

International Symposium on Photonics and Electronics Science and Engineering 2016

March 11 (Fri), 2016

Katsura-Hall, Katsura-Campus, Kyoto University, Kyoto, Japan

Opening (10:00 - 10:15)

10:00-10:05 Opening

10:05-10:15 Overview of Photonics and Electronics Science and Engineering
Susumu Noda and Tsunenobu Kimoto (Kyoto University)

Session 1: Photonics (10:15 - 12:05)

10:15-10:45 Manipulating Light with Plasmonic Metasurfaces: Orbital Angular Momentum
and Beyond (invited)

Jeremy Upham (University of Ottawa, Canada)

10:45-11:10 Recent Progress of Photonic Crystals

Takashi Asano and Susumu Noda (Kyoto University)

11:10-11:40 Quantum Optical Measurement and Control (invited)

Hidehiro Yonezawa (The University of New South Wales, Australia)

11:40-12:05 Optical Quantum Circuits

Ryo Okamoto (Kyoto University)

Lunch (12:05 - 13:00)

Poster Session (13:00 - 14:20)

Session 2: Electronics (14:30 - 16:20)

14:30-15:00 Isotopic Control for Ultimate Material Properties of SiC (invited)

Erik Janzén (Linköping University, Sweden)

15:00-15:25 Control of Carbon Vacancy in SiC toward Ultrahigh-Voltage Power Devices

Tsunenobu Kimoto and Jun Suda (Kyoto University)

15:25-15:55 SPM Based Electrical Characterization Techniques for Semiconductors - Demonstrated
for SiC Devices (invited)

Thilo Glatzel (University of Basel, Switzerland)

15:55-16:20 Visualization of Carrier Dynamics in Organic Thin-Film Transistors Using Time-Resolved
Scanning Probe Microscopy (tr-SPM) Techniques

Kei Kobayashi (Kyoto University)

Break (16:20-16:35)

Session 3: Fundamentals (16:35 - 17:30)

16:35-17:05 Innovation in Biomagnetism through Optically Pumped Magnetometers (invited)

Tilmann Sander-Thommes (Physikalisch-Technische Bundesanstalt, Germany)

17:05-17:30 An Optically Pumped K-Rb Hybrid Atomic Magnetometer and Its Application

Yosuke Ito (Kyoto University)

Closing (17:30 - 17:40)