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 ar	e 011 02-07.		
4 JSAP-OSA Joint Sympo	sia 2017 Poster Sessio	on		
9/8 (Fri.)	9:30 - 11:30	Poster	PB (Kokusai Center 2F)	
4.1 Plasmonics		Organizer : Prabhat Ver	ma (Osaka Univ.)	
9/5 (Tue.)	9:00 - 17:45	Oral	Room A 410	
9/6 (Wed.)	9:00 - 11:45	Oral	Room A 410	
4.2 Bio- and Medical Pho	tonics	Nishidate (T	ra (Tohoku Univ.) / Izumi okyo Univ. of Agri. And Tech.) , nith (Osaka Univ.	
9/5 (Tue.)	13:15 - 16:45	Oral	Room A409	
4.3 Nano-and Micro Photonic	CS	Organizer : Tsutomu Sh	imura (Univ. of Tokyo)	
9/8 (Fri.)	9:00 - 12:45	Oral	Room A 409	
4.4 Opto-electronics		Organizer : Hiroyuki Ish	ii (NTT)	
9/6 (Wed.)	13:15 - 18:15	Oral	Room A410	
4.5 Information Photonic *Organized as a code-sha Information and image e	aring session with 3.3	Organizer : Ryoichi Horisaki (Osaka Univ.) /Hirotsugu Yamamoto (Utsunomiya Univ.)		
9/5 (Tue.)	17:15 - 18:30	Oral	Room A 413	
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	Rom A404	
4.7 Terahertz Photonics		Organizer : Toshihiko Ki	iwa (Okayama Univ.)	
9/7 (Thu.)	9:00 - 15:00	Oral	Room A409	
※Code-sharing session w	vith 3.9 Terahertz tech	nnologies		
9/7 (Thu.)	15:15 - 16:45	Oral	Room A409	
4.8 Strong Light Excitation to Materials and Bio El	• •	Organizer : Masaaki Saka Hosokawa (N	akura (Kyoto Univ.) / Yoichiro NAIST)	
9/8 (Fri.)	13:15 - 17:00	Oral	Room A410	
4.9 Quantum Optics		Organizer: Takashige Omatsu (Chiba Univ.) /Takuy Hirano (Gakushuin Univ.)		
9/7 (Thu.)	13:15 - 16:45	Oral	Room A410	



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Invited Speakers

■OSA Vice President Special Lecture

Date	Hour	Room	m Title		ker
9/6 (Wed.)	13⋅15∼14⋅15	Δ410	Semiconductor core fibers for optoelectronics	Ursula Gibson	(Norwegian Univ.
3/0 (Wed.)	6 (Wed.) 13:15~14:15 A410	7410	Serificonductor core fibers for optoelectronics	Orsula Gibson	of Sci. and Tech.)

■4.1 Plasmnics

Date	Hour	Room	Title	Speaker	
	9:00~9:30		Imaging Chiral Plasmons	Hiromi Okamoto	(Inst. for Mol. Sci.)
	10:45~11:15		Deep-UV Surface Plasmon for Bio-Imaging	Yoshimasa Kawata	(Shizuoka Univ.)
9/5 (Tue.)	9/5 (Tue.) 13:15~13:45 A4	A410	Electrical Switching Triggered by Plasmonic Nanoheater	Wakana Kubo	(Tokyo Univ. of
			Liectrical Switching Higgered by Plasmonic Nationeater	wakana Kubo	Agri. and Tech)
	15:45~16:15		Nonlinear Optical Mapping and Spectroscopy of Gap Plasmons	Dangyuan Lei	(Hong Kong
			in Single Plasmonic Golden Junctions	Dangydan Lei	Polytechnic Univ.)
9/6 (Wed.) 9:00~9:30	9:00~9:30	A410	Surface Enhanced Raman Spectroscopic Studies using Galvanic	Siva Umapathy	(Indian Inst. of
) 5/0 (Wed.)	9.00 9.50	7710	Nano-buds	Siva Offiapatriy	Sci.)

■4.2 Bio-and Medical Photonics

Date	Hour	Room	Title	Speaker	
0/5 (+ -)		Fiber-Assisted Fluorescence Spectral Endoscope	Takashi Katagiri	(Tohoku Univ.)	
9/5 (Tue.)	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	
	9:45~10:15		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	emispherically capped cylinders for application in two-		
9/8 (Fri.)	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	
14:4	14:15~14:45		Very Small Lasers and Resonators	Yong-Hee Le	(KAIST)
	14:45~15:15	A410	Progress of Hybrid III-V Lasers on Si and SOI substrates	Nobuhiko Nishiyama	(Tokyo Tech.)
9/0 (Wed.)	9/6 (Wed.) 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	A41.5	Optimization Strategy for Designing Computer-Generated	(Nat. Taipei l Wei-Feng Hsu		
3/3 (1461) 1/113 1/113			Holograms and Diffractive Optical Elements	, , , , , , , , , , , , , , , , , , ,	of Tech.)
	10:15~10:45		Adaptive Appearance Manipulation for the Installation Art	Toshiyuki Amano	(Wakayama Univ.)
	14:30~15:00		Interference-Based Techniques in Superresolution Microscopy	Pakorn	(Nat. Univ. of
9/6 (Wed.) 14:30~15:00 16:00~16:30	A409	Interference-based rechniques in Superresolution Microscopy	Kanchanawong	Singapore)	
	16:00~16:30		Light Field Microscopy Combined with Super-resolution	Shin Usuki	(Shizuoka Univ.)
			Techniques	Shiri Osuki	(SINZUORU OIIIVI)

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Invited Speakers

■ 4.6 Nanocarbon and 2D Materials

Date	Hour	Room	Title	Speaker	
	9:00~9:30		Thermal Management and Thermopower Waves by Anisotropic Carbon Nanomaterials	Seunghyun Baik	(Sungkyunkwan Univ.)
10:30~11:00 9/7 (Thu.)		Optical Spectroscopy of Individual Nano-materials with Defined Atomic Structure	Kaihui Liu	(Peking Univ.)	
), / (Tild.)	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	
	9:00~9:30		Ultrastrong Light-Matter Coupling in a High-Q Terahertz Cavity	Junichiro Kono	(Rice Univ.)
	9:30~10:00	9:30~10:00 A409	Enhanced THz Nonlinearity in Graphene and Graphene-based Materials	Fabian Rotermund	(KAIST)
9/7 (Thu.)	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 Engneering

Date	Hour	Room	Title Speaker		aker
	13:15~13:45		Tailored Femtosecond Bessel Beam Processing - Application to Through Si Vias for 3D Si ICs -	Koji Sugioka	(RIKEN)
9/8 (Fri.)	14:00~14:30		Intense Femtosecond Laser-induced X-ray/Ultrasound Emission From Aqueous Solutions in Air	Koji Hatanaka	(Academia Sinica)
9/8 (111.)	15:15~15:45		Marangoni Flow in Microfluidics Controlled by Laser Heating of Gold Nanoisland Films	Kyoko Namura	(Kyoto Univ.)
16:15~16:45	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	
	13:15~13:45		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.)
9/7 (Thu.)	9/7 (Thu.) 13:45~14:15 14:15~14:45	A410	Complex networks of coherently coupled quantum dynamical systems	Hideo Mabuchi	(Stanford Univ.)
			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)



The Optical Society Congratulates these 2017 Honorees:



Emmett N. Leith Medal Winner:

Jumpei Tsujiuchi

For early pioneering work in optical information processing, holography and optical metrology, including the first demonstration of coherent optical processing for image restoration.



OSA Fellows:

Tetsuya Ishikawa RIKEN, Japan

For pioneering work in optics for coherent x-rays and nano-focusing and for outstanding leadership in significantly advancing the technology of compact hard-x-ray free-electron lasers, opening doors to new scientific discoveries.



Shoji Tominaga

Chiba University, Japan

For creative contributions to color image science, including applications that span computer vision, computer graphics and vision science. He is an exceptional researcher who has also served the professional community.



Shinji Yamashita

RCAST, The University of Tokyo, Japan For pioneering contributions to fiber lasers, including carbon nanotube and graphene photonics based ultrafast pulse generation and signal processing, and fast wavelength-swept dispersion-tuned lasers for optical coherent tomography.



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English Sessions

8.8 Plasma Electronics English Session									
9/5 (Tue.)	14:30 - 15:00	Oral Session	Room S22						
9/8 (Fri.)	9/8 (Fri.) 9:30 - 11:30 Poster Session P B (Kokusai Center 2F)								
Symposium 「Materials N	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 Magnetics", more than half of the presentations are in English.

The category 10 Spiritionies and Magneties, more than half of the presentations are in English.			
10 Spintronics and Magnetics			
9/7 (Thu.)	16:00 - 18:00	Poster Session	PB (Kokusai Center 2F)
10.1 Emerging materials in spintronics and magnetics (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