

JSAP-OSA Joint Symposia 2017

OSA Vice President Special Lecture

Date : Sept. 6 (Wed.), 2017 13:15~14:15

Venue : Room A410

Speaker : Ursula Gibson (Norwegian Univ. of Sci. and Tech.)

Title : Semiconductor core fibers for optoelectronics

Session Schedule ※Session Programs are on 62-67.

4 JSAP-OSA Joint Symposia 2017 Poster Session			
9/8 (Fri.)	9:30 – 11:30	Poster	PB (Kokusai Center 2F)
4.1 Plasmonics		Organizer : Prabhat Verma (Osaka Univ.)	
9/5 (Tue.)	9:00 – 17:45	Oral	Room A410
9/6 (Wed.)	9:00 – 11:45	Oral	Room A410
4.2 Bio- and Medical Photonics		Organizer : Yuji Matsuura (Tohoku Univ.) / Izumi Nishidate (Tokyo Univ. of Agri. And Tech.) , Nicholas I Smith (Osaka Univ.)	
9/5 (Tue.)	13:15 – 16:45	Oral	Room A409
4.3 Nano-and Micro Photonics		Organizer : Tsutomu Shimura (Univ. of Tokyo)	
9/8 (Fri.)	9:00 – 12:45	Oral	Room A409
4.4 Opto-electronics		Organizer : Hiroyuki Ishii (NTT)	
9/6 (Wed.)	13:15 – 18:15	Oral	Room A410
4.5 Information Photonics *Organized as a code-sharing session with 3.3 Information and image engineering		Organizer : Ryoichi Horisaki (Osaka Univ.) / Hirotsugu Yamamoto (Utsunomiya Univ.)	
9/5 (Tue.)	17:15 – 18:30	Oral	Room A413
9/6 (Wed.)	9:00 – 17:15	Oral	Room A409
4.6 Nanocarbon and 2D Materials		Organizer : Kazunari Matsuda (Kyoto Univ.) / Yuhei Miyauchi (Kyoto Univ.)	
9/7 (Thu.)	9:00 – 16:15	Oral	Room A404
4.7 Terahertz Photonics		Organizer : Toshihiko Kiwa (Okayama Univ.)	
9/7 (Thu.)	9:00 – 15:00	Oral	Room A409
※Code-sharing session with 3.9 Terahertz technologies			
9/7 (Thu.)	15:15 – 16:45	Oral	Room A409
4.8 Strong Light Excitation Phenomena Applied to Materials and Bio Engineering		Organizer : Masaaki Sakakura (Kyoto Univ.) / Yoichiro Hosokawa (NAIST)	
9/8 (Fri.)	13:15 – 17:00	Oral	Room A410
4.9 Quantum Optics		Organizer : Takashige Omatsu (Chiba Univ.) / Takuya Hirano (Gakushuin Univ.)	
9/7 (Thu.)	13:15 – 16:45	Oral	Room A410



JSAP-OSA Joint Symposia are all-English sessions.

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Invited Speakers

■ OSA Vice President Special Lecture

Date	Hour	Room	Title	Speaker
9/6 (Wed.)	13:15~14:15	A410	Semiconductor core fibers for optoelectronics	Ursula Gibson (Norwegian Univ. of Sci. and Tech.)

■ 4.1 Plasmnics

Date	Hour	Room	Title	Speaker
9/5 (Tue.)	9:00~9:30	A 410	Imaging Chiral Plasmons	Hiromi Okamoto (Inst. for Mol. Sci.)
	10:45~11:15		Deep-UV Surface Plasmon for Bio-Imaging	Yoshimasa Kawata (Shizuoka Univ.)
	13:15~13:45		Electrical Switching Triggered by Plasmonic Nanoheater	Wakana Kubo (Tokyo Univ. of Agri. and Tech)
	15:45~16:15		Nonlinear Optical Mapping and Spectroscopy of Gap Plasmons in Single Plasmonic Golden Junctions	Dangyuan Lei (Hong Kong Polytechnic Univ.)
9/6 (Wed.)	9:00~9:30	A410	Surface Enhanced Raman Spectroscopic Studies using Galvanic Nano-buds	Siva Umapathy (Indian Inst. of Sci.)

■ 4.2 Bio-and Medical Photonics

Date	Hour	Room	Title	Speaker
9/5 (Tue.)	13:15~13:45	A409	Fiber-Assisted Fluorescence Spectral Endoscope	Takashi Katagiri (Tohoku Univ.)
	15:00~15:30		Near Infrared Active Nanomaterials for the Theragnosis of Tumors In Vivo	Tzu-Ming Liu (Univ. of Macau.)

■ 4.3 Nano- and Micro-Photonics

Date	Hour	Room	Title	Speaker
9/8 (Fri.)	9:45~10:15	A409	Metamaterial absorbers and thier applications	Takuo Tanaka (RIKEN)
	10:15~10:45		Analytical formulation for field enhancement of gold bipyramids and hemispherically capped cylinders for application in two-photon luminescence and scattering	James W. M. Chon (Swinburne Univ. of Tech.)
	11:45~12:15		A Challenge to Tunable Metamaterial Optical Retarder: Au Nanograting and its Integration with Microelectromechanical Actuators	Kentaro Iwami (Tohoku Univ.)
	12:15~12:45		Optical metasurface for the creation and application of surface plasmon vortices	Chen-Bin (Robin) Huang (Nat. Tsing Hua Univ.)

■ 4.4 Opto-electronics

Date	Hour	Room	Title	Speaker
9/6 (Wed.)	14:15~14:45	A410	Very Small Lasers and Resonators	Yong-Hee Le (KAIST)
	14:45~15:15		Progress of Hybrid III-V Lasers on Si and SOI substrates	Nobuhiko Nishiyama (Tokyo Tech.)
	16:00~16:30		Silicon Photonic Devices	Tao Chu (Zhejiang Univ.)
	16:30~17:00		Heterogeneous Lasers with Silicon Photonic External Cavity	Tomohiro Kita (Tohoku Univ.)

■ 4.5 Information Photonics *Organized as a code-sharing session with 3.3 Information Photonics and image engineering

Date	Hour	Room	Title	Speaker
9/5 (Tue.)	17:15~17:45	A413	Optimization Strategy for Designing Computer-Generated Holograms and Diffractive Optical Elements	Wei-Feng Hsu (Nat. Taipei Univ. of Tech.)
9/6 (Wed.)	10:15~10:45	A409	Adaptive Appearance Manipulation for the Installation Art	Toshiyuki Amano (Wakayama Univ.)
	14:30~15:00		Interference-Based Techniques in Superresolution Microscopy	Pakorn Kanchanawong (Nat. Univ. of Singapore)
	16:00~16:30		Light Field Microscopy Combined with Super-resolution Techniques	Shin Usuki (Shizuoka Univ.)

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Invited Speakers

■ 4.6 Nanocarbon and 2D Materials

Date	Hour	Room	Title	Speaker
9/7 (Thu.)	9:00~9:30	A404	Thermal Management and Thermopower Waves by Anisotropic Carbon Nanomaterials	Seunghyun Baik (Sungkyunkwan Univ.)
	10:30~11:00		Optical Spectroscopy of Individual Nano-materials with Defined Atomic Structure	Kaihui Liu (Peking Univ.)
	13:15~13:45		Carbon nanotube films for perovskite solar cells	Shigeo Maruyama (Univ. of Tokyo)
	15:00~15:30		Single-carbon-nanotube photonics and optoelectronics	Yuichiro K. Kato (RIKEN)

■ 4.7 Terahertz Photonics

Date	Hour	Room	Title	Speaker
9/7 (Thu.)	9:00~9:30	A409	Ultrastrong Light-Matter Coupling in a High-Q Terahertz Cavity	Junichiro Kono (Rice Univ.)
	9:30~10:00		Enhanced THz Nonlinearity in Graphene and Graphene-based Materials	Fabian Rotermund (KAIST)
	13:15~13:45		Millimeter-wave and terahertz applications enabled by photonics	Tadao Nagatsuma (Osaka Univ.)
	13:45~14:15		Long distance Terahertz pulse propagation through atmosphere	Tae-In Jeon (Korea Maritime and Ocean Univ.)

■ 4.8 Strong Light Excitation Phenomena Applied to Materials and Bio Engineering

Date	Hour	Room	Title	Speaker
9/8 (Fri.)	13:15~13:45	A410	Tailored Femtosecond Bessel Beam Processing - Application to Through Si Vias for 3D Si ICs -	Koji Sugioka (RIKEN)
	14:00~14:30		Intense Femtosecond Laser-induced X-ray/Ultrasound Emission From Aqueous Solutions in Air	Koji Hatanaka (Academia Sinica)
	15:15~15:45		Marangoni Flow in Microfluidics Controlled by Laser Heating of Gold Nanoisland Films	Kyoko Namura (Kyoto Univ.)
	16:15~16:45		Space-Selective Modification of Glass by Using Femtosecond Laser	Shifeng Zhou (South China Univ. of Tech.)

■ 4.9 Quantum Optics

Date	Hour	Room	Title	Speaker
9/7 (Thu.)	13:15~13:45	A410	Real-time 70 Gbit/s, 128 QAM quantum noise stream cipher transmission over 100 km with secret keys delivered by continuous variable quantum key distribution system	Masataka Nakazawa (Tohoku Univ.)
	13:45~14:15		Complex networks of coherently coupled quantum dynamical systems	Hideo Mabuchi (Stanford Univ.)
	14:15~14:45		Solving intractable problems with coherent Ising machine	Hiroki Takesue (NTT BRL)
	15:30~16:00		Tying Knots in a Quantum Fluid	David S Hall (Amherst College)



Special Lecture of OSA Vice President is scheduled on Sep. 6.

English Sessions

8.8 Plasma Electronics English Session			
9/5 (Tue.)	14:30 – 15:00	Oral Session	Room S22
9/8 (Fri.)	9:30 - 11:30	Poster Session	P B (Kokusai Center 2F)
Symposium 「Materials Nano-technology: Surfaces and Interfaces of Thin Films and Nano-composites」			
9/5 (Tue.)	9:00 – 17:30	Oral Session	Room A405
Symposium 「Recent GFIS・advanced ion source microscopy technologies and its future prospects for R & D of materials and devices」			
9/7 (Thu.)	13:45 – 18:00	Oral Session	Room C13

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

10 Spintronics and Magnetism			
9/7 (Thu.)	16:00 – 18:00	Poster Session	P B (Kokusai Center 2F)
10.1 Emerging materials in spintronics and magnetism (including fabrication and characterization methodologies)			
9/5 (Tue.)	9:00 – 14:45	Oral Session	Room C18
10.2 Fundamental and exploratory device technologies for spin			
9/6 (Wed.)	9:00 – 12:00	Oral Session	Room C18
9/7 (Thu.)	9:00 – 11:15	Oral Session	Room C18
10.3 Spin devices, magnetic memories and storages			
9/7 (Thu.)	11:15 – 12:00	Oral Session	Room C18
9/8 (Fri.)	9:00 – 10:45	Oral Session	Room A413
10.4 Semiconductor spintronics, superconductor, multiferroics			
9/8 (Fri.)	10:45 – 14:45	Oral Session	Room A413
10.5 Application of magnetic field			
9/5 (Tue.)	9:00 – 11:30	Oral Session	Room C24
10.1,10.2,10.3 code-sharing session			
9/5 (Tue.)	14:45 – 19:00	Oral Session	Room C18