

NOVEMBER 27, 2014 - WORKSHOP
„ Ultra-Barrier Manufacturing and Testing“
Fraunhofer-Institut für Werkstoff- und Strahltechnik IWS
Winterbergstraße 28, 01277 Dresden

This workshop is jointly organized by Fraunhofer IWS, Fraunhofer FEP and Organic Electronics Saxony (OES).

November 27th, 2014

08:00 Registration

Welcome and opening

09:00 Prof. Dr. Andreas Leson
Fraunhofer IWS Dresden

09:10 Markets for flexible encapsulation layers
Khasha Ghaffarzadeh
IDTechEx

Session I: Ultra-barrier manufacturing

Chair: Dr. Wulf Grählert, Fraunhofer IWS

09:35 ALD for Ultra-barriers
Mikko Söderlund
Beneq Oy

10:00 Borosilicate glass thin films as hermetic moisture barriers
Ulli Hansen
MSG Lithoglas GmbH

10:25 *Coffee break and exhibition*

11:00 Activities of OIKE in the field of the development of ultra-high barrier materials and activities of OIKE and Japan regarding standardization of ultra-barrier testing
Singo Nagai
Kansai-OIKE industrial Co.,Ltd., Kyoto,

11:25 Roll-to-roll technology for ultra-high permeation barriers for flexible electronics
John Fahlteich
Fraunhofer FEP Dresden

12:00 *Lunch break and exhibition*

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Session II: Ultra-barrier testing

Chair: Dr. John Fahlteich, Fraunhofer FEP

- 13:00 Ultra-high gas barrier measurements coupled with rapid control procedures
Stéphane Cros
CEA LITEN
- 13:25 Thin-film barrier measurements for the encapsulation of organic electronic devices
based on the electrical Ca-test
Lars Müller-Meskamp
Technische Universität Dresden
- 13:50 *Coffee break and exhibition*
- 14:30 Water vapor transmission rate testing with a coulometric sensor
Andreas Roos
Paul Lippke Handels-GmbH, Neuwied
- 14:55 Reliable measurements of the water vapor transmission rate down to the $10^{-6} \text{ g m}^{-2} \text{ d}^{-1}$
level based on a diode laser sensor
Harald Beese
Fraunhofer IWS Dresden
- 15:20 Panel discussion & concluding remarks
All speakers
- 15:45 – 16:45 *Tour through the labs of the Fraunhofer Institute for Electron Beam-, Plasma
Technology and COMEDD (Pilot-Scale Vacuum Roll-Coaters and Film Handling and
Inspection System)
(optional 1h)*

With my registration I agree with the potential publication of photographs taken during the event and with the electronic storage of my address (incl. the use address for future invitations).