



## Program

### of The 3rd International Symposium on Coatings on Glass and Plastics (The 3rd Mini-ICCG\* )

April 4 & 5, 2019 IVYHALL, Aoyama Gakuin University

Note1 : There is still a possibility of some changes in the program due to the personal reasons of the presenters.

#### <Thursday, April 4, 2019>

8:00~9:00 Registration

9:00~9:30 Opening (Introduction of ICCG, AIOT and presenters)

#### ----- Introductory Session (General & Market Overview) -----

*Session chairman: Jorma Vitkala, Koichi Suzuki*

9:30~10:20 P1- Michael Robinson (Consultant, Italy)

“Digital Disruption, How AI is Entering our Companies ?”

10:20~10:40 Coffee break

10:40~11:30 P2-Mr. Michael Robinson(Consultant, Italy)

“Next-Gen Automotive Glass Trends”

11:30~12:20 P3-Dr. Lukas Enke(Volkswagen Japan, Japan)

“Glass coatings for automotive applications”

12:20~13:20 Lunch

*Session chairman: Manuela Junghaehnel, Kazuhiro Kato*

13:20~14:10 P4-Prof. MunPyo Hong ( Korea University, Korea)

“The future of display technologies: Wearable & stretchable”

14:10~15:00 P5-Mr. Jorma Vitkala(Chairman of GPD/Glaston, Finland)

“World trend of glass processing market and technology”

15:00~15:20 Coffee break

#### ----- Session1: Advanced vacuum process -----

*Session chairman: Bernd Szyszka,*

15:20~16:10 P6-Guenter Braeuer(Director of FaunhoferIST, Germany)

“Sputtering technology – recent developments and application examples”

16:10~17:00 P7-Dr. Manuela Junghaehnel (Fraunhofer FEP, Germany)

“Perspectives of Innovative PVD Coatings on Flexible Glass in  
Sheet-to-Sheet and Roll-to-Roll Processes”

17:00~17:50 P8-Dr. Volker Sittinger (FraunhoferIST, Germany)

“Route to optimized aluminum-doped zinc oxide films from metallic  
rotatable sputter targets on large area for thin film photovoltaic modules”

18:00~20:00 **Welcome reception at Aron of IVYHall with poster presentation!!**

<Friday, April 5, 2019>

9:00~9:10 Opening of the 2nd day

----- **Session2: Atmospheric pressure process** -----

*Session chairman: Volker Sittering, Kazuhiro Kato*

9:10~10:00 P9- Dr. Joerg Puetz(Carl Zeiss Vision, Germany)

“Optical Polymers and Coatings for Ophthalmic Applications”

10:00~10:50 P10-Dr. Sebastian Gatz(Meyer Burger Germany)

„Enhanced high-throughput PECVD coatings and InkJet printing technologies for glasses and plastics”

10:50~11:10 Coffee break

----- **Session3: Film growth, metrology, process control, simulation** -----

*Session chairman: Johana Kuncova-Kallio, Yuzo Shigesato*

11:10~12:00 P11-Dr. Bernd Szyszka (Berlin Technical University, Germany)

“Recent material and process innovation for large area coatings  
-a viewpoint from photovoltaics”

----- **Session4 Energy conversion, lighting, display** -----

12:00~12:50 P12- Prof. Hui Ye( Zhejiang Univ., China)

“TCO/metal/TCO sandwich structures and their application in optoelectronics”

12:50~13:50 Lunch

*Session chairman: Joerg Putz, Koichi Suzuki*

13:50~14:30 P13- Dr. Manuela Junghaehnel (Fraunhofer FEP, Germany)

“Flexible Electronics – Markets, Trends and Aspects in Manufacturing

----- **Session5 : Optics, Sensors, life science, packaging** -----

14:30~15:20 P14-Dr. Johana Kuncova-Kallio (CEO, BioNavis, Finland)

“Re-inventing industries with nano-technologies:From high volume to high  
-value products”-

15:20~15:40 Coffee break

*Session chairman: Hui Ye, Yuzo Shigesato*

15:40~16:30 P15-Dr. Georg Ockenfuss(Viavi Solutions, USA)

“Development in Optical Sensing in the Customer Electronic, Medical and  
Automotive markets”

----- **Session6: Automotive and architectural glazing** -----

16:30~17:10 P16- Timo Saukko, Finnglass Oy, Finland

“Electrically heatable glass and cold climate”

17:10~18:10 **Panel discussion on “The future of automotive glass and plastics”**

Panelists( Nominated with possibility of change);

Mr. Robinson(Car designer), Dr. Enke(VW), Mr.Miyagawa(AGC)

Moderator; Prof. Braeuer(Director of FraunhoferIST / ICCG chairman)

18:10~18:30 Closing

“Invitation to ICCG13” by Dr. Volker Sittering (FraunhoferIST)

18:40~20:30 **Get-together party with poster presentation at Aron of IVYHall**

# The following papers are included in the proceedings although their aural

presentations were cancelled due to their personal reasons.

*-Dr. Roland Trassl(Applied Material Web Coating, Germany)*

*“Roll-to-Roll Processing of Flexible Devices and Components Used in  
Mobile & Wearable Electronics and the Coming IoT Era”*

*-Dr. WANG Shi-Jie(Institute of Materials Research and Engineering, Singapore)*

*“Functional glass coatings for green building applications”*

*-Prof. Dr. Şener Oktik(ŞİŞECAM Science & Technology Center)*

*“Development in Optical Sensing for Consumer Electronic, Medical and  
Automotive Markets” (Only abstract was allowed to be printed.)*