

Post ECOC Workshop 2016

Network Systems and Devices for IoT Era

Date: 23 September 2016

Time: 9:45 AM - 6:00 PM

Venue: Karlsruhe Institute of Technology (KIT), Hector Auditorium, Karlsruhe, Germany

Registration: <https://ws.formzu.net/fgen/S7042918> (Deadline: 14 September 2016)

Organizers:

Christian Koos (KIT, Local host)		
Naoto Kobayashi (Waseda Univ.)	Jürg Leuthold (ETH)	Shu Namiki (AIST)
Sebastian Randel (KIT)	Koji Yamada (AIST)	Lars Zimmermann (IHP)

Financial Support : · Helmholtz International Research School for Teratronics (HIRST)
· Alfred Krupp von Bohlen und Halbach-Stiftung

Organizing Support : · Institute of Photonics and Quantum Electronics (IPQ), KIT
· Institute of Microstructure Technology (IMT), KIT
· Vertically Integrated Center for Technologies of Optical Routing toward Ideal Energy Saving (VICTORIES), National Institute of Advanced Industrial Science and Technology (AIST) / MEXT Japan

Program:

9:45	Opening: <i>Naoto Kobayashi, Waseda Univ.</i> “History of Post ECOC WS”	Masahiko Mori, AIST
10:00	Session 1: Network systems <i>Masamichi Fujiwara, NTT</i> “Burst-Mode Optical Amplifier Technologies and Their Applications, Ranging from Long-Reach to Digital Coherent PON Systems.” <i>Helmut Grieser, ADVA</i> “Trends for high-speed data center interconnections.” <i>Oded Raz, TU/e</i> “The next dimension in optical interconnects, towards the ultimate packaging solutions” <i>Takayuki Kurosu, AIST</i> “What is the true value of dynamic optical path switching?”	Jürg Leuthold, ETH
12:00	Lunch & Lab tour	
13:45	Session 2: Photonic Devices <i>Jean Fompeyrine, IBM</i> “BTO integration on SiGe platform” <i>Christian Koos, KIT</i> “Photonic multi-chip integration using 3D laser lithography” <i>Gunther Roelkens, Ghent Univ.</i> “III-V-on-silicon photonic integrated circuits for optical communication applications” <i>Stefan Meister, Sicoya</i> “High-speed transceivers for data-centers based on photonic-electronic integration”	Koji Yamada, AIST
15:45	Break (15 min.)	
16:00	Session 3: Transmission Technology <i>Sebastian Randel, KIT</i> “Algorithms for High-Speed Optical Transceivers” <i>Andrew Ellis, Aston University</i> “Recent advances in nonlinearity compensation” <i>Takehiro Tsuritani, KDDI</i> “Ultrahigh capacity SDM/WDM transmission over multicore and multimode fibers” <i>Jürg Leuthold, ETH Zurich</i> “Constellation Mapping - a Technique to Improve the Spectral Efficiency”	Christian Koos, KIT
18:00	Closing: (Those interested in the “INFORMAL” dinner will be escorted to the restaurant. Own charge €29.)	Christian Koos, KIT