

2ND CIRCULAR



ICCG 12

THE 12TH INTERNATIONAL CONFERENCE ON COATINGS ON GLASS AND PLASTICS

Advanced coatings for large-area
or high-volume products

JUNE 11-15, 2018

Conference Center Würzburg,
Germany · www.iccg12.de

Organized by
International Organizing Committee of ICCG,
Fraunhofer Institute for Silicate Research ISC
and Vincentz Network



Fraunhofer

ISC



VINCENTZ



THE 12TH INTERNATIONAL CONFERENCE
ON COATINGS ON GLASS AND PLASTICS
JUNE 11-15, 2018

Dive into the World of Coatings

We look forward to welcoming you to the ICCG12 which will be held for the first time in Würzburg. ICCG is a biannual international scientific conference including technical exhibition and industry get-together.

In 2018, participants will “Dive into the World of Coatings” and will find this motto reflected on a number of very different levels which all serve to create an attractive meeting space for scientists, engineers and managers, and practitioners from research, academia and industry. There will be extensive opportunities to discuss all kinds of topics in the field of large-area coatings on glass and plastics.

New concept

To foster the idea of networking and to offer a platform for future projects and products, the accompanying exhibition will be turned into a marketplace for innovation. Exhibitors will have the opportunity for B2B meetings and there will be time available for in-depth discussions without missing a presentation.





Conference topics

The application of coatings onto glass and plastics is generally of major importance to create high added value products. Large area deposition of inorganic materials under atmospheric or vacuum conditions has become the basis of energy savings, harvesting, and storage. Optical thin films dominate the market in consumer electronics and communication networks. Emerging markets and new business opportunities for high volume products rely on coatings on flexible substrates generated either through plasma enhanced processes or wet chemical deposition techniques. Advanced materials and hybrid nanocomposites present further options to create multifunctional and even active surfaces contributing to the success of high-tech products and services. The 12th ICCG will highlight these international market trends, discuss new relevant materials and deposition technologies. We will bring together experts from science and industry as well as various stakeholders defining the future of surfaces and coatings.

Short courses

Prior to the conference, on Monday afternoon June 11, 2018, several short courses will be given by experts in the field of thin films and coatings. These educational lectures are intended to provide fundamental and technological background on specific conference topics.

Short courses

Monday, June 11, 2018, 13.00 – 18.00 h,

Location: Fraunhofer ISC

Chairman: Dr. G. Schottner

Registration

Short tour facilities Fraunhofer ISC

(R2R Coating machines, high resolution thin film characterization)

Ultrathin glasses

Dr. Manuela Junghänel, Fraunhofer FEP, Germany

Flexible electronics and organic photovoltaics

Ric Shimshock, MLD Technologies, USA

Vacuum deposition technology and thin film photovoltaics

Prof. Bernd Szyszka, TU Berlin, Germany

Coffee break

Chemical nanotechnology and sol-gel coatings

Dr. Karl-Heinz Haas, Fraunhofer ISC, Germany

Electrically switchable thin films and devices

Dr. Uwe Posset, Fraunhofer ISC, Germany

Conference program

Introductory session

Markets and business in the field of coatings on glass and plastics

Chairmen: Dr. K. Suzuki, Mr. J. Vitkala

Keynote/invited lectures:

Disruptive digital glass

Michael Robinson, CEO & Design Director, ED Design, Italy

Glass coatings for automotive applications

*Dr. Wilma Dewald, Corporate Research Group
Materials and Manufacturing Processes, Volkswagen, Germany*

Global glass business and market opportunities

Prof. Şener Oktik, CTO Şişecam, Turkey

Market and emerging business in roll-to-roll large area printed electronics

Dr. Thomas Kolbusch, Coatema Machinery, Germany

The future of food packaging

Prof. Ali Harlin, VTT Technical Research Center, Finland

The future of driving and batteries for electric vehicles

Karim Zaghib, Director Research Center, Hydro Quebec, Canada

Technical sessions

1 Advanced vacuum processes

Chairmen: Prof. Dr. G. Bräuer, Dr. J. Strümpfel

Keynote: **The route towards mass production of vertical graphene with microwave PECVD**

Dr. Michael Liehr, W+L Coating Systems, Germany

2 Atmospheric pressure processes

Chairmen: Prof. Drs. K. Spee, Dr. J. Pütz

Keynote: **Langmuir-Blodgett method-based technology for photovoltaics and displays chemo-mechanical and oleophobic protection**

Vladimir Shiripov, Izovac, Russia

Invited: **ALD etching and ALD patterned deposition**

Prof. Dr. Fred Roozeboom, Eindhoven

University of Technology, The Netherlands

3 Film growth, metrology, process control, simulation

Chairmen: Mr. R. Shimshock, Dr. T. Kälber, Prof. Dr. B. Szyszka

Invited: **On the time scale associated with Monte Carlo simulations**

Prof. Dr. Erik C. Neyts, University of Antwerp, Belgium

4 Energy conversion, lighting, displays

Chairmen: Dr. M. Junghänel, Mr. D. Bernt

Keynote: **S2S and R2R production processes for perovskite based PV modules**

Ronn Andriessen, CTO Solliance/TNO, Belgium

Invited: **PV integrated in window panes**

Willem Kesteloo, Physee, The Netherlands

5 Optics, sensors, life sciences, packaging

Chairmen: Dr. G. Ockenfuss, Prof. Y. Shigesato

Keynote: **Optical Sensors**

Markus Bilger, VIAVI Solutions, USA

Invited: **Packaging based on Bio-ORMOCER®s**

Dr. Sabine Amberg-Schwab, Fraunhofer ISC, Germany

6 Architectural and automotive glazing

Chairmen: Prof. S. Oktik, Dr. R. Thielsch

Keynote: **Optical coatings for automotive and building applications**

Dr. Chris Stoessel, Sr. Manager Process Development, Eastman Chemical Company, USA

Invited: **Coating of ETFE – solar shading for architectural applications**

Dr. Carl Maywald, Vector Foiltec, Germany

Panel discussion:

Electromobility and autonomous driving

Preliminary schedule and social events

Monday, June 11, 2018

13.00 – 18.00 h **Short courses at Fraunhofer ISC**
 19.00 – 22.00 h **ICCG 12th Welcome reception**

Tuesday, June 12, 2018

08.30 – 18.00 h **Conference, plenary sessions,
innovation market, exhibition**
 Evening **Time available for recreation**

Wednesday, June 13, 2018

08.30 – 18.00 h **Conference, plenary sessions,
innovation market, exhibition**
 18.00 – 20.00 h **Afterwork reception**

Thursday, June 14, 2018

08.30 – 18.00 h **Conference, plenary sessions,
innovation market, panel discussion**
 19.00 – 23.00 h **Conference dinner**

Friday, June 15, 2018

09.00 – 14.00 h **Company tours**

Conference fees

Full conference Until April 15, 2018 From April 16, 2018

Regular	€ 850	€ 1.100
Speaker	€ 800	€ 800
Students	€ 350	€ 450
Students presenting	€ 275	€ 275

Single day

Regular	€ 390	€ 490
Students	€ 100	€ 100
Accompanying person	€ 200	€ 250

Short Courses

Regular	€ 280	€ 350
Students	free	free

Call for papers

The organizing committee invites you to share your latest research, technology and application results with an international audience as an oral or a poster presentation. Please refer to the website for more detailed information and submit your abstract at:

www.iccg12.de/call-for-papers

Important dates:

Abstract submission: **January 12, 2018**

Submission of full papers: **April 6, 2018**

Abstract guidelines:

- The conference language is English
- Abstracts should be objective and technical and should be based on data not previously published. The text must be no longer than 400 words and should be without equations, figures or references
- Authors will be asked to prepare an extended version or a full paper for publication in a book of proceedings if their abstract is accepted, **submission due by April 6, 2018**
- The review of abstracts will be completed by **January 22, 2018**. A **notification of acceptance** along with further instructions will be sent to authors whose abstracts were accepted for the conference. They will also be notified of the form in which their paper shall be presented, i.e. either as an oral or a poster presentation
- In addition, authors will have the opportunity to submit original scientific papers for peer-reviewed publication in *Thin Solid Films* (Elsevier). **The deadline for the manuscripts is July 1, 2018**. Further details on the publication process will be provided with the notification of acceptance
- If an abstract is accepted, a full registration fee for speakers will be required for the author in charge. The conference office should be notified immediately of any changes regarding the author in charge/presenting author or of a cancellation

Poster session

Posters will be presented during a special poster session and will be displayed during the whole conference. The three best posters of the conference will receive poster prizes.

Hans Pulker Award

The best conference presentation as selected by an international jury will be awarded the Hans Pulker Award donated by ICCG e.V.



Publication timeline

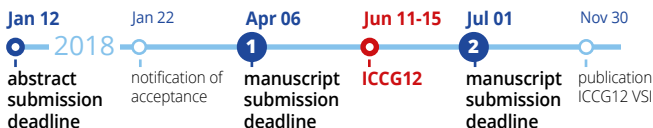
1 Conference Proceedings

(non peer-reviewed)

optional:

2 Thin Solid Films

VS / virtual special issue
(peer-reviewed)



General information

Venue

Congress Center Würzburg (CCW)
Krankenai 34, 97070 Würzburg, Germany

Accommodation

Hotel accommodation is not included in the conference fee.
We offer you a wide selection of hotels to choose from.
Please complete your reservation online at:

www.iccg12.de/location/hotel

Conference fees

Please refer to the registration form for more detailed information on prices. Please note that you will receive our early-bird pricing when completing your registration on or before April 15, 2018.

Conference fees include

Lunch & coffee breaks · social events · proceedings not included

Exhibitor registration

Please note that you will receive our early-bird pricing when completing your registration on or before December 31, 2017. Please find the application form for exhibitors and further information online at: www.iccg12.de/exhibition

Social programme

Located on both banks of the river Main, the city of Würzburg is an inviting venue. The lovely historic center offers ample meeting opportunities to continue discussions outside the conference rooms. During the ICCG 12, two other events are hosted in Würzburg city center: the 2018 German Landesgartenschau (a State Horticultural Show) and the Mozart Festival. This is your chance to combine three high-class events at the same time. Consider this excellent opportunity to stay an extra day to see it all. For further information please visit: www.iccg12.de/program/social

International organizing committee

Chairman: Prof. Dr. G. Bräuer, Fraunhofer IST, *Germany*
Secretary: Dr. K. Suzuki, SurFtech Transnational Co., Ltd., *Japan*
Vice Chair: Prof. Drs. K. Spee, Solliance / TNO, *The Netherlands*
Editorial Chairman: Dr. J. Pütz, Carl Zeiss Vision Int. GmbH, *Germany*

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Mr. K. Maeshige, Asahi Glass Co., Ltd., *Japan*
Dr. M. Mennig, mm.nanoconsulting, *Germany*
Dr. K. Nagamoto, Lintec Co., Ltd., *Japan*
Dr. G. Ockenfuß, Viavi Solutions Inc., *USA*
Prof. Dr. S. Oktik, ŞİŞECAM, *Turkey*
Dr. Y. Saito, Nippon Sheet Glass Co., Ltd., *Japan*
Dr. G. Schottner, Fraunhofer ISC, *Germany*
Prof. Dr. Y. Shigesato, Aoyama Gakuin University, *Japan*
Mr. R.P. Shimshock, MLD Technologies, *USA*
Dr. J. Strümpfel, Senior Consultant PVD, *Germany*
Prof. Dr. B. Szyszka, Technical University Berlin, *Germany*
Dr. R. Thielsch, Eastman Chemical Co., *Germany*
Dr. R. Trassl, Applied Materials, *Germany*
Dr. J. Trube, Verband Deutscher Maschinen- und Anlagenbau e.V., *Germany*
Mr. J. Vitkala, Glaston Oy, *Finland*
Dr. S. Wang, Institute of Materials Research and Engineering, *Singapore*
Prof. Dr. H. Ye, Zhejiang University, *China*

Local organizing committee

Director of Fraunhofer ISC: Prof. Dr. G. Sextl
Local Chairman: Dr. G. Schottner
Local Secretary: S. Herold
Local Editorial Chairman: Dr. U. Posset
Local Organizing Team: S. Rota, M.-L. Dörffel,
K. Wilger, M. Schürmeyer

Supported by

Deutsche Glastechnische Gesellschaft (DGG), *Germany*
Glass Innovation Institute (GII), *Finland*
Glass Performance Days (GPD), *Finland*
Glass Worldwide, *UK*
PLASMA GERMANY, *Germany*
Society of Vacuum Coaters (SVC), *USA*



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Your key contacts

ICCG Secretary

**1509 Inshia-Shinkawasaki 3-1, Shinkawasaki, Saiwai-ku,
Kawasaki-shi 212-0032, Japan**

Dr. Koichi Suzuki

T +32 2 675 0511

T +81 50 5532-1220

koichisuzuki@surftec.co.jp

Fraunhofer ISC

Neunerplatz 2, 97082 Würzburg, Germany

Dr. Gerhard Schottner, Local Chairman

T +49 931 4100-627

gerhard.schottner@isc.fraunhofer.de

Sabrina Rota

T +49 931 4100-122/-501

sabrina.rota@isc.fraunhofer.de

Vincentz Network

Plathnerstraße 4c, 30175 Hannover, Germany

www.iccg12.de/contact

Exhibition/Sponsoring:

Kristina Wilger

T +49 511 9910-273

kristina.wilger@vincentz.net

Conference:

Moritz Schürmeyer

T +49 511 9910-278

moritz.schuermeyer@vincentz.net

IMPORTANT DATES

Abstract submission

Jan. 12, 2018

Submission of full papers

Apr. 06, 2018

Early bird rate exhibition

Dec. 31, 2017

Early bird rate conference participation

Apr. 15, 2018

Register online at:

www.iccg12.de/registration

