



FRAUNHOFER INSTITUTE FOR MICROELECTRONIC CIRCUITS AND SYSTEMS IMS

MAY 7TH AND 8TH, 2019

9TH FRAUNHOFER IMS WORKSHOP



SEEING MORE THAN JUST PHOTONS

Workshop Fee

580,- € (Registration before April 8th, 2019) 730,- € (Registration before April 22nd, 2019)

The workshop fee includes refreshments, lunches, and the evening event on May 7^{th} , 2019.

Cancellations

Half of the payment will be reimbursed for cancellations received before April 26th, 2019. Later cancellations will not be reimbursed!

Terms of payment

After reception of the registration form an invoice will be sent to the participants and the fee has to be transferred under reference of the invoice number until April 26th, 2019. Payment by credit card is not possible.

Workshop Venue:

Contact at Fraunhofer IMS:

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Online registration:

 $https://www.ims.fraunhofer.de/en/Business_Units_and_Core_Competencies/CMOS_Image_Sensors/News/Workshop_CMOS.html$



Organization

The members of the Programme Committee are Mr. Werner Brockherde, Ms. Dr. Jennifer Ruskowski, and Ms. Anna Langnäse.

Workshop Venue

The workshop will be held at the Fraunhofer inHaus-Zentrum in Duisburg. This center is located downtown in Duisburg within 5 minutes walk from the Fraunhofer Institute and can be easily reached either from Duisburg Central Railway Station or from Duesseldorf International Airport.

Evening Event on May 7th, 2019

The dinner is going to take place at Landscape Park Duisburg-Nord, Emscherstraße 71, 47137 Duisburg.

A bus shuttle will be offered.

We thank all our sponsors









08:30 a.m.	Registration	& Refreshments

09:45 a.m. **Welcome** / Holger Vogt, Fraunhofer IMS

Automotive LiDAR I

10:00 a.m.	Flash LiDAR with CSPAD Arrays
	Jennifer Ruskowski, Fraunhofer IMS
10:40 a.m.	Components for LiDAR in Industrial
	and Automotive Applications
	Winfried Reeb & Jeff Britton, Laser Components

11:40 a.m. **Scanning Solid State LiDAR**

Michael Kiehn, IBEO Automotive

12:20 p.m. **LUNCH**

Automotive LiDAR II

01:50 p.m.	LiDAR Sensors for ADAS and AD
	Alexis Debray, Yole Développement SA
02:20 p.m.	LiDAR Receivers for Automotive Applications
	Marc Schillgalies, First Sensor AG
03:00 p.m.	CMOS SPAD Array for Flash LiDAR
	Ralf Kühnhold, ELMOS AG
03:40 n m	RREAK

Trends in CMOS Imaging I

04:10 p.m.	Inspection with in-line computational
	Imaging / Ernst Bodenstorfer, AIT
	Austrian Institute of Technology GmbH
04:50 p.m.	Backside Illumination Technology
	Stefan Dreiner, Fraunhofer IMS
as of 05:45 p.m.	Bus Transfer to Workshop Dinner

08:30 a.m. Good Morning Coffee

Trends in CMOS Imaging II

Datasheets and Real Performance	
	Datasneets and Real Performance

of CMOS Image Sensors

Albert Theuwissen, Harvest Imaging

09:40 a.m. CMOS SPAD Arrays for Fundamental Research

Peter Fischer, Universität Heidelberg

10:20 a.m. **BREAK**

Quantum Imaging

10:50 a.m.	Optical Imaging Based on
	Quantum Technologies
	Nils Trautmann, Carl Zeiss AG
11:30 a.m.	Ghost Imaging Using Entangled Pho

GO a.m. Ghost Imaging Using Entangled Photons
Dominik Walter, Fraunhofer IOSB

01:10 p.m. **LUNCH**

Image Sensors in Space

01:40 p.m.	ISS Rendezvous and Beyond – LiDAR Sensors
	in Space

Jakub Bikowski, Jena-Optronik GmbH

02:20 p.m. **Challenges for Optical Detectors in Space**

Dirk Viehmann, Airbus D+S

03:00 p.m. CMOS TDI Detector for Earth Observation

Stefan Gläsener, Fraunhofer IMS

as of 03:45 p.m Optional: Visit of Fraunhofer Wafer Fab

(subject to space availability)