

JSAP-OSA Joint Symposia 2015

OSA President Special Lecture

Date: Sept. 15 (Tue.) 1:45 pm -2:45 pm

Location: Room 2C, 2F Bldg. 2

Lecturer: Philip Russell (Max-Planck-Institute for the Science of Light)

Title: Intense light-matter interactions in photonic crystal and microstructured fibres

Sessions

4. JSAP-OSA Joint Symposia 2015			
9/14 (Mon.)	9:30 – 11:30	Poster Session	PB (Shirotori Hall)
4.1 Plasmonics		Organizer: Prabhat Verma (Osaka Univ.)	
9/13 (Sun.)	9:00 – 17:45	Oral Session	Room 2C
9/14 (Mon.)	9:00 – 12:15	Oral Session	Room 2C
4.2 Bio- and Medical Photonics		Organizers: Katsumasa Fujita (Osaka Univ.) Yuji Matsuura (Tohoku Univ.)	
9/16 (Wed.)	9:15 – 17:00	Oral Session	Room 2C
4.3 Optical Micro-sensing, Manipulation, and Fabrications		Organizer: Tsutomu Shimura (The Univ. of Tokyo)	
9/14 (Mon.)	13:45 – 18:00	Oral Session	Room 2C
4.4 Opto-electronics		Organizer: Kazuhiko Shimomura (Sophia Univ.)	
9/14 (Mon.)	13:45 – 19:45	Oral Session	Room 2D
4.5 Information Photonics		Organizer: Ryoichi Horisaki (Osaka Univ.)	
9/15 (Tue.)	13:45 – 19:45	Oral Session	Room 2C
4.6 Nanocarbon and 2D materials photonics		Organizers: Kazunari Matsuda (Kyoto Univ.), Yuhei Miyauchi (Kyoto Univ.)	
9/15 (Tue.)	9:30 – 17:45	Oral Session	Room 2D
4.7 Terahertz Photonics		Organizer: Toshihiko Kiwa (Okayama Univ.)	
9/15 (Tue.)	9:00 – 18:45	Oral Session	Room 2E

The detailed program of each session can be found on p.77-81

Invited Talks

4.1 Plasmonics				
Date	Hours	Room	Title	Speaker
9/13 (Sun.)	9:00-9:30	2C	New Development of Plasmonics Towards High-Efficiency Light-Emitting Devices	Koichi Okamoto (Kyushu Univ.)
	10:45-11:15		Manipulating Focusing and polarizing in Plasmonic Nanostructures	Xing Zhu (Peking University)
	13:45-14:15		Plasmonically Controlled Lasing in Metallic-Dielectric Core-Shell Nanoparticles	Koji Fujita (Kyoto Univ.)
9/14 (Mon.)	9:00-9:30	2C	Subwavelength Spot and Ultra-resolution Imaging	Zexiang Shen (Nanyang Technological Univ.)
	10:45-11:15		Circular Polarization Control Using Metallic Artificial Structures	Kuniaki Konishi (Univ. of Tokyo)

JSAP-OSA Joint Symposia 2015 (continued)

Invited Talks (continued)

4.2 Bio- and Medical Photonics				
Date	Hours	Room	Title	Speaker
9/16 (Wed.)	9:15-9:45	2C	Super-resolution optical fluctuation imaging with high spatiotemporal resolution	Peng Xi (Peking Univ.)
	10:45-11:15		Adaptive optics for super-resolution microscopy	Martin Booth (Univ. of Oxford)
	13:45-14:15		Application of fluorescent diamond nanoparticles to bio-imaging	Yoshie Harada (Kyoto Univ.)
	15:30-16:00		Controlling cells function by light technology	Toshihiro Kushibiki (Nat. Defense Med. College)

4.3 Optical Micro-sensing, Manipulation, and Fabrications				
Date	Hours	Room	Title	Speaker
9/14 (Mon.)	13:45-14:15	2C	How Optical/Biophysical Complements Biochemical Characterizations in Cellular Mechanobiology?	Arthur Chiou (National Yang-Ming Univ.)
	14:45-15:15		Biomolecular sensing with <i>in-situ</i> computation by photonic DNA computing	Yusuke Ogura (Osaka Univ.)
	16:15-16:45		Casimir forces between micromechanical components on a silicon chip	Ho Bun Chan (Hong Kong Univ. of Science and Technology)
	16:45-17:15		Near-field multi-probe diagnosis of subwavelength-scale optoelectronics functionalities	Hirokazu Hori (Univ. Yamanashi)

4.4 Opto-electronics				
Date	Hours	Room	Title	Speaker
9/14 (Mon.)	13:45-14:15	2D	Semiconductor Membrane Lasers toward On-chip Optical Interconnects	Shigehisa Arai (Tokyo Inst. of Tech.)
	14:15-14:45		Performance Analysis of Light-Emitting Diodes by Optoelectronic Characterizations	Dong-Soo Shin (Hanyang Univ.)
	16:45-17:15		Directly Modulated Membrane Lasers on Si	Shinji Matsuo (NTT Corporation)
	17:15-17:45		Nonlinear microresonators: towards integrated ultrafast optical clocks	Sai Tak Chu (City Univ. of Hong Kong)

4.5 Information Photonics				
Date	Hours	Room	Title	Speaker
9/15 (Tue.)	15:00-15:30	2C	Subwavelength light focusing and imaging via wavefront shaping	YongKeun Park (KAIST)
	16:45-17:15		Ultrasensitive denoising imaging	Guang-Jie Zhai (Chinese Academy of Sciences)
	17:30-18:00		Researches for ultra-realistic communication system in NICT	Kenji Yamamoto (NICT)
	19:15-19:45		Light field Vision - Light field imaging and its applications for scene understanding-	Nagahara Hajime (Kyushu Univ.)

JSAP-OSA Joint Symposia 2015 (continued)

Invited Talks (continued)

4.6 Nanocarbon and 2D materials photonics				
Date	Hours	Room	Title	Speaker
9/15 (Tue.)	9:30-10:00	2D	Nanocarbon-based light emitters for integrated optoelectronics and optical communications	Hideyuki Maki (Keio Univ.)
	11:00-11:30		Plasmon damping in graphene	Hugen Yan (Fudan Univ.)
	15:00-15:30		Valleytronic properties and devices in 2D crystals	Yoshihiro Iwasa (Univ. of Tokyo)
	16:30-17:00		Photonics of two-dimensional materials beyond graphene	Qiaoliang Bao (Monash Univ. & Melbourne Centre for Nanofabrication)

4.7 Terahertz Photonics				
Date	Hours	Room	Title	Speaker
9/15 (Tue.)	9:00-9:30	2E	Injection seeded THz spectrometer for mail inspection	Kodo Kawase (Nagoya Univ.)
	9:30-10:00		Near-field Scanning Terahertz Microscopy of Metasurface	Jiaguang Han (Tianjin Univ.)
	15:00-15:30		Laser Terahertz Emission Microscope	Masayoshi Tonouchi (Osaka Univ.)
	15:30-16:00		Terahertz Cancer Imaging: Challenges and Opportunities	Joo-Hiuk Son (Univ. of Seoul)

Invited Lectures of Overseas Researchers

Date	Hours	Room	Title	Speaker
9/13 (Sun.)	8. Plasma Electronics			
	13:00-13:45	1F	Evolution of Electron Density and Temperature in the Afterglow of Low Pressure Argon Discharges	Yi-Kang Pu (Tsinghua Univ.)
	8. Plasma Electronics			
	13:45-14:30	1F	Integrated Approaches for Surface Chemistry Control in Plasma Processing	Peter L. G. Ventzek (Tokyo Electron America Inc.)
9/15 (Tue.)	6. Thin Films and Surfaces			
	9:00-9:45	2J	Development of MgB ₂ composites by spark plasma sintering as a superconductor and as a novel material for biomedical applications	Petre Badica (National Inst. of Materials Physics)

English Sessions

8.0 Plasma Electronics English Session			
9/13 (Sun.)	14:30 – 18:45	Oral Session	Room 1F
13.6 Semiconductor English Session			
9/13 (Sun.)	9:30 – 11:30	Poster Session	PB (Shirotori Hall)
9/14 (Mon.)	9:00 – 10:00	Oral Session	Room 2D
Symposium “Asian Joint Symposium on Nanobiotechnology”			
9/13 (Sun.)	16:00 – 18:00	Poster Session	PB (Shirotori Hall)
9/14 (Mon.)	9:00 – 18:30	Oral Session	Room 3A
Symposium “International Symposium on Thin Film Technologies for Flexible Devices”			
9/14 (Mon.)	9:00 – 17:00	Oral Session	Room 1A

In Category 10 “Spintronics and Magnetism”, more than half of the presentations will be in English.

10 Spintronics and Magnetism			
9/13 (Sun.)	13:30 – 15:30	Poster Session	PA (Event Hall)
10.1 Emerging materials in spintronics and magnetism (excluding semiconductors)			
9/13 (Sun.)	9:00 – 12:00	Oral Session	Room 2J
9/13 (Sun.)	16:00 – 17:45	Oral Session	Room 2J
10.2 Spin torque, spin current, circuits, and measurement technologies			
9/14 (Mon.)	15:00 – 18:45	Oral Session	Room 2J
9/15 (Tue.)	9:00 – 11:45	Oral Session	Room 3A
10.3 Giant magnetoresistance (GMR), tunnel magnetoresistance(TMR) and magnetic recording technologies			
9/14 (Mon.)	9:00 – 14:45	Oral Session	Room 2J
10.4 Semiconductors, organic, optical, and quantum spintronics			
9/16 (Wed.)	9:00 – 17:00	Oral Session	Room 3A
10.5 Application of magnetic field			
9/14 (Mon.)	13:45 – 15:45	Oral Session	Room 4B