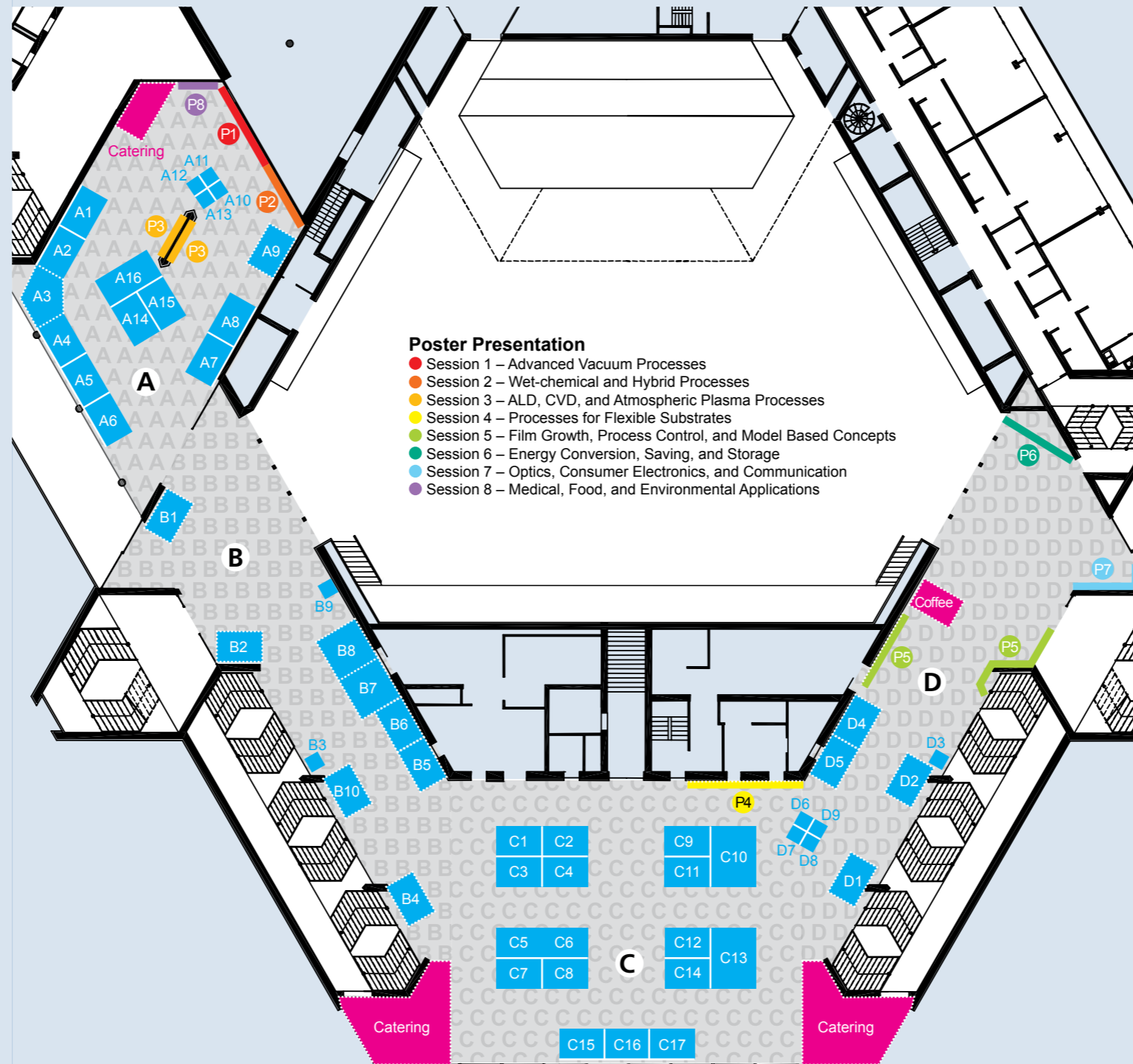


ADL Analoge & Digitale Leistungselektronik GmbH
 Advanced Energy Industries GmbH
 Agilent Technologies GmbH & Co. KG
 Applied Materials WEB Coating GmbH
 Bronkhorst High-Tech B.V.
 Bühler Alzenau GmbH
 Carl Zeiss Spectroscopy GmbH
 Cotec GmbH
 DataPhysics Instruments GmbH
 Dr.-Ing. K. Busch GmbH
 Edwards Vacuum
 European Society of Thin Films EFDS
 Euris GmbH
 FHR Anlagenbau GmbH
 Fraunhofer Institute for Organic Electronics,
 Electron Beam and Plasma Technology FEP
 Fraunhofer Institute for Silicate Research ISC
 Fraunhofer Institute for Surface Engineering
 and Thin Films IST
 Fraunhofer Photocatalysis Alliance
 GfE Metalle und Materialien GmbH / GfE Fremat GmbH
 Glass Performance Days GPD
 Heraeus Deutschland GmbH & Co. KG
 Hitachi High-Technologies Europe GmbH
 INPLAS e. V. – Network of Competence
 Industrial Plasma Surface Technology
 International Council for
 Coatings on Glass ICCG e.V.
 Isra Vision GmbH
 J. Schneider Elektrotechnik GmbH
 Kurt J. Lesker Company GmbH
 LayTec in-line GmbH
 MELEC GmbH
 Messe Düsseldorf GmbH
 m-u-t GmbH
 NAGY Instruments – NAGY Messsysteme GmbH
 Nova Fabrica Ltd.
 Oerlikon Leybold Vacuum GmbH
 OMT Solutions BV
 Pfeiffer Vacuum GmbH
 Plasmatrete GmbH
 Plusus GmbH
 robeko – Rolf Schäfer Beschichtungskomponenten
 Saint-Gobain Coating Solutions
 Sensirion AG
 SENTECH GmbH
 Sindhäuser Materials GmbH
 Singulus Technologies AG
 Society of Vacuum Coaters SVC
 Solayer GmbH
 Soleras Advanced Coatings
 SURAGUS GmbH
 TrigasFI GmbH
 TRUMPF Hüttinger GmbH + Co. KG
 VAT Deutschland GmbH
 VON ARDENNE GmbH
 W&L Coating Systems GmbH
 W. Theiss Hard- and Software

A2
D7
C15
A13
A14
C3
C14
C7
A9
C8
C1
D9
A10
D6
B2
C10
A4
D3
C9
A11
A7
C4
D4
A3
C17
D5
C16
A16
D2
B5
A8
A12
A6
B10
A15
D8
D1
C6
C5
C11
C12
B1
C13
A5
B3
A1
B4
A16
C12
C2
B7
B8
A2
B6



ICCG 11

Program

MONDAY, JUNE 13

TUESDAY, JUNE 14

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

 **Fraunhofer**
 IST

Monday, June 13

08:30 a.m. – 09:00 a.m.

Opening – Welcome address

Introductory Session – Market and Business in the Field of Coatings on Glass and Plastics

Chairmen: K. Suzuki, J. Vitkala

09:00 a.m. – 09:30 a.m.

Challenges for automotive glazing

J. Leohold, Volkswagen AG, Germany

09:30 a.m. – 10:00 a.m.

Architect's dream list

C. Timm, Skidmore, Owings & Merrill LLP, New York, USA

Coffee break 10:00 a.m. – 10:30 a.m.

10:30 a.m. – 11:00 a.m.

Ultra-thin glass and its applications

A. Saeki, Nippon Electric Glass Co.,Ltd., Shiga, Japan

11:00 a.m. – 11:30 a.m.

Advanced R2R manufacturing of printed, organic, flexible electronics

S. G. Stan, VDL Enabling Technology Group, Eindhoven, The Netherlands

11:30 a.m. – 12:00 p.m.

Organic solar films from vacuum roll-to-roll manufacturing for building-integrated photovoltaics

M. Pfeiffer, Heliatek GmbH, Dresden, Germany

12:00 p.m. – 12:30 p.m.

Market and business prospects on batteries

I. Cerri, Toyota Motor Europe – Advanced Technology, Zaventem, Belgium

Lunch break Sponsored by Bühler Alzenau 12:30 p.m. – 02:00 p.m.

02:00 p.m. – 02:30 p.m.

High-performance wet coatings on glass and plastics: history and new developments

H. Schmidt, HSM TechConsult GmbH, Saarbrücken, Germany

02:30 p.m. – 03:00 p.m.

Plasma medical science innovation towards a future therapy

M. Hori, Nagoya University, Nagoya, Japan

03:00 p.m. – 03:20 p.m.

Worldwide glass market and trends – executive summary from GPD 2015

J. Vitkala, GPD/Glaston Finland Oy, Finland

Coffee break 03:20 p.m. – 03:50 p.m.

ICCG 11 - June 12-16, 2016

Session 1 – Advanced Vacuum Processes

Chairmen: G. Bräuer, J. Strümpfel

03:50 p.m. – 04:20 p.m. Keynote lecture

Future of sputtering

H. Barankova, Uppsala University, Uppsala, Sweden

04:20 p.m. – 04:40 p.m.

Benefit of modern arc management in MF dual magnetron sputtering power supplies

M. Heintze, TRUMPF Hüttinger GmbH + Co. KG, Freiburg, Germany

04:40 p.m. – 05:00 p.m.

Large area co-sputtering: considerations for power and control

D. Christie, Advanced Energy Industries, Inc, Fort Collins, CO, USA

05:00 p.m. – 05:20 p.m.

TiO2/AZO bilayer thin films by magnetron sputtering as transparent electrodes for electrochromic devices

E. Gutierrez Berasategui, IK4-Tekniker, Research Centre, Guipuzkoa, Spain

05:20 p.m. – 05:40 p.m.

Low damage, low sputter voltage ITO layers via deposition from rotatable magnetrons

D. Monaghan, Gencoa Ltd, Liverpool, United Kingdom

05:40 p.m. – 06:00 p.m.

Excellent adhesion on plastics using HiPIMS

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

Industrial evening 06:00 p.m. – 08:30 p.m.

Tuesday, June 14

Session 2 – Wet-chemical and Hybrid Processes

Chairmen: J. Pütz, G. Schottner

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

Large area organic optoelectronic devices containing vacuum and solution processed layers

U. Lemmer, Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany

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

Various silica hybrid materials

H. Goda, Arakawa Chemical Industries, Ltd., Tsukuba, Ibaraki, Japan

ICCG 11 - June 12-16, 2016

09:20 a.m. – 09:40 a.m.

Wet-chemical deposited ITO thin films and their optoelectronic and microstructural properties

R. Budakoglu, Türkiye Şişe ve Cam Fabrikaları A.Ş. İstanbul, Turkey

09:40 a.m. – 10:00 a.m.

MgF2 antireflective coatings by sol-gel processing: preparation and performance

P. Löbmann, Fraunhofer Institute for Silicate Research ISC, Würzburg, Germany

10:00 a.m. – 10:20 a.m.

Combination of novel aerosol coating method and AR coating material to deliver superior quality of anti-reflective coating on solar cover glass

S. Tammela, Beneq, TFE, Espoo, Finland

Coffee break 10:20 a.m. – 11:00 a.m.

Session 3 – ALD, CVD, and Atmospheric Plasma Processes

Chairmen: D. Sheel, K. Spee

11:00 a.m. – 11:30 a.m. Keynote lecture

Large area atmospheric ALD/MLD on flexible substrates

S. Klotz, BASF Schweiz AG, Basel, Switzerland

11:30 a.m. – 11:50 a.m.

Spatial atomic layer deposition for large-area and flexible electronics

P. Poodt, Holst Centre/TNO, Eindhoven, The Netherlands

11:50 a.m. – 12:10 p.m.

Atomic layer deposition of Al, Nb and Ti doped ZnO transparent conductive oxides

S. Gurram, Fraunhofer Institute for Surface Engineering and Thin Films IST, Braunschweig, Germany

12:10 p.m. – 12:30 p.m.

Developments in plasma enhanced spatial ALD for high throughput applications

Y. Creghton, Solliance/TNO, Eindhoven, The Netherlands

12:30 p.m. – 12:50 p.m. Invited lecture

Roll-to-roll atmospheric pressure plasma CVD of SiO2 moisture barrier films

H. W. de Vries, FOM Institute Differ, Eindhoven, The Netherlands

Lunch break sponsored by Bühler Alzenau 12:50 p.m. – 02:20 p.m.

ICCG 11 - June 12-16, 2016

Session 4 – Processes for Flexible Substrates

Chairmen: R. Shimshock, T. Kälber

02:20 p.m. – 02:50 p.m. Keynote lecture

Roll-to-roll processing for flexible devices and components utilized in wearable and mobile electronics and the coming IoT era

N. Morrison, Applied Materials Web Coating GmbH, Alzenau, Germany

02:50 p.m. – 03:10 p.m. Invited lecture

The road from S2S to R2R – status, risks and visions for processing ultra-thin glass

M. Junghähnel, Fraunhofer Institute for Organic Electronics, Electron Beam and Plasma Technology FEP, Dresden, Germany

03:10 p.m. – 03:30 p.m.

Roll-to-roll coating of flexible glass – equipment and applications

C. Deus, VON ARDENNE GmbH, Dresden, Germany

Coffee break 03:30 p.m. – 04:10 p.m.

04:10 p.m. – 04:30 p.m.

Flexible high gas barrier encapsulations for OLED and OPV modules

K. Nagamoto, LINTEC Corporation, Saitama, Japan

04:30 p.m. – 04:50 p.m.

Roll-to-roll deposition of silicon nitride permeation barrier coatings using rotatable magnetrons

M. Fahland, Fraunhofer Institute for Organic Electronics, Electron Beam and Plasma Technology FEP, Dresden, Germany

04:50 p.m. – 05:10 p.m.

Low-e coatings on ETFE films for membrane architecture

C. Hildebrandt, Fraunhofer Institute for Solar Energy Systems ISE, Freiburg, Germany

05:10 p.m. – 05:30 p.m.

Optical in-line metrology systems for defect detection and process control in web coating

H. Oerley, Dr. Schenk GmbH Industriemesstechnik, Planegg, Germany

Poster session 05:30 p.m. – 07:00 p.m.

08:00 p.m. – 09:00 p.m.

Cathedral tour

Braunschweig Cathedral