



## PRESS RELEASE

# International Conference on Coatings on Glass and Plastics ICCG8

### **Broad Conference Program with an Accompanying Technical Exhibition - Covering all Areas of Glass and Plastic Coating Technologies**

Braunschweig, February 11, 2010 – Following the first seven successful ICCG meetings, the 8<sup>th</sup> International Conference on Coatings on Glass and Plastics ICCG will be organized in Braunschweig, Germany. Taking place from June 13-17, 2010, this leading conference in the field of coatings on glass and plastics provides an excellent platform to discuss the latest trends and their implementation in new technologies or products in the field of large-area coatings of glass and plastics. More than 400 participants and more than 30 international exhibitors at the accompanying technical exhibition know: Each of the five conference days offers a wide-ranging variety of interesting presentations on significant topics. Qualified and valuable contacts to decision makers, technicians, suppliers and high potentials are assured.

Each of these topics will be discussed in detail from different points of view and by lecturers with broad professional backgrounds. Prof. Dr. Günter Bräuer, Chairman of the ICCG8 and director of the Fraunhofer Institute for Surface Engineering and Thin Films IST states: "The application of coatings is an area which has become extremely important for large-area or high-volume glass products. Besides glass, plastics are becoming more and more important as substrates for optical and electronic applications. For this reason the conference focuses on the development and application of advanced coatings on both, glass and plastics, using a broad and multidisciplinary approach".

The 8<sup>th</sup> ICCG provides information on the different technologies at a general level for new product designers, but also examines technical aspects, safety measures, and environmental and economic factors.

All details on the ICCG8 are available on [www.iccg.eu](http://www.iccg.eu)

#### **Contact for the Press**

Fraunhofer Institute for  
Surface Engineering and Thin Films IST

#### **Dr. Simone Kondruweit**

Phone: + 49 531 2155-535  
Fax: + 49 531 2155-900  
[simone.kondruweit@ist.fraunhofer.de](mailto:simone.kondruweit@ist.fraunhofer.de)

#### **Elena Droege**

Phone: + 49 531 2155-536  
Fax: + 49 531 2155-900  
[elena.droege@ist.fraunhofer.de](mailto:elena.droege@ist.fraunhofer.de)

Bienroder Weg 54 E  
38108 Braunschweig  
Germany

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## **Preview: Advanced information on selected presentation topics at the ICCG8**

### **CIS or CdTe – which semiconductor material will be superior in the market?**

#### **Deposition methods to manufacture CIS based PV modules**

The PV market has grown substantially with rates of more than 40 percent per year in the past decade. Crystalline silicon is still the dominating material, but thin films are taking over bigger shares. In 2008 already 15 percent of the shipments of PV modules worldwide have been thin films due to their cost advantages at high production volumes. The main materials for thin film PV modules are based on amorphous silicon, combinations thereof and the compound semiconductors CdTe and CIS. But which material and deposition method will finally be superior in cost and quality? At the ICCG8 an overview of the various deposition techniques and their potential regarding cost and quality will be given by Bernhard Dimmler, Director of Research and Development at Würth Solar GmbH & Co KG.

For further scientific information please contact:  
Würth Elektronik Research GmbH, Schwäbisch Hall  
Bernhard Dimmler, Managing Director  
Phone +49 791 946 00 301  
Fax: +49 7940 946 555 109  
bernhard.dimmler@we-online.de  
www.wuerth-solar.de

### **Patterned metallization and adhesive free bonding of polymer foils and glass for a cost-efficient production**

Cost efficient technologies for patterned surface functionalizations or coating are of great interest within the glass and plastic industry. Scientists at the Fraunhofer Institute for Surface Engineering and Thin Films IST successfully demonstrated a roll-to-roll atmospheric pressure plasma process with area-selective surface modification of polymer film surfaces. Surfaces functionalized with this process are suitable for subsequent patterned electroless metallization and galvanic reinforcement for biosensors, solar cells, RFID tags or flexible printed circuits. Due to the additive technology a resource and cost efficient production process is possible. The potential for different application fields will be presented by Dr. Michael Thomas, Head of Atmospheric Pressure Plasma Processes at Fraunhofer IST.

**Contact for the Press**  
Fraunhofer Institute for  
Surface Engineering and Thin Films IST

**Dr. Simone Kondruweit**  
Phone: + 49 531 2155-535  
Fax: + 49 531 2155-900  
simone.kondruweit@ist.fraunhofer.de

**Elena Droege**  
Phone: + 49 531 2155-536  
Fax: + 49 531 2155-900  
elena.droege@ist.fraunhofer.de

Bienroder Weg 54 E  
38108 Braunschweig  
Germany

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For further scientific details please contact:  
Fraunhofer Institute for Surface Engineering and Thin Films IST  
Dr. Michael Thomas  
Bienroder Weg 54 E  
38108 Braunschweig  
Phone +49 531 2155 525  
Fax +49 531 2155 900  
michael.thomas@ist.fraunhofer.de  
www.ist.fraunhofer.de

## **How can photocatalytic activity be analysed quantitatively?**

Photocatalytic coatings are of considerable industrial interest for different applications such as self-cleaning, anti-fouling, anti-fogging and anti-microbial surfaces. Crystalline titanium dioxide is a well known material showing photocatalytic activity under irradiation of UV light or even of visible light.  $\text{TiO}_2$  can be deposited with several deposition processes, e. g magnetron sputtering, thermal evaporation, sol-gel process, lacquer coating, thermal spray coating, CVD. All those technologies are examined by the Fraunhofer Photocatalysis Alliance Photocatalysis. Up to now, only a few methods have been established to measure the photonic efficiency of light-activated semiconductors. In order to compare the performance of the different production technologies and the photocatalytic activity of the coating the Fraunhofer Alliance Photocatalysis develops new methods for a quantitative determination of the photocatalytic activity. The results will be presented by Dr. Michael Vergöhl, Head of the Fraunhofer Photocatalysis Alliance and Head of Optics, Information and Communication at Fraunhofer IST.

For further scientific details please contact:  
Fraunhofer Institute for Surface Engineering and Thin Films IST  
Dr. Michael Vergöhl  
Bienroder Weg 54 E  
38108 Braunschweig  
Phone +49 531 2155 640  
Fax +49 531 2155 900  
michael.vergoehl@ist.fraunhofer.de  
www.ist.fraunhofer.de

**Contact for the Press**  
Fraunhofer Institute for  
Surface Engineering and Thin Films IST

**Dr. Simone Kondruweit**  
Phone: + 49 531 2155-535  
Fax: + 49 531 2155-900  
simone.kondruweit@ist.fraunhofer.de

**Elena Droege**  
Phone: + 49 531 2155-536  
Fax: + 49 531 2155-900  
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Germany