

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
until June 1, 2017.

Hotel:

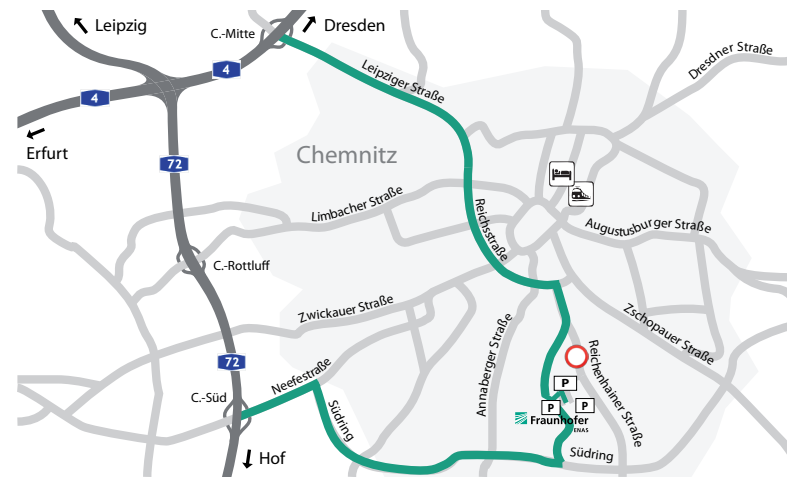
Until May 22, rooms in Hotel Chemnitzer Hof can be ordered by
using the keyword: Seminar System Packaging.
single room (incl. breakfast): 68 EUR
double room (incl. breakfast): 99 EUR
Hotel Chemnitzer Hof, Theaterplatz 4, 09111 Chemnitz
phone: +49 371 684-0 | info@chemnitzer-hof.de

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Fraunhofer ENAS | Technologie-Campus 3 | 09126 Chemnitz
Attention – building site:

The access to Technologie-Campus is just possible via Fraunhoferstraße. From direction of the city center, turn right after Suedbahnhof. From direction of A72, follow Neefestraße, turn right into Suedring and turn right into F.-O.-Schimmel-Straße. After the roundabout traffic you follow the Fraunhoferstraße.

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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 **MEMS technology requirements and challenges used in telecommunications** | Jide Liang, Huawei Technologies Düsseldorf GmbH
- 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 **Micromachined actuators and ultrasonic transducers – an industrial perspective** | Fabio Quaglia, STMicroelectronics
- 9:40 – 10:10 am **MEMS ultrasonic transducers (CMUT) and integrated electronics for medical ultrasound imaging** | Dr. Alessandro Stuart Savoia, Università degli Studi Roma Tre
- 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 **Highly miniaturized multi sensor system for biomedical applications** | Dr. Mario Baum, Fraunhofer ENAS
- 1:30 – 2:00 pm Coffee break and networking
- from 2:00 pm Individual Lab and Window Tours