

SESSION 3: SYSTEM INTEGRATION TECHNOLOGIES

Wed, July 11, 1:00 to 2:15 pm

- 1:00 Research Fab Microelectronics Germany
Jörg Amelung, Managing Director
- 1:15 Flexible hybrid integration: an IoT
Enabler
Dr. Ronnie Bose, Fraunhofer EMFT
- 1:30 Electrochemical Corrosion in Power
Modules due to Harsh Environments
Christoph F. Bayer, Fraunhofer IISB
- 1:45 Wafer Level Packaging and System
Integration
M. Jürgen Wolf, Fraunhofer IZM-ASSID, Head of
Department
- 2:00 3D Sensor and MEMS Packaging at
Wafer Level
Kai Zoschke, Fraunhofer IZM

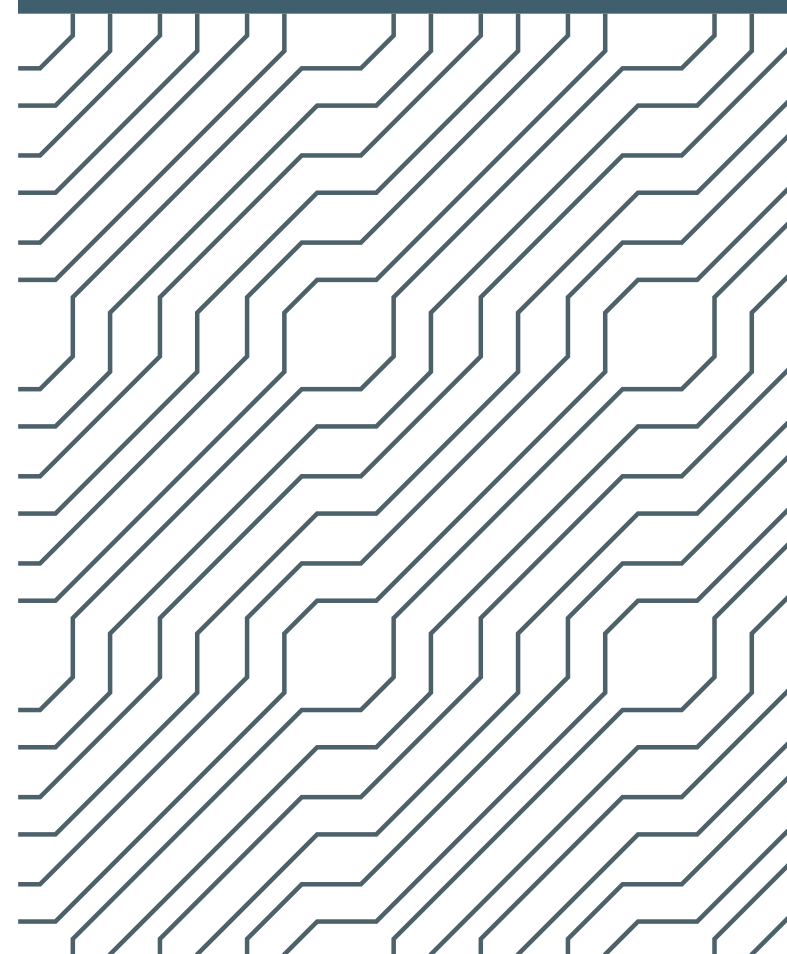
SESSION 4: COMMUNICATION TECHNOLOGIES

Thu, July 12, 11:00 to 12:00 am

- 11:00 Research Fab Microelectronics Germany
Jörg Amelung, Managing Director
- 11:15 Photonic Systems for Massive
Communication
Prof. Hubert Lakner, Chairman Fraunhofer Group
for Microelectronics
- 11:30 Connectivity for IoT and Automotive
Josef Sauerer, Fraunhofer IIS

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Keynote Sessions



Program

SESSION 1: POWER ELECTRONICS

SESSION 2: SMART SENSOR SYSTEMS

Tue, July 10, 1:00 to 2:15 pm

- 1:00 Research Fab Microelectronics Germany
Jörg Amelung, Managing Director
- 1:15 Integration Technologies for Power Modules
Prof. Klaus-Dieter Lang, Head of Institute
Fraunhofer IZM
- 1:30 Modular System Integration of Energy Harvesters and Ultra Low Power Components Towards a Zero Power IoT
Prof. Hubert Lakner, Chairman Fraunhofer Group for Microelectronics
- 1:45 Power Electronics Packaging at Fraunhofer IISB – Double Sided Cooling, Ceramic Embedding, and more
Christoph F. Bayer, Fraunhofer IISB
- 2:00 FEM-Simulation in Designing new Power Modules
Christoph F. Bayer, Fraunhofer IISB

Wed, July 11, 11:00 am to 12:15 pm

- 11:00 Research Fab Microelectronics Germany
Prof. Hubert Lakner, Chairman Fraunhofer Group for Microelectronics
- 11:15 Sensors for the Internet of Things
Prof. Christoph Kutter, Director Fraunhofer EMFT
- 11:30 Predictive Maintenance – an Industry 4.0 Project with a Fraunhofer Performance Center
David Hacker, Edwards
- 11:45 Advanced Sensor Systems for Condition Monitoring in industrial applications
Prof. Stefan E. Schulz, Deputy Director
Fraunhofer ENAS
- 12:00 MEMS Technology for Smart Optical Sensors
Dr. Matthias Baus, Fraunhofer IMS

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