

Registration by fax

+ 49 6732 935 123

- I will attend the symposium "Microdisplays 2019" as guest (490,00 €/620,00 € plus 19% VAT).
- I will attend the symposium "Microdisplays 2019" as exhibitor (690,00 €/860,00 € plus 19% VAT).

Title

Last name, first name

Company (invoice address)

E-Mail

Street (invoice address)

ZIP Code, City (invoice address)

Signature

With my signature I accept the terms and conditions of Photonics Hub GmbH (available at www.photonics-hub.de/kontakt/agbs).

Note: According to Art 6 GDPR (EU General Data Protection Regulation) we inform you about the electronic storage of your data and the processing in the automatic procedure.

Online registration

www.photonics-hub.de

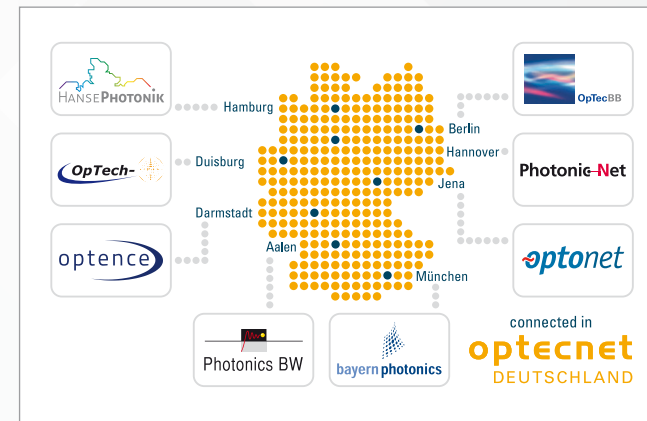
Attendance Fee

- Participant**
Members of German Photonic Innovation Networks **490,00 € pp**
- Participant**
Non-members **620,00 € pp**
- Exhibitor**
Members of German Photonic Innovation Networks **690,00 € pp**
- Exhibitor**
Non-members **860,00 € pp**

all prices +19%VAT

Venue

Congress Park Hanau
Schlossplatz 1
D-63450 Hanau
Germany



optence NETWORKING IN PHOTONICS **bayern photonics**
Innovationsnetz Optische Technologien

Members of OptecNet Deutschland e.V.

optecnet DEUTSCHLAND **Innovation Networks for Optical Technologies**

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Photonics HUB

Photonics Hub Symposium

Microdisplays



29th/30th October 2019

in Hanau, Germany

Microdisplays – Focus Topic AR/VR

Electronic components are getting smaller and lighter, but the customer expects brighter, larger and high-contrast displays in mobile phones, monitors, etc. One solution are microdisplays: small displays that are used with a magnifying lens system. Although microdisplays are small, they have a very large pixel density. High resolution and low power consumption are only two advantages of microdisplays. Their small screen sizes allow for their application e.g. in digital cameras and head-mounted displays.

The event will offer a platform to promote the **dialogue and discussion** between engineers, researchers and users in the field of innovative microdisplay technologies with a **focus on AR/VR applications**.

Session topics are:

- OLED displays
- microLED displays
- LCoS displays
- DLP displays
- AR/VR application

Our Exhibitors

bbs

DI OPTIC

HOLOEYE

Instrument
Systems
KONICA MINOLTA Group

optotune

soliton

THORLABS

Program | Tuesday 29th October 2019

11:00 **Welcome**

OLED Session

11:05 **OLED Microdisplays for Smart Eyewear and Sensing**

Dr. Uwe Vogel, Fraunhofer FEP

11:30 **Make it Bright – OLED at Merck**

Florian Maier-Flaig, Merck KGaA

11:55 **Microdisplays for Wearable Augmented Reality**

Gunter Haas, MICROOLED

12:20 **Lunch Break**

microLED Session

13:45 **High-resolution, active-matrix, 10- μ m pixel-pitch GaN LED microdisplays for Augmented Reality applications**

Dr. Ludovic Dupré, CEA Leti

14:10 **MicroLED Displays – Pathway Towards High Volume MOCVD Processing**

Prof. Dr. Michael Heuken, Aixtron SE

14:35 **GaN on Silicon-based MicroLEDs for Microdisplays**

Dr. Wei Sin Tan, Plessey Semiconductors

15:00 **Coffee Break**



Stromsparendes OLED-Mikrodisplay für Wearable-Anwendungen.
© Fraunhofer FEP, Fotografien: Anna Schroll

Courtesy of Fraunhofer FEP

Backend Processing Session

15:45 **Vacuum coating solutions for microLED/displays**

Dr. Stefan Seifried, Evatec AG

16:10 **Optical Testing of Microdisplays in Production and Laboratory**

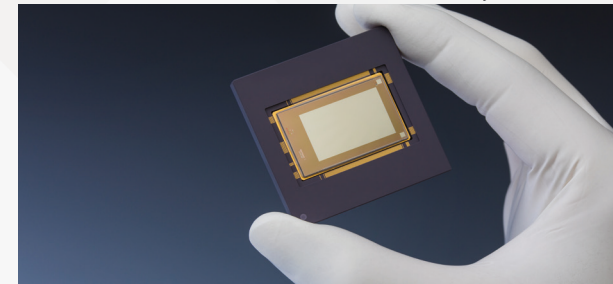
*Tobias Steinel, Instrument Systems
Optische Messtechnik GmbH*

16:35 **Tailored materials and processes for application in displays and microoptics**

Dr. Sönke Steenhusen, Fraunhofer ISC

18:00 **Dinner**

Courtesy of Fraunhofer IPMS



Program | Wednesday 30th October 2019

9:00 **Welcome**

DLP® Session

9:05 **Microdisplay technologies for projection and their characteristics**

Edmund Schaller, bbs bild- und lichtsysteme GmbH

9:30 **Pixel Shifting and Laser Speckle Reduction**

Mark Ventura, Optotune AG

9:55 **DLP – LED solutions for Pico Projection using etendue-matched micro displays**

Edwin van der Zwart, Luminus Devices, Inc.

10:20 **Coffee Break**

LCoS Session

11:00 **Analog Micro Mirror Arrays for Spatial Light Modulation**

Dr. Michael Wagner, Fraunhofer IPMS

11:25 **Holographic projection with microdisplays**

Martin Teich, SeeReal Technologies GmbH

11:50 **LCoS Microdisplay Technology in Photonics Applications**

Sven Krüger, HOLOEYE Photonics AG

12:15 **Lunch Break**

Application Session

13:45 **AR/VR/MR: Requirements, Challenges and Solutions**

*Prof. Dr. Karlheinz Blankenbach,
University of Applied Sciences Pforzheim*

14:10 **Solving the Vergence / Accommodation Conflict with Liquid Lenses**

Mark Ventura, Optotune AG

14:35 **Augmented reality in plant engineering: Use of smart glasses in after-sales service**

Nils Arnold, Adtance GmbH

15:00 **Augmented reality applications in logistics**

Tim Uhlott, Fraunhofer IML

15:30 **End of event**