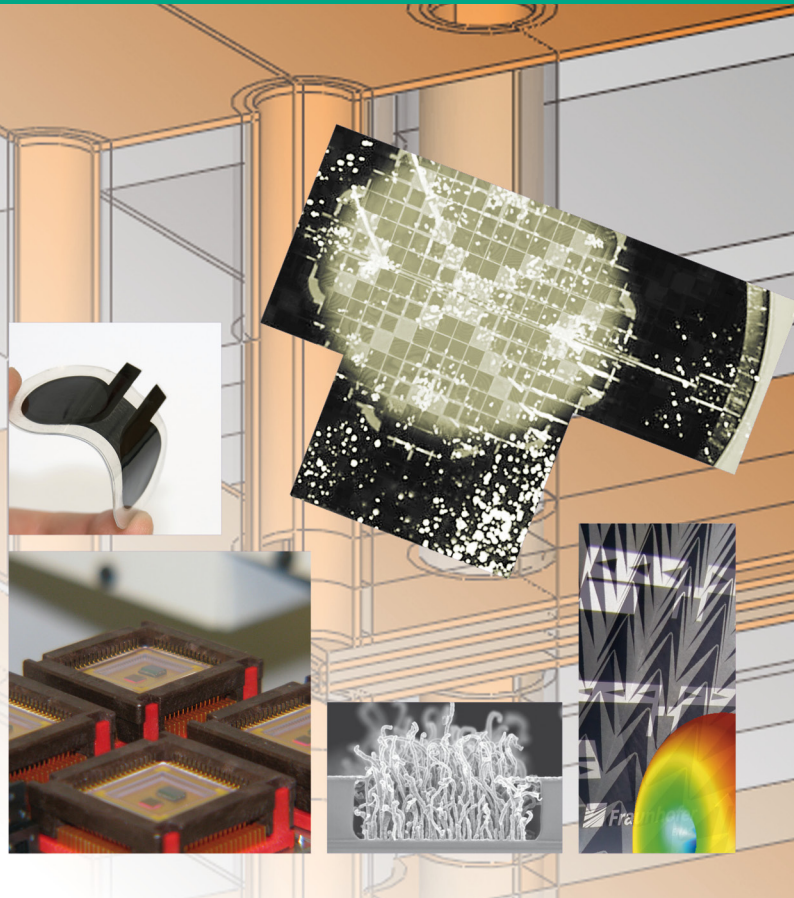


FRAUNHOFER INSTITUTE FOR  
ELECTRONIC NANO SYSTEMS ENAS

**10<sup>TH</sup> FRAUNHOFER SYMPOSIUM  
IN SENDAI, JAPAN  
NOVEMBER 26<sup>TH</sup>, 2014**



# 10<sup>TH</sup> FRAUNHOFER SYMPOSIUM IN SENDAI

## SMART SYSTEMS FOR A SECURE WORLD

### AGENDA

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.

The 10<sup>th</sup> Fraunhofer Symposium addresses especially smart systems for a secure world.

- 09:30 a.m. welcome and introduction  
Prof. Thomas Gessner (Director Fraunhofer ENAS, Fraunhofer Project Center at Tohoku University, Sendai)
- 09:40 a.m. greetings  
Mr. Yukimoto Ito (Vice Mayor City of Sendai)  
Prof. Susumu Satomi (President Tohoku University)  
Prof. Motoko Kotani (Executive Member of Council for Science, Technology and Innovation Japan; Director WPI-Advanced Institute for Materials Research, Tohoku University)
- 10:00 a.m. morning session
- 12:50 p.m. lunch break
- 14:00 p.m. afternoon session
- 16:50 p.m. poster session
- 18:00 p.m. reception

- 10:00 a.m. Keynote: Prof. Thomas Gessner (Fraunhofer ENAS; Fraunhofer Project Center at Tohoku University, Sendai)  
*Smart Monitoring Systems*
- 10:40 a.m. Keynote: Prof. Masayoshi Esashi (Micro Integration Center, Tohoku University; Fraunhofer Project Center at Tohoku University, Sendai), Kentaro Totsu (Micro Integration Center, Tohoku University)  
*MEMS Open Collaboration in Tohoku University*
- 11:20 a.m. Prof. Stefan Schulz (Fraunhofer ENAS); Dr. Knut Gottfried (Fraunhofer ENAS)  
*Integration of Carbon Nanotubes in CNT-FETs by using Wafer Level Approaches for High Frequency Analog Integrated Circuit Applications*
- 11:50 a.m. Dr. Maik Wiemer (Fraunhofer ENAS)  
*Release of High Thermal Energy Generated by Integrated Reactive Multilayer Systems*
- 12:20 p.m. Prof. Masanori Muroyama (Micro Integration Center, Tohoku University)  
*Microsystem Integration by MEMS and LSI Technologies for Smart and Secure Human Support Robots and Other Applications*
- 14:00 p.m. Keynote: Prof. Klaus-Dieter Lang (Fraunhofer IZM)  
*Integration Technologies for Cyber Physical Systems – Challenges and Solutions*
- 14:40 p.m. Keynote: Prof. Arnold van Zyl (President Technische Universität Chemnitz)  
*The Innovation Eco System in Chemnitz - Linking of Education, Research and Industry*
- 15:20 p.m. Prof. Shuji Tanaka (Micro/Nano Education Center, Tohoku University; Fraunhofer Project Center at Tohoku University, Sendai)  
*Advanced Piezoelectric Thin Films and Devices*
- 15:50 p.m. Mr. Andreas Ostmann (Fraunhofer IZM)  
*Embedding Technology - Today's Status and Future Applications*
- 16:20 p.m. Dr. Joerg Martin (Fraunhofer ENAS)  
*Sensor Integration for Structural Health Monitoring in Lightweight Structures*

## CONTACT

The Fraunhofer Symposium is held in cooperation with  
City of Sendai and Tohoku University



It is supported by MEMS Industry group



**MEMS Industry Group®**

The Fraunhofer Symposium takes place in:  
Sendai Sunplaza” Crystal Room  
<http://www.sendai-sunplaza.com/english/>

Registration:

For registration, please send an e-mail to Mrs. Nao Tomita  
[tomita@fraunhofer.jp](mailto:tomita@fraunhofer.jp)