

Social Events**Sunday, June 13, 2010, 6:30 - 8:30 p.m.**

Welcome reception, conference center Stadthalle

Monday, June 14, 2010, 7:30 - 10:30 p.m.

Fraunhofer IST's birthday party sponsored by Advanced Energy Industries GmbH, Beneq, EControl-Glas GmbH & Co. KG, FHR Anlagenbau GmbH

Tuesday, June 15, 2010, 6:30 - 8:30 p.m.

Reception by the Mayor and poster session, conference center Stadthalle

Wednesday, June 16, 2010, 7:00 - 11:00 p.m.

Conference dinner, Waldhaus Oelper

Conference Fees

Registration	before May 15	from May 15
Short courses	220 €	240 €
Full conference	700 €	800 €
Day pass	375 €	400 €
Accompanying persons	175 €	200 €
Students	375 €	425 €

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THE 8TH INTERNATIONAL CONFERENCE ON COATINGS ON GLASS AND PLASTICS

Advanced Coatings for Large-Area
or High-Volume Products

June 13-17, 2010

Conference Center
Stadthalle Braunschweig, Germany
www.iccg.eu

Organized by
International Organizing Committee of ICCG
Fraunhofer Institute for
Surface Engineering and Thin Films IST



Conference and Exhibition

The 8th International Conference on Coatings on Glass and Plastics ICCG and its accompanying technical exhibition will take place in Braunschweig from June 13-17, 2010 and is organized by the Fraunhofer Institute for Surface Engineering and Thin Films IST. With more than 400 participants, 60 lectures, about 130 posters, and more than 35 international exhibitors this leading conference on coatings on glass and plastics provides an excellent platform to discuss the latest trends and their implementation in new technologies and innovative products. A survey of the program with keynote and invited speakers can be found below. For more detailed information please visit www.iccg.eu.

Sunday, June 13, 2010**Short Courses**

- **Carrier Transport and Device Design for Oxide Semiconductors**
Prof. T. Kamiya, Tokyo Institute of Technology [Japan]
- **Roll-to-Roll Atmospheric Pressure Processes**
Dr. H.A.J.M. R. Andriessen, Holst Centre / TNO [The Netherlands]
- **Roll-to-Roll Vacuum Processes**
Dr. D. J. McClure, Acuity Consulting and Training [USA]
- **Solar Cells**
Prof. Dr. G. Willeke, Fraunhofer CSP [Germany]
- **Switchable Coatings**
Prof. Dr. C. G. Granqvist, Uppsala University [Sweden]
- **Photocatalysis**
Prof. Dr. D. Bahnemann, Hannover University [Germany]

Monday, June 14, 2010**Introductory Session - Market and Business in the Field of Coatings on Glass and Plastics**

- **Thin Films in Photovoltaics - Technologies and Perspectives**
Dr. W. Hoffmann, Applied Materials, Inc. [Germany]
- **Constructing the Ephemeral**
J. Carpenter, James Carpenter Design Associates Inc. [USA]
- **Mass Production of Optical Coatings Industry in China**
Prof. Xu Liu, Zhejiang University [China]
- **The Emerging Business of Organic LEDs in the Lighting Market**
Dr. D. Bertram, Philips Technology GmbH [Germany]

Monday, June 14, 2010**Session 1 - Advanced Technologies by Vacuum Deposition**

- **Challenges for Thin Film Technologies in Mass Production for Photovoltaics**
J. Elsner, First Solar Manufacturing GmbH [Germany]
- **Very High Rate Deposition of Various Functional Oxide Films by Reactive Sputtering**
Dr. N. Oka and Prof. Y. Shigesato, Aoyama Gakuin University [Japan]
- **Improving Aluminium Doped Zinc Oxide Films by Minimizing Negative Ion Damage**
Dr. André Anders, Lawrence Berkeley National Laboratory [USA]

Tuesday, June 15, 2010**Session 2 - Atmospheric Pressure Coatings and Processes**

- **Atmospheric Pressure Plasma Vapor Coatings**
Prof. dr. ir. M.C.M. R. van de Sanden, Eindhoven University of Technology [The Netherlands]
- **Design of Wet AR Coatings Using Functional Nanoparticles**
S. Murai and Y. Ishihara, JGC Catalysts & Chemicals Ltd. [Japan]

Session 3 - Displays, Flexible Electronics and Barriers

- **Flexible OLEDs for Lighting**
Dr. A.M.B. T. van Mol, Holst Centre / TNO [The Netherlands]
- **New Perspectives in Pharmaceutical Packaging: Barrier Coatings and Beyond**
Dr. T. Kälber, SCHOTT AG [Germany]

Session 4 - Process Control Methods and Characterization

- **Optical Mapping and Imaging for Quality Control of Thin Films and Surfaces**
Dr. U. Beck, BAM [Germany]
- **Film Structure Modification by Inductively Coupled Plasma Assistance in Conventional and Pulsed Magnetron Sputtering**
Prof. E. Kusano, Kanazawa Institute of Technology [Japan]

Wednesday, June 16, 2010**Session 5 - Thin Film Properties**

- **Ion Beam Sputtering - State of the Art and Industrial Application**
Dr. D. Ristau, Laser Zentrum Hannover e.V. [Germany]
- **Optical Thin Films**
Prof. Dr. N. Kaiser, Fraunhofer IOF [Germany]

Session 6 - Architectural, Automotive and other Applications

- **Minerva – A Project for the Development of an Ultra Resistant Plasma Coating on PC for Automotive Use**
Dr. A. Matthai, AUDI AG [Germany]
- **Rotating Cylindrical Magnetrons: Downscaling for a Better Understanding**
Prof. D. Depla, University Ghent [Belgium]

Panel Discussion - Large Area Thin Films for Energy Efficiency

- **Photovoltaic** V. Löwenstein, Inventux Technologies AG [Germany]
- **Solar Thermal** D. Pavic, BlueTec [Germany]
- **Lighting** Dr. H. Küster, Alanod [Germany]
- **Architectural Glazing** G. Suckel-Bittnar, Interpane Glasgesellschaft GmbH [Germany]

Thursday, June 17, 2010**Session 7 - Solar Applications**

- **Deposition Methods to Manufacture CIS Based PV Modules**
B. Dimmler, Würth Elektronik Research GmbH [Germany]
- **High Efficiency Thin Film Si Solar Cell and Module**
Dr. K. Yamamoto, KANEKA Corp. [Japan]

Company Tours

Two company tours are offered to the participants subsequent to the conference on Thursday afternoon:

- Fraunhofer Institute for Surface Engineering and Thin Films IST in Braunschweig
- GXC Coatings GmbH in Goslar