

Commission D (Electronics and Photonics) Activity Report

April 2015-July 2015

July 29, 2015

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1. Commission Activities

URSI-JRSM 2015: From commission D, an invited talk was finalized; “Multi-port Power Router and Its Impact on Internet of Energy,” by Prof. Yuichi Kado (Graduate School of Science and Technology, Kyoto Institute of Technology).

2. Domestic activities related to areas covered by Commission D

Technical Committee on Microwave Photonics (IEICE)

Following technical meeting was held on May 25, 2014 (Tokyo). Specific subject was “Social ICT system and its trend in pragmatic application for society”. Three invited talks were presented, that were entitled on “Development of the decision support system for the localized torrential rainfall and Demonstration test in Kobe city”, “Life-Management Platform using Social ICT” and “Radio-On-Demand (ROD) Networks for Green Wireless Access”. Several regular contributions were also presented related to functional devices for terahertz detector and waveguide, fiber-millimeter-wave system, millimeter-wave radio network for train to ground communication system, radio-over-fiber system, etc. The committee chair was Prof. Katsumi Iwatsuki, Tohoku Univ., who is a member on Japan Commission D.

Another meeting was held on July 16-17 (Kushiro). (jointly held with related technical committees referring to light-wave and radio-wave workshop). Several papers related to following technical topics were presented: Millimeter and terahertz wave integrated circuits, photonic technology for microwave and millimeter-wave heterogeneous network, etc. The committee chair was Prof. Yuich Kado, Kyoto Inst. of Tech., who is a member on Japan Commission D.