

## HOW TO REACH US

FRAUNHOFER INSTITUTE FOR  
ELECTRONIC NANO SYSTEMS ENAS

JUNE 13 AND 14, 2017 | FRAUNHOFER ENAS  
TECHNOLOGIE-CAMPUS 3 | 09126 CHEMNITZ

## CHEMNITZER SEMINAR SYSTEM INTEGRATION TECHNOLOGIES

### Registration:

The registration is free of charge.

Please send an e-mail for registration to  
[events@enas.fraunhofer.de](mailto:events@enas.fraunhofer.de)  
until June 1, 2017.

### Hotel:

Until May 22, rooms in Hotel Chemnitzer Hof can be ordered by  
using the keyword: Seminar System Packaging.

single room (incl. breakfast): 68 EUR

double room (incl. breakfast): 99 EUR

Hotel Chemnitzer Hof, Theaterplatz 4, 09111 Chemnitz

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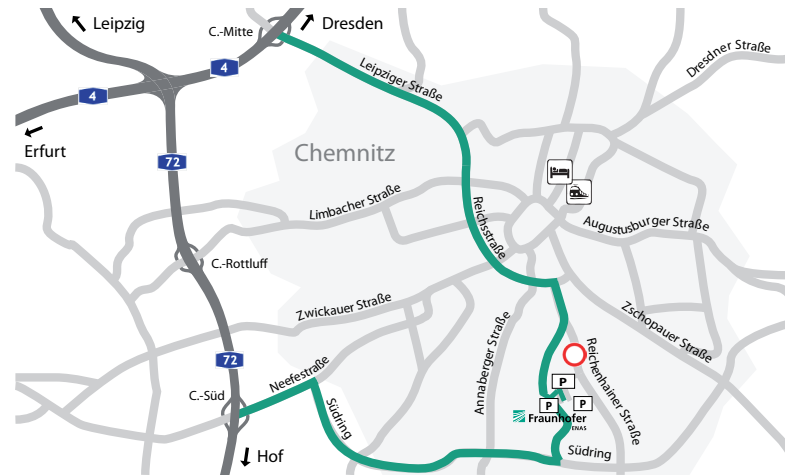
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Fraunhofer ENAS | Technologie-Campus 3 | 09126 Chemnitz

Attention – building site:

The access to Technologie-Campus is just possible via Bernsdorfer  
- Lutherstraße - Fraunhoferstraße.

Please follow the detour (yellow signs).

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# PROGRAM

CHEMNITZER SEMINAR  
NANOTECHNOLOGY | NANOMATERIALS |  
NANORELIABILITY



## CHEMNITZER SEMINAR »SYSTEM INTEGRATION TECHNOLOGIES«

Smart systems are becoming more and more important in our daily life, e.g. in cars, efficient energy management, security applications, medical engineering, logistics and other applications. A major bottleneck, however, is the packaging of the sensitive microstructures on different levels to allow them to withstand even harsh environments and meet market requirements. On this path, many unexpected challenges are encountered when interfacing the system structure to the outer world. The focus of the 27th Chemnitzer Seminar is to discuss topics like packaging technologies for MEMS and devices for medical applications. Furthermore an introduction to the New Zealand perspective in the field of smart systems will be given.

### TUESDAY JUNE 13, 2017

- 1:00 – 1:20 pm **Research activities at department system packaging – a project overview |** Dr. Maik Wiemer, Fraunhofer ENAS
- 1:20 – 1:50 pm **Smart sensor system for robotic applications |** Prof. Shuji Tanaka, Tohoku University
- 1:50 – 2:20 pm **Additive Manufacturing using biobased materials |** Prof. Henning Zeidler, Technische Universität Bergakademie Freiberg / Beckmann Institut für Technologieentwicklung e.V.
- 2:20 – 2:50 pm **Structuring and bonding of glass-wafer |** Dr. Anke Sanz-Velasco, IMT Masken und Teilungen AG
- 2:50 – 3:20 pm Coffee break and networking
- 3:20 – 3:50 pm **Character projection e-beam lithography for wafer level nano-fabrication |** Uwe Hübner, Leibniz-Institut für Photonische Technologien e.V.
- 3:50 – 4:20 pm **A New Zealand perspective – research, development and collaborative work with Fraunhofer ENAS |** Dr. Ian Woodhead, Lincoln Agritech Ltd.
- 4:20 – 4:50 pm **Secure Hardware Toolbox – Tamper respondent envelope solution by additive manufacturing |** Frank Roscher, Fraunhofer ENAS
- 4:50 – 5:20 pm **Possibilities for fruitful cooperations – High Performance Center for Functional Integration of Micro- and Nanoelectronics in Dresden and Chemnitz |** Prof. Stefan E. Schulz, Fraunhofer ENAS

### WEDNESDAY JUNE 14, 2017

- 9:00 – 9:10 am **Welcome |** Dr. Maik Wiemer, Fraunhofer ENAS
- 9:10 – 9:40 am **Advanced Packaging Technologies at Beijing University |** Prof. Yufeng Jin, Peking University
- 9:40 – 10:10 am **Highly miniaturized multi sensor system for biomedical applications |** Dr. Mario Baum, Fraunhofer ENAS
- 10:10 – 10:40 am **Ultrasound assisted micro-endoscopy for medical applications |** Dr. Nooshin Saeidi, Fraunhofer ENAS
- 10:40 – 11:10 am **Quality and innovation for neuroscientists and clinical professionals |** Dr. Rodrigo Sigala, eemagine Medical Imaging Solutions GmbH
- 11:10 – 12:00 am Early lunch and networking
- 12:00 – 12:30 pm **Features of Shinko advanced package and optical sensor developed with Fraunhofer ENAS |** Yuichiro Shimizu, Shinko Electric Industries Co., Ltd.
- 12:30 – 1:00 pm **Chronic wounds: current and future therapy options |** Dr. Roxane Schulten, Dr. Ausbüttel & Co. GmbH
- 1:00 – 1:30 pm Networking
- 1:30 – 2:00 pm Coffee break
- from 2:00 pm Individual Lab and Window Tours