



Fraunhofer

ENAS

IN COOPERATION WITH



13TH FRAUNHOFER SYMPOSIUM IN SENDAI
APRIL 15TH, 2019 | SAKURA HALL

SMART SOCIETY 5.0 AND INDUSTRY 4.0



- 9:20 a.m. **Opening Address**
Hideya Miki, Fraunhofer Representative Office Japan
- 09:30 a.m. **Welcome**
Prof. Motoko Kotani, Executive Member Science Counsel Japan and Director WPI-Advanced Institute for Materials Research, Tohoku University;
Prof. Masayoshi Esashi, Tohoku University
- 9:40 a.m. **Smart Systems for Industry 4.0**
Prof. Thomas Otto, Fraunhofer ENAS
- 10:10 a.m. **Proposal and Social Implementation of Edge Heavy Sensing Framework Based on Micro-technology in the AI Era**
Assoc. Prof. Masanori Muroyama, Tohoku University
- 10:40 a.m. Break
- 11:10 a.m. **Building Digital Ecosystems: The Industry 4.0 Reference Software Platform**
Dr. Jens Heidrich, Fraunhofer IESE
- 11:40 a.m. **Micro/nanomechanical Systems for Ultrasensitive Sensing**
Prof. Takahito Ono, Tohoku University
- 12:10 p.m. **Development of Biodegradable Electronic Components using Printing Technologies**
Dr. Maik Wiemer, Fraunhofer ENAS
- 12:40 p.m. Lunch break
- 1:40 p.m. **Three-Dimensional Shape Measurement using Multi-Channel VCSEL Array**
Tatsuya Shimokawa, Suguru Sangu, Ricoh Company, Ltd.
- 2:10 p.m. **3D-Printing and System Integration of Polymer based Optics for Advanced Illumination Applications**
Dr. Erik Beckert, Fraunhofer IOF
- 2:40 p.m. **Collaboration between Mathematical Science and Clinical Medicine**
Prof. Hiroshi Suito, Tohoku University
- 3:10 p.m. **Fraunhofer Lighthouse Project »Theranostic Implants« Focus on active implants, MEMS, Organ on a Chip**
Dr. Thomas Velten, Fraunhofer IBMT
- 3:40 p.m. Break
- 4:10 p.m. **Open Collaboration based on Sharing Facility for MEMS**
Assoc. Prof. Kentaro Totsu, Dr. Masaaki Moriyama, Prof. Masayoshi Esashi, Tohoku University
- 4:40 p.m. **Research Fab Microelectronics Germany**
Joerg Amelung, FMD
- 5:10 p.m. **Industry-Relevant Research and Development in S. Tanaka Laboratory**
Prof. Shuji Tanaka, Tohoku University
- 6:00 p.m. Reception

REGISTRATION

Please fill in the form and send it as e-mail to iac@grp.tohoku.ac.jp, or office-support@fraunhofer.jp, or joerg.froemel.e5@tohoku.ac.jp | fax: +81 22 795 6259

I will attend in

Symposium

Lunch

Reception

(Lunch buffet and reception are free of charge.)

Contact details

Mr.

Mrs.

Name, Surname

Affiliation

Address (Street, ZIP, City, Country)

E-Mail

Phone

The Fraunhofer Symposium is held in cooperation with Tohoku University and takes place in the Sakura Hall

www.tohoku.ac.jp/en/about/facilities/conferences_events/214_sakura_hall.html

It is organized by Fraunhofer ENAS (Germany) in cooperation with the Fraunhofer Project Center »NEMS/MEMS devices and manufacturing technologies at Tohoku University«, the Fraunhofer Representative Office Japan in Tokyo and the Micro System Integration Center, Tohoku University.