

2nd Polymer Apps in PV

12-13 March 2012 / Leipzig, Germany
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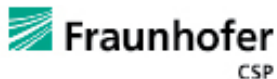
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DAY 1 - 12 March 2012, Monday

08:00 Registration & Coffee

09:00 Chairman's Welcome & Introduction

09:10 **Leveraging Cost & Quality: Module Manufacturer's Perspective**



Material Substitution

09:40 **Innovative Materials Solve Challenges for Building Integrated Photovoltaics**

- Edge protection and encapsulation
- Light weight frame with integrated functionality

*Dr. Bernd Rothe, Research Scientist
Bayer MaterialScience AG*

10:15 **Market & Innovation of Polymeric Substitutes for PV Modules**

*Karlheinz Brust, Technical Director
KREMPEL GmbH Solar Materials*

10:50 Discussion followed by Refreshment Break

11:20 **Traceability of Polymeric Components of PV Modules**

- Counterfeiting and piracy of products / BOM (bill of materials)
- Experiences in the field
- Brand risk management
- Analytical methods to assign products fingerprints

*Dr. Nicolas Bogdanski,
Research and Development
TUV Rheinland*

Encapsulants

11:55 **Polymeric PV Encapsulation Materials - State of Technology and Perspectives from a Polymer Engineering and Science Viewpoint**

*Prof. Reinhold W. Lang, Head of Institute of Polymeric Materials & Testing
University of Linz*

12:30 **Influence of Mechanical Properties of Encapsulants on the Stresses in PV Modules**

- Mechanical parameters of encapsulants for Finite - Element - simulation
- Effect of geometrical and mechanical parameters of encapsulants on the mechanical stresses and the reliability of PV modules
- Comparison of stresses for different module designs

*Dr.-Ing. Matthias Ebert, Group Leader (Module Reliability) & Team Leader (Module Characterization)
Fraunhofer - Center for Silicon Photovoltaics CSP*

13:05 Discussion followed by Networking Lunch

14:00 Chairman's Remarks

Backsheet

14:05 **Biobased PV Backsheet**

- Advantages over conventional backsheets
- Certifications
- Materials, manufacturing and testing

*Dr. Stan Levy, Chief Technology Officer
BioSolar Inc.*

14:40 **Current Trends in Backsheet Evolution**

- Properties of backsheets and their influence on the module performance

*Marina Temchenko, R&D Manager
Madico Inc.*

15:15 **High Speed Automated Production of Durable PV Modules: The Contribution of Cost Effective Adhesive Integrated and Weldable Backsheets**

*Ir. Francois Rummens, Quality Research & Technical Support Manager
Renolit Belgium NV*

15:50 Discussion followed by Refreshment Break

Extrusion Technology

16:20 **Extrusion Dies to Develop Cost-Competitive Solar Panels**

*Andrei Stapinoiu, Sales Director
Extrusion Dies Industries LLC*

16:55 **High Performance Extrusion Line for Production of EVA Flat Film/Encapsulants**

*Senior Representative
KraussMaffei Berstorff GmbH*

17:30 Discussion followed by End of Day 1

DAY 2 - 13 March 2012, Tuesday

09:00 Chairman's Remark

Organic PV

09:10 **Organic Photovoltaics - Status and Perspectives**

- Principles of Organic Solar Cells
- Optimizing Efficiency of Organics Solar Cells
- Lifetime
- Low-Cost Manufacturing Techniques

*Prof. Dr. Karl Leo, Director
Institute for Applied Photophysics (IAPP)*

09:45 **Organic Solar Cells for Building-integrated Applications**

- Why organic PV?
- Technology & challenges
- Product design (BIPV)

*Dr. Markus Scharber,
Director of Innovation Management
Konarka Austria*

EVA Market & Tech

10:20 **EVA Cross Linking During Manufacturing of Solar Modules**

*Dr. Stefan-H Schulze,
Team Leader Polymer Materials
Fraunhofer - Center for Silicon Photovoltaics CSP*

10:55 Discussion followed by Refreshment Break

11:25 **EVA Market Update: Trends, Drivers, Capacities, Supply & Manufacturing Costs of Key Polymer Processes**

*David Anderson, Business Director (Global Polyolefin Solutions)
Townsend Solutions*

Adhesives & Plastics

12:00 **Characterization of Conductive Adhesives for Solar Cell Interconnection**

- Determination of process parameters
- Evaluation of electrical and mechanical properties
- Principal mechanical behaviour of conductive adhesive interconnects

*Matthias Pander, Team Module Characterization
Fraunhofer - Center for Silicon Photovoltaics CSP*

12:35 **Engineering Plastics for Junction Box and Other PV Components for Polymer Apps in PV**

- Resistance toward weather and temperature
- Meeting technical, processing and regulatory requirements

*Walter Kern, Application Development & Technical Support Mgr (Fire Resistance Market)
Rhodia Polyamide*

13:10 Final Discussion followed by Closing Lunch

14:00 End of Conference