

Company Tours

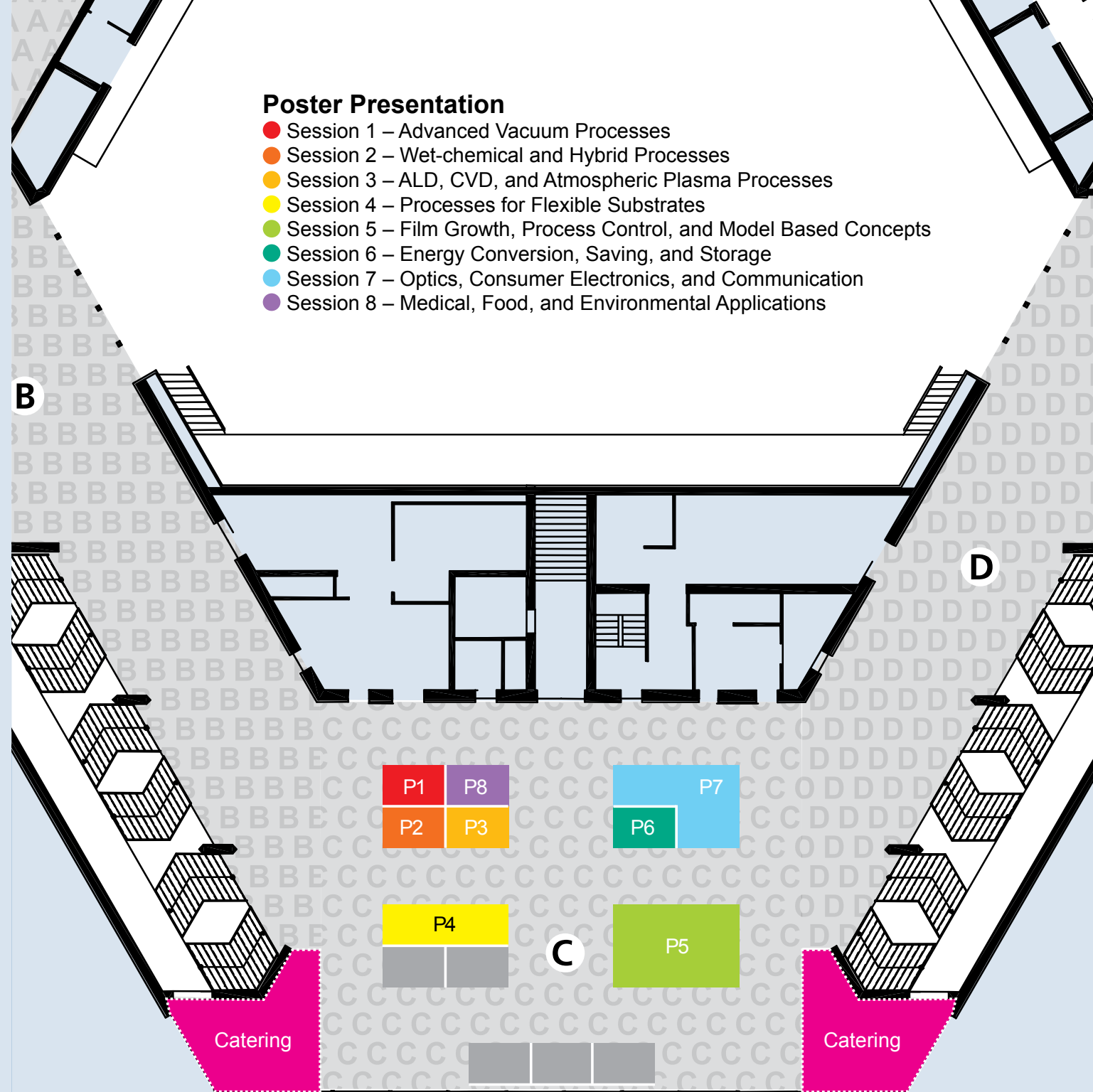
Thursday, June 16, 2016
12:45 p.m. – 05:00 p.m

Fraunhofer Institute for Surface Engineering and Thin Films IST*

On a tour through the laboratories of the Fraunhofer IST you will get an impression of our work in the fields of large area coating, characterization of materials and layers, diamond technology, diamond like carbon coatings and atmospheric pressure plasma processes.

GXC Coatings GmbH*

After the conference you will have the opportunity to visit GXC Coatings GmbH in Goslar. It was established in June 2000 and is a leading company for wet chemical nano-coatings of transparent materials. Their business is the development, application, production and marketing of nano-coating materials according to an improved sol-gel-method to increase the transparency of glass and polymers, especially with regards to anti-fogging, hardcoat and self-cleaning.



ICCG 11

Program

WEDNESDAY, JUNE 15

THURSDAY, JUNE 16

The 11th International Conference
on Coatings on Glass and Plastics

Conference Center
Stadthalle Braunschweig, Germany
www.iccg.eu

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



Wednesday, June 15

Session 5 – Film Growth, Process Control, and Model Based Concepts

Chairmen: B. Szyszka, Y. Shigesato

08:30 a.m. – 09:00 a.m. Keynote lecture

Modeling of titania growth by DC magnetron sputtering

S. Lucas, University of Namur, Namur, Belgium

09:00 a.m. – 09:20 a.m. Invited lecture

Deterioration of windshields by stone impacts and wiper scratches – comparison of glass with coated plastics

A. Matthai, AUDI AG, I/EK-P3, Ingolstadt, Germany

09:20 a.m. – 09:40 a.m.

Effect of substrate temperature on morphology and resistivity of inkjet printed ITO

T.M.Amaral, INM – Leibniz Institute for Materials, Saarbrücken, Germany

09:40 a.m. – 10:00 a.m.

Preparation and characteristics of Al doped ZnO transparent conductive films

J. Jia, Graduate School of Science and Engineering Aoyama Gakuin University, Japan

10:00 a.m. – 10:20 a.m. Invited lecture

Photovoltaics towards terawatt scale: challenges in research

B. Rech, Helmholtz-Zentrum Berlin für Materialien und Energie GmbH/ PVcomB, Berlin, Germany

Coffee break 10:20 a.m. – 10:50 p.m.

Session 6 – Energy Conversion, Saving, and Storage

Chairmen: W. DeBosscher, K. Kato

10:50 a.m. – 11:20 a.m. Keynote lecture

Switchable mirrors based on metal hydrides for smart windows

Y. Yamada, National Institute of Advanced Science and Technology (AIST)/Structural Materials Research Institute, Nagoya, Japan

11:20 a.m. – 11:40 a.m. Invited lecture

Thin film battery pilot production challenges

B. Riou, STMicroelectronics, Tours, France

11:40 a.m. – 12:00 p.m. Invited lecture

International technology roadmap for photovoltaic

J. Trube, VDMA Photovoltaic-Equipment, Frankfurt/Main, Germany

12:00 p.m. – 12:20 p.m.

Realistic performance evaluation of 4-terminal perovskite/c-Si tandem modules

W. Soppe, ECN/Solliance, Eindhoven, The Netherlands

12:20 p.m. – 12:40 p.m.

Sputtered photochromic and electrochromic devices based on tungsten oxide and redox electrolyte

A. Georg, Fraunhofer Institute for Solar Energy Systems ISE, Freiburg, Germany

Lunch break Sponsored by Bühler Alzenau 12:40 p.m. – 02:00 p.m.

Session 7 – Optics, Consumer Electronics, and Communication

Chairmen: N. Kaiser, G. Ockenfuß

02:00 p.m. – 02:30 p.m. Keynote lecture

Recent developments in the field of precision optical coatings

M. Frank, Optics Balzers AG, Balzers, Liechtenstein

02:30 p.m. – 02:50 p.m. Invited lecture

Plasma diagnostics for efficient optimization of optical coatings

R. Foest, Leibniz Institute for Plasma Science and Technology, Greifswald, Germany

02:50 p.m. – 03:10 p.m.

Printed P(VDF-TrFE) films and nanocomposite coatings as sensor materials on plastic substrates

D. Collin, Fraunhofer Institute of Silicate Research ISC, Würzburg, Germany

Coffee break 03:10 p.m. – 03:50 p.m.

03:50 p.m. – 04:10 p.m.

Towards tunable thin film filters with the use of liquid crystals

H. Bartzsch, Fraunhofer Institute for Organic Electronics, Electron Beam and Plasma Technology FEP, Dresden, Germany

04:10 p.m. – 04:30 p.m.

Conformal antireflection coatings with nanoporous SiO₂ made by atomic layer deposition (ALD)

L. Ghazaryan, Friedrich Schiller University Jena, Institute of Applied Physics, Jena, Germany

Panel discussion – Architectural Glazing – Quo Vadis?

Chairmen: J. Trube, M. Mennig, V. Sittinger

04:30 p.m. – 06:00 p.m.

Moderator: J. Strümpfel, Senior Consultant PVD, Germany

Panelists:

- D. Bernt, NSG Pilkington Glass, Russia
- M. Pfeiffer, Heliatek GmbH, Dresden, Germany
- S. Oktik, Şişecam, Turkey
- C. Timm, Skidmore, Owings & Merrill LLP, New York, USA
- H. Wittkopf, EControl-Glas GmbH & Co. KG, Plauen, Germany

Conference Dinner

07:00 p.m. – 11:00 p.m.

Conference dinner

Sponsored by: Advanced Energy Industries Inc.

Poster prizes

Sponsored by VAT Deutschland GmbH

Hans Pulker Award

Sponsored by ICCG e.V.

Waldhaus Oelper

Thursday, June 16

Session 8 – Medical, Food, and Environmental Applications

Chairmen: W. Viöl, R. Trassl

08:30 a.m. – 09:00 a.m. Keynote lecture

Food packaging in the future

H.-C. Langowski, Fraunhofer Institute for Process Engineering and Packaging IVV, Freising, Germany

09:00 a.m. – 09:20 a.m. Invited lecture

Nerves made of glass – new 3D visualization

W. Schade, Clausthal University of Technology, Clausthal, Germany
Fraunhofer Heinrich Hertz Institute HHI, Goslar, Germany

09:20 a.m. – 09:40 a.m.

DIBBIOPACK: Development of biodegradable and multifunctional packages: improvement of structural and barrier properties, smart features and sustainability

V. Peinado, AITIIP Technology Centre, R&D Department, Zaragoza, Spain

09:40 a.m. – 10:00 a.m.

Production of superhydrophobic surfaces by combining molding and atmospheric pressure plasma process

R. Duckstein, Fraunhofer Institute for Surface Engineering and Thin Films IST, Braunschweig, Germany

Coffee break 10:00 a.m. – 10:40 a.m.

10:40 a.m. – 11:00 a.m.

Protecting and preserving clear barrier layers for flexible packaging materials

A. Titzmann, Applied Materials Web Coating GmbH, R&D PVD and Packaging Processes, Alzenau, Germany

11:00 a.m. – 11:20 a.m.

Spot based analytics – surface modification and printing technologies

W. Weigel, SCIENION AG, Berlin, Germany

11:20 a.m. – 11:40 a.m.

Enhanced processing of coatings on glass surfaces by introducing atmospheric pressure plasmas to laser processes

C. Gerhard, Fraunhofer Institute for Surface Engineering and Thin Films IST, Braunschweig, Germany

11:40 a.m. – 12:00 p.m.

Liquid films and the plasma-enhanced deposition of solid coatings – new perspectives in-between polymer and plasma chemistry

S. Dahle, Clausthal University of Technology, Institute of Energy Research and Physical Technologies, Clausthal-Zellerfeld, Germany

12:00 p.m. – 12:10 p.m.

Closing remarks