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)
· Alfried 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:**   **Masahiko Mori, AIST**

Naoto Kobayashi, Waseda Univ.
"History of Post ECOC WS"

10:00 Session 1: Network systems   **Jürg Leuthold, ETH**

Masamichi Fujiwara, NTT
"Burst-Mode Optical Amplifier Technologies and Their Applications, Ranging from Long-Reach to Digital Coherent PON Systems."
Helmut Grießer, ADVA
"Trends for high-speed data center interconnections."
Oded Raz, TU/e
"The next dimension in optical interconnects, towards the ultimate packaging solutions"
Takayuki Kurosu, AIST
"What is the true value of dynamic optical path switching?"

12:00 Lunch & Lab tour

13:45 Session 2: Photonic Devices   **Koji Yamada, AIST**

Jean Fompeyrine, IBM
"BTO integration on SiGe platform"
Christian Koos, KIT
"Photonic multi-chip integration using 3D laser lithography"
Gunther Roelkens, Ghent Univ.
"III-V-on-silicon photonic integrated circuits for optical communication applications"
Stefan Meister, Sicoya
"High-speed transceivers for data-centers based on photonic-electronic integration"

15:45 Break (15 min.)

16:00 Session 3: Transmission Technology   **Christian Koos, KIT**

Sebastian Randel, KIT
"Algorithms for High-Speed Optical Transceivers"
Andrew Ellis, Aston University
"Recent advances in nonlinearity compensation"
Takehiro Tsuritani, KDDI
"Ultrahigh capacity SDM/WDM transmission over multicore and mutimode fibers"
Jürg Leuthold, ETH Zurich
"Constellation Mapping - a Technique to Improve the Sectral Efficiency"

18:00 Closing: **Christian Koos, KIT**

(Those interested in the "INFORMAL" dinner will be escorted to the restaurant. Own charge €29.)

Participation fee:

Workshop : Free

Dinner : €29.00 (to be collected at the registration desk)

Venue:

Karlsruhe Institute of Technology (KIT)

Hector Auditorium, International Department, KIT

Schlossplatz 19, Bldg. 02.95, 76131 Karlsruhe, Germany

KIT Interactive Campus Map:

URL: http://www.kit.edu/campusplan/index_en.php?id=02.95

Access to KIT:

URL: http://www.kit.edu/kit/english/directions.php

See "Campus South"

Registration:

URL: https://ws.formzu.net/fgen/S7042918

Deadline: 14 September, 2016

Contact:

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