi PET Film, Wiesbaden, D

14.55  
Coffee break with snacks

15.25  
Developments in vacuum  
coating techniques on flexible  
web: Barrier coatings, con-  
ductive and active layers  
Gerhard Steiniger,  
Applied Films, Alzenau, D

15.50  
From real-time to in-line optical  
monitoring of polymeric sub-  
strates and the deposition  
of transparent barrier layers  
Prof. Stergios Logothetidis,  
University of Thessaloniki, GR

16.15  
Barrier mechanisms of vacuum  
coated polymers: Where are  
the limits for downgauging  
of substrates and for barrier  
properties of coated films?  
Prof. Dr. Horst-Christian Langowski,  
Fraunhofer IVV, Freising, D

16.40  
Innovations in transparent  
barrier systems: A converter's  
view  
Wolfgang Lohwasser,  
Alcan Packaging, Neuhausen, CH

## Special Product Developments

17.05  
Vacuum coating of polymer  
films for display applications  
Dr. Nicolas Schiller,  
Fraunhofer FEP, Dresden, D

17.30  
Coating techniques for active  
packaging: Oxygen absorbers,  
indicators, antimicrobial films  
Thomas Wanner,  
Fraunhofer IVV, Freising, D

17.55  
Outlook and discussion  
Summary and discussion,  
moderated by the chairmen



For discussion 5 min are  
planned after each presentation.