

# 76th Annual Meeting of Japan Laser Processing Society 5th Dec 2011

9:35	Opening Remark	Chair : KATAYAMA, Seiji (Osaka Univ.)
	Plenary Session	Chair : KADOYA Teruyoshi (Laser Technology Fountain)
9:40	Status and Progress of European FP7 Projects of LIFT – Leadership in Fibre Laser Technology	Dr.Udo Klotzbach (Fraunhofer•Dresden (IWS))
10:30	R&D activity of German laser centers	MIYAMOTO Isamu (Osaka Univ.)
11:20	Modeling and Simulation of Multiphase Flow and Keyhole-Induced Discrepancy of Deep Penetration Laser Welding	Haiyan ZHAO (Tsinghua Univ.)
<b>Lunch break (12:30~13:40)</b>		
13:40	Short Presentation (Convention Hall) + Poster Presentation (Lobby)	Chairs : SAKAMOTO Haruhisa (Sophia Univ.), KAWAHITO Yousuke (Osaka Univ.)
There will be 22 poster presentations <<in Japanese>> , poster exhibition as well as table-top catalogue exhibition.		
<b>Coffee break (15:20~15:40)</b>		
	5A1 CFRP	Chair : TSUKAMOTO Masahiro (Osaka Univ.)
15:40	[Specially-invited] Laser ablation of CFRP Composite Material by a Nanosecond Pulsed Laser and SM Fiber Laser	KUTSUNA muneharu (Advanced Laser Technology Research Center Co., Ltd.)
16:20	Cutting process of carbon fiber reinforced plastic plate using UV nanosecond laser	TSUKAMOTO masahiro (Osaka Univ.)
16:50	Short Pulse Laser Processing of CFRP	FUJITA masayuki (Institute for Laser Technology)
17:20	Mechanical Behavior of Carbon Fiber Reinforced Plastics after laser cutting process	HARADA yoshihisa (AIST, PRI)
	5B1 Advanced Laser Materials Processing and Laser System	Chair : NIINO Hiroyuki (AIST, PRI)
15:40	[Specially-invited] Progress in micro/nano stereolithography and 3-D molding techniques	MARUO shoji (Yokohama National Univ.)
16:20	Femtosecond Laser Shock Processing of Solids	SANO tomokazu (Osaka Univ.)
16:50	Application to laser processing of wavefront control technique using LCOS-SLM	ITOH haruyasu (Hamamatsu Photonics K.K.)
17:20	Quantitative Measurement of Adhesion Strength between Cell and Biointerface Model by Pulsed Laser-Induced Shock Wave.	YOSHIKAWA hiroshi (Saitama Univ.)
17:50	<b>Closing</b>	
18:00	<b>Beer and Snack break (Refectory 17:50~19:50) The Announcement of Poster Award and Best Author Award</b>	

**76th Annual Meeting of Japan Laser Processing Society 6th Dec 2011**

6A1 Solid-state laser mounted cutting machine		Chair : TAKENO Shozui (Mitsubishi Electric)	6B1 Laser processing for brittle or hard materials. (LED,SiC,etc.)		Chair FUKUMITSU, Kenshi (Hamamatsu Photonics K.K.)
9:30	Trends in Cutting with Solid State Lasers	Florian Bartels (PRECITEC KG, Germany)	9:30	<b>[Specially-invited]</b> Laser micro machining to enhance the value of glass	IKENO junichi (Saitama Univ.)
10:00	Report of High-end 3D-Laser trimming machine for the steel sheet of automobile	TUDA Kenichi (TRUMPF Corporation)	10:10	Micro-pattern processing technology, using ultra-short pulsed laser with higher-repetition.	FUKUYAMA satoshi (TOSHIBA MACHINE CO.,LTD.)
10:30	Introduction of newly-developed cutting machine with 5kW multimode fiber laser	HAMADA Satoshi (Koike Sanso Kogyo Co., Ltd.)	10:40	Laser cutting process of brittleness materials by making use of a cooling nozzle	SUZUKI yoshiaki (Local Independent Administrative Institution the Tottori Institute of Industrial Technology)
11:00	Solid-State Laser Processing System Development in Europe	TSUJI Masakazu (IPG Photonics Japan Limited)	11:10	Femtosecond Laser Solutions Are Powering a New Era of Precision Manufacturing	Michael M. Mielke (Raydiance, Inc.)
<b>Lunch break (11:30~12:40)</b>			<b>Lunch break (11:40~12:40)</b>		
6A2 Latest laser processing in various products		Chair : ISHIDE Takashi (Mitsubishi Heavy Industries, Ltd)	6B2 Laser Applications for Flexible Electronics		Chair : MATSUSHITA Naohisa (Fuji Electric Co., Ltd)
12:30	Development of 10kW fiber laser welding system and its applications	KITAGAWA akikazu (HITACHI ZOSEN CORPORATION)	12:40	<b>[Specially-invited]</b> Development of flexible devices and its fabrication techniques	HASEGAWA Tatsuo (AIST, PRI)
13:10	Laser Welding of Light Poles	ISHIHARA koichi (Soutec Japan Co., Ltd.)	13:20	Flexible Solar Cells and Production Process using Laser Technology	TAKANO akihiro (Fuji Electric Co., Ltd.)
13:40	Advantage of the short pulsed laser in processing of brittle material	SAKAMOTO tomoniri (LaserNet, INC.)	13:50	Laser Sintering Technology with Metal Nanoparticles for Electronics Packaging	MAEKAWA katsuhiro (Ibaraki Univ.)
14:10	An attempt to enhance reaction rate for permeation induced nuclear transmutation by the laser irradiation	IWAMURA Yasuhiro (Mitsubishi Heavy Industries, Ltd.)	14:20	Optics system of laser operation of flexible electronics manufacturing	KONDO kiyoyuki (Yuki engineering sytem.co.)
14:40	New laser welding technology by beam shaping	MIURA Hideo (MIYACHI Corporation)			
<b>Coffee break (15:10~15:30)</b>			<b>Coffee break (14:50~15:10)</b>		
6A3 Basic of Practical Welding		Chair : KITAGAWA, Akikazu (Hitachi Zosen)	6B3 Advanced Laser Processing for Solar-Cell Fabrication		Chair : WASHIO, Kunihiro (Paradigm Laser Research )
15:30	Optical fiber delivery systems for high-power laser	ISHIDA tomohiko (MITSUBISHI CABLE INDUSTRIES, LTD.)	15:10	<b>[Specially-invited]</b> Laser Applications in Crystalline Silicon Solar Cell Production and Competing Technologies	Kyumin Lee (HYUNDAI HEAVY INDUSTRIES Co. Ltd., Korea)
16:10	Performance Characteristic and Safety of Fiber, Lenses and Other Optical Parts for High Power Disk Laser	NAKAMURA tsuyoshi (TRUMPF Corporation)	15:50	Local Laser Doping into Silicon at Room Temperature and Application to Solar Cells	FUYUKI takashi (Nara Institute of Science and Technology)
16:40	Optical system for high power laser material processing and applications	MIZUTANI shigeto ( II-VI Japan Incorporated)	16:20	Laser Processing of Organic Photovoltaic Cells with a Roll-to-Roll Manufacturing Process	Wayne LEWIS (Beams Inc.)
17:10	<b>Closing</b>		16:50	Laser processing for thin-film solar cells based on glass and plastic substrates	FUKUDA naoaki (HITACHI ZOSEN CORPORATION)
			17:20	<b>Closing</b>	