

HOW TO REACH US

FRAUNHOFER INSTITUTE FOR  
ELECTRONIC NANO SYSTEMS ENAS

OCTOBER 24, 2018 | DORINT KONGESSHOTEL CHEMNITZ

# CHEMNITZER SEMINAR

## NANOMATERIAL INTEGRATION FOR ELECTRONICS AND SENSORS – READY FOR INDUSTRIAL APPLICATIONS

### Registration:

The registration is free of charge. Please send an e-mail for registration to [chemnitzer.seminare@enas.fraunhofer.de](mailto:chemnitzer.seminare@enas.fraunhofer.de) until October 10, 2018.

### Date and Location:

Wed, Oct 24, 2018, 9 am – 12 pm  
Dorint Kongresshotel Chemnitz  
Brückenstraße 19, 09111 Chemnitz  
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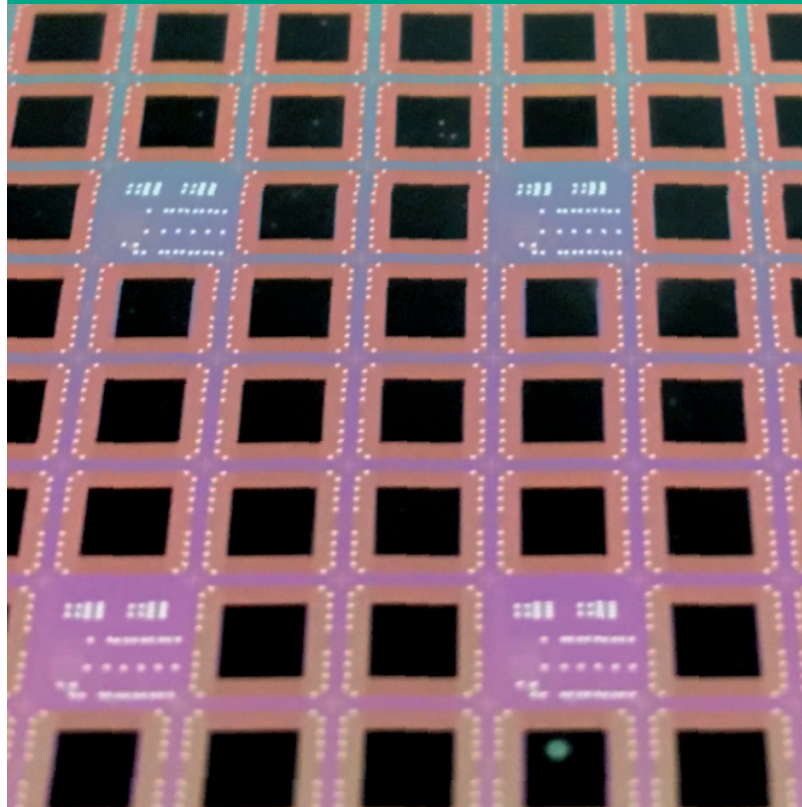
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### Organizer:

Fraunhofer Institute for Electronic Nano Systems ENAS  
Technologie-Campus 3 | 09126 Chemnitz | Germany  
[www.enas.fraunhofer.de](http://www.enas.fraunhofer.de)

Fraunhofer ENAS is participant in



# AGENDA

CHEMNITZER SEMINAR  
NANOTECHNOLOGY | NANOMATERIALS |  
NANORELIABILITY

## »NANOMATERIAL INTEGRATION FOR ELECTRONICS AND SENSORS – READY FOR INDUSTRIAL APPLICATIONS«

Nanomaterials and nanostructures increasingly contribute to decisive topics like energy efficiency, miniaturization, thermal management and multifunctionality in smart systems. However, industrial exploitation goes only along with R&D on scalable and compatible technologies. Therefore the 29th Chemnitzer Seminar is dedicated to an exchange on recent achievements on the integration of in particular Graphene and Carbon Nanotubes and to discuss about potential applications such as in IR sensors, electronics or energy storage.

The 29th Chemnitzer Seminar takes place in the scope of the Chemnitzer Fachtagung »Mikrosystemtechnik« and is an accompanied session on the second day of the event.

[www.tu-chemnitz.de/etit/mst/](http://www.tu-chemnitz.de/etit/mst/)



## WEDNESDAY OCTOBER 24, 2018

- 9:00 – 9:05 am **Welcome**  
Prof. Dr. Göran Herrmann, TU Chemnitz
- 9:05 – 9:35 am **Wafer-level technology for applications of Carbon Nanotubes**  
Dr. Sascha Hermann, Fraunhofer ENAS / TU Chemnitz
- 9:35 – 9:55 am **A robust and reliable MEMS-based IR source for the broader market**  
Philipp Schmatzer, Axetris AG
- 9:55 – 10:15 am **Directly produced semiconducting carbon nanotubes and their application**  
Dr. Victor Bezugly, Life Science Inkubator GmbH
- 10:15 – 10:35 am **New electrodes based on vertically aligned nanotubes for electricity storage: properties, applications and industrialisation**  
Dr. Pascal Boulanger, NAWA Technologies
- 10:35 – 11:05 am Coffee break with posters
- 11:05 – 11:25 am **Towards Nanoreliability: Characterisation of nanomaterials under relevant loading conditions**  
Prof. Bernhard Wunderle, TU Chemnitz
- 11:25 – 11:45 am **NDIR Gas Measurement in Harsh Environments by Advanced IR Components**  
Dr. Falk Liebold, Micro-Hybrid Electronic GmbH
- 11:45 – 12:05 pm **Towards the integration of graphene into microelectronics**  
Dr. Lukosius Mindaugas, IHP GmbH