Format of the OLED Technologies summit
This 2-day summit delivers case-studies, workshops and panel discussions from our distinguished expert-speakers.

This year we will look as such topics as:
- OLED market innovation & design changes
- Breakthrough manufacturing solutions, materials and technologies
- OLED lighting encouraging perspectives: technology and design innovations
- Innovative applications: Virtual & Augmented Reality, Wearables, Home & Office devices & vehicle/aviation displays
- Future of displays: flexible, foldable and transparent
- Commercialization of OLED displays
- Opportunities and Challenges for OLED across industries
- Brand Building and Customer Engagement with OLED
- Advanced Materials for AMOLED Displays

Who should attend:
This summit will create a platform for companies active along the OLED value chain – manufacturers and distributors of OLED optical, electronic, thermal components, applications and modules, OLED tools producers, developers of IT solutions for OLED, technical and industrial engineering consultancy firms as well as laboratories and qualification bodies with the following Job Titles:
- CEOs/CIOs/Managing Directors
- CTOs/Technology VPs
- Technical Directors/Heads
- VPs/Managers of Product & Innovations
- OLED Technology VPs/Managers
- Head of Product Management
- Quality Directors & Managers
- R&D Directors/Managers
- Business Development Directors/Heads
- Sales & Marketing Director/Heads
- Application Technology & Scientists
- Consultants & Analysts
- Etc.

From across the following Industries:
- Consumer Goods/ Home Appliances
- High-Tech, Electronics & Wearables
- Materials
- Automotive/Aerospace & Defense
- Lighting
- Displays
- & Others

About Venue:
Crowne Plaza Berlin City Centre
Nürnberger Str. 65 10787 Berlin
Phone: + 49 30 - 21 007 0
Email: info@cp-berlin.com
www.cp-berlin.com

X 12+ Industry Case Studies
X 20+ Hours of networking: forge new professional contacts during numerous networking breaks between sessions & during the special Networking Dinner on November 23
X 100+ Pages of the Post- summit documentation package available upon demand*

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**Exploring OLED Best Practices**

09:40  Case Study:  
**New technologies for Colouring in displays**
- Application of Quantum Dots
- Environmentally friendly technologies
- Innovative film technologies for organic light-emitting diodes
- Integration of OLED modules into clothing

**Armin Wedel**  
Division Director Functional Polymers  
Fraunhofer Institute for Applied Polymer Research

10:20  Case Study:  
**Creating an open access European flexible OLED pilot line**
- Open access, customized flexible OLED services
- Bridging the gap between R&D and mass manufacturing
- Accelerating integration of flexible OLEDs in diverse applications other application fields

**Christian May**  
Head of Division Flexible Organic Electronics  
Fraunhofer FEP

11:00  Morning Coffee and Networking Break

11:20  Case Study:  
**Enabling R&D Methods for OLED Displays and Lighting**
- Extraction of electrical OLED material parameters from DC, AC and transient techniques
- OLED light-outcoupling enhancement methods
- Analyzing angular luminescence of OLED emitter layers
- Numerical investigation of OLED pixel cross-talk

**Beat Ruhstaller**  
Professor, Zurich University of Applied Sciences  
Chairman, Fluxim AG

**Next Generation of OLED Applications**

12:00  Case Study:  
**Opportunities and Challenges for OLED in Automotive Lighting Applications**
- OLED strongly design driven – Automotive industry as innovation driver
- Segmentation and Flexibility as key differentiators
- Technology challenges: Robustness and Reliability
- Automotive applications to be a stepping stone for other application fields

**Marc Luenemann**  
CEO and Managing Director  
OSRAM OLED GmbH

14:40  Case Study:  
**RGB sub-patterning for upcoming ultra-high definition AMOLED**
- Motivation for AMOLED RGB sub-patterning at micron sub-pixel pitch scale
- Current state-of-the-art
- New approaches for high-resolution OLED RGB micro-patterning
- Conclusion

**Uwe Vogel**  
Head of Division Microdisplays & Sensors, Deputy Director  
Fraunhofer FEP

**OLED Technologies Summit**

**Berlin | Germany**  
OLED Technologies Summit  
Creating an open access European flexible OLED pilot line
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**Christian May**  
Head of Division Flexible Organic Electronics  
Fraunhofer FEP

**Outlook on Practical use of OLED Lighting**
Solid State Lighting will be the future lighting technology and OLED will be a significant part of it. OLEDWorks will give a technology overview and explain the possible future of OLED Lighting. Several application examples will be shown taking into account the OLED Product Direction for distinction.

**Wolfgang Görgen**  
Managing Director  
OLEDWorks GmbH

**Networking Dinner (Crowne Plaza Restaurant)**
DAY 2
24 | NOVEMBER

BERLIN | GERMANY

OLED TECHNOLOGIES
SUMMIT

ENHANCING PERFORMANCE & COMPETITIVENESS
WITH INNOVATIVE OLED MATERIALS

08:30 Check-In and Welcome Coffee
09:00 Opening Address from the Chairman/ Recap of Day 1

09:10 Case Study: Monolithic OLEDs with addressable beam shape

- device optics for beam shape control
- driving concept for active beam shaping
- incorporation of passive optical elements

Sebastian Reineke
Chair for Organic Semiconductors
IAPP

09:50 Case Study: Measuring and Understanding VR Presence Factors with OLED

- Display inspection requirements for Near-eye displays
- Motion blur and ghosting effects in full vs low persistence displays – how to quantify and judge the results in perceptual manner
- VR display resolution – the path and caveats to reach perceived 20/20 vision

Kimmo P Jokinen
CTO
OptoFidelity

10:30 Morning Coffee and Networking Break

11:00 Case Study: SAES encapsulation approaches and products for OLED technology

- OLED degradation phenomena
- Encapsulation approaches
- SAES Functional Chemicals
- SAES products for OLED Technology

Corrado Carretti
Opportunity and Technology Scouting Manager
SAES Getters S.p.A.

11:40 Case Study: Highly efficient emitting materials for OLED applications

- Role of highly efficient materials in OLED devices
- TADF technology as a key to OLED revolution
- Commercialization plan of first RGB-TADF emitters

Mathias Mydlak
Product Manager
Cynora

12:20 Case Study: Opportunities and challenges for OLED emitting sources across industries segments

- Overview about the fine sources of light
- Short introduction about OLED technologies
- OLED production cost, and reduction perspectives
- Where / or how the OLED technology has an added value
- Conclusion

Hani Kanaan
Smart Lighting Technologies
CEA Tech

13:00 Business Lunch

14:00 Case Study: Robust & reliable OLED thin-film encapsulation

- OLED thin-film encapsulation requirements
- Motivation for ALD - conformal & pinhole-free layer
- ALD equipment for TFE - State-of-the-art & future outlook

Mikko Söderlund
Head of Industrial Solutions
Beneq

14:40 Case Study: Recent Progress in Solution Processed Organic Light Emitting Diodes

- Hetero structure OLEDs by solution processing
- Improved out coupling of light by plasmonics
- Large area printed transparent electrodes

Emil List-Kratochvil
Institut für Physik, Institut für Chemie und IRIS-Adlershof
Humboldt-Universität zu Berlin
Beneq

15:20 Wrap-Up Discussion and Chairman's Closing Remarks

15:30 Post-Conference Refreshments

* TBC

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Siebe van Mensfoort obtained his PhD in Applied Physics on experiments and modelling of blue polymer-based OLEDs at Philips Research in 2009. Since then, he has worked as Project Manager at Philips Lighting, as Management Consultant at A.T. Kearney and as Business Developer at Prodrive Technologies. He is co-founder and CEO of Simbeyond B.V., a company specialised in molecular-scale software tools for efficiently developing new OLED materials and stacks.

Dr. May is acting as Division Director Flexible Organic Electronics at Fraunhofer Institute for Organic Electronics, Electron Beam and Plasma Technology FEP. He studied Physical Metallurgy at Freiberg University of Mining and Technology. First he was with a vacuum coating system supplier as project manager dealing with large area thin film deposition. Since 2003 he is with Fraunhofer active in OLED development, with a special focus and huge knowledge in flexible OLED for lighting applications. Currently he is involved in the Internal Advisory Board of the EU project Pl-Scale targeting an open access pilot line service for flexible OLED. Dr. May is the spokesman of the OE-A (Organic and Printed Electronics Association) roadmap team Lighting.

Corrado Carretti, graduated in Physics at the Milano University, acquired more than 15 years of experience in the field of Vacuum Technology, Gettering and Display Technology (CRTs, FEDs, PDPs, OLEDs) in SAES Getters R&D labs. Since 2008, he was appointed as Knowledge Manager, focusing the items related to both technological information and scientific knowledge creation and dissemination. Then, in 2013 he became Responsible of the Opportunity and Technology Scouting Department, having the mission of identify new business opportunities in a medium-long time horizon, and monitoring the global innovation trends related to a wide range of technologies, materials and applications, in view of a long term sustainability of the Company. He published more than 20 scientific papers, some of which focused on either Display technologies or Innovation practices, and filed 10 patents.

Uwe Vogel is a skilled worker in semiconductor microelectronics in 1983, diploma in information technology in 1991, doctoral degree in biomedical engineering in 1999. Center for Applied Optics Studies at Rose-Hulman Institute of Technology FEP. Since 2000 head of Analog/Mixed-Signal IC Design, starting the items related to both technological information and scientific knowledge creation and dissemination. Then, in 2013 he became Responsible of the Opportunity and Technology Scouting Department, having the mission of identify new business opportunities in a medium-long time horizon, and monitoring the global innovation trends related to a wide range of technologies, materials and applications, in view of a long term sustainability of the Company. He published more than 20 scientific papers, some of which focused on either Display technologies or Innovation practices, and filed 10 patents.

Mikko Söderlund obtained his PhD in Applied Physics on experiments and modelling of blue polymer-based OLEDs at Philips Research in 2009. Since then, he has worked as Project Manager at Philips Lighting, as Management Consultant at A.T. Kearney and as Business Developer at Prodrive Technologies. He is co-founder and CEO of Simbeyond B.V., a company specialised in molecular-scale software tools for efficiently developing new OLED materials and stacks.

Dr. Mikko Söderlund is Head of Industrial Solutions at Beneq, leading supplier of thin-film coating equipment and services based on atomic layer deposition technology. He has Masters in Electrical engineering (1998) from Helsinki University of Technology, and Doctor's degree (PhD) on Micro – and Nanotechnology 2010, also from Helsinki University of Technology. Dr Söderlund has more than 10 years experience in photonics and nanotechnology-based product development, marketing and sales. In 2010 Dr. Söderlund joined Beneq to lead the development of ALD-based thin-film encapsulation solutions, which has enabled Beneq to achieve a leading position as a supplier of industrial ALD TFE systems for both large sheet substrates as well as roll-to-roll coating of flexible ultra-barrier films.

Dr. Mikko Söderlund is Head of Industrial Solutions at Beneq, leading supplier of thin-film coating equipment and services based on atomic layer deposition technology. He has Masters in Electrical engineering (1998) from Helsinki University of Technology, and Doctor’s degree (PhD) on Micro – and Nanotechnology 2010, also from Helsinki University of Technology. Dr. Söderlund has more than 10 years experience in photonics and nanotechnology-based product development, marketing and sales. In 2010 Dr. Söderlund joined Beneq to lead the development of ALD-based thin-film encapsulation solutions, which has enabled Beneq to achieve a leading position as a supplier of industrial ALD TFE systems for both large sheet substrates as well as roll-to-roll coating of flexible ultra-barrier films.
Mathias Mydlak
Product Manager
Cynora

Dr. Mathias Mydlak joined CYNORA in 2011, after receiving his PhD at the University of Münster on Iridium- and Platinum-based OLED emitters. Following the initial year as a device scientist and two years of business development at CYNORA, he is now supporting the material integration by the customers as the product manager.

Beat Ruhstaller
Professor, Zurich University of Applied Sciences
Chairman, Fluxim AG

Prof. Dr. Beat Ruhstaller is lecturer at the Zurich University of Applied Sciences ZHAW and founder of Fluxim. After a Diploma in Physics from ETH Zürich he obtained his PhD in Physics at the University of California, Santa Cruz (USA), in 2000. He was a postdoc at the IBM Zurich Research Laboratory in the display technology group before joining ZHAW, where he headed the Institute of Computational Physics from 2007 to 2010. In 2006 he founded Fluxim which he has managed as CEO since 2011. Fluxim has successfully brought R&D tool innovations from the lab to the OLED display and lighting as well as solar cell industry.

Kimmo P Jokinen
CTO
OptoFidelity

Kimmo Jokinen is a CTO and co-founder of OptoFidelity, a high-technology firm that helps the smart and connected devices ecosystem companies to enhance their products’ user experience. The clients include the clear majority of the most valuable technology companies in the world. Before the entrepreneur career at OptoFidelity, Kimmo served as Principal Software Engineer and System Consultant in companies like Honeywell and AtoStek. Kimmo holds master’s degree in measurement technology, and is specialized in machine vision and robotics.

OLED-Info has been the leading international OLED publication for over 10 years, with a readership of more than 120,000 professionals a month. We provide a multitude of services to the OLED market based on our extensive and up-to-date knowledge hub and close ties with industry leaders. Our consultancy services include market outreach assistance, display brokerage, business development, financial intermediation and more.

An OLED uses organic semiconductors to create thin light emitting panels. OLEDs are used to create thin, beautiful, flexible and efficient display and lighting panels, and are the future technology of choice.

https://www.oled-info.com/

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In Latin, ‘Veritas et Visus’ means “Truth and Vision”. Our mission is to provide readers with pertinent, timely and affordable information about the fascinating and rapidly expanding flat-panel display industry. Our goal is to help organize all the scattered news from around the world into a format that is simple and useful to readers with specific interests in the flat-panel display industry. To accomplish our goal we offer a series of five specialty newsletters that help people better understand what is going on in the display industry. Our five newsletters cover the following areas flexible displays, display related standards and regulations, 3D technologies, high-performance displays, and touch/gesture-based implementations.

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