

**Yonsei University – Shizuoka University**  
**Students Workshop 2012**

**Proceedings**

August 24, 2012

Shizuoka University, Hamamatsu, Shizuoka

Yonsei University – Shizuoka University Students Workshop 2012  
August 24 (Fri), 2012 at Shizuoka University, Japan

Program

10:00-10:30	<b>Registration</b>	
10:30-10:40	<b>Opening Remark</b>	
10:40-11:10	O-01 (Invited) <b>Development of Interactive Nanomanipulators Based on Scanning Probe Microscopes</b> Professor Futoshi Iwata	
11:10-11:25	O-02 <b>High Spatial Resolution Luminescence Microscopy with Direct Electron Beam Excitation for Dynamic Live Cell Imaging</b> . . . . . 11 Yasunori Nawa, W. Inami, A. Chiba, A. Ono, A. Miyakawa, Y. Kawata, S. Lin, and S. Terakawa (Shizuoka University)	
11:25-11:40	O-03 <b>Refractive Media Flatness Measurement by Phase Shifting Digital Holography</b> . . . . . 13 Sungbin Jeon, Janghyun Cho, Do-Hyung Kim, No-Cheol Park (Yonsei University)	
11:40-11:55	O-04 <b>Deep-UV Surface Plasmon Resonance for the Enhancement of Fluorescence Excitation</b> . . . . . 15 Masakazu Kikawada, A. Ono, W. Inami, and Y. Kawata (Shizuoka University)	
11:55-12:10	O-05 <b>Air Gap Control System for High Speed Plasmonic Lithography with Solid Immersion Lens Optical Head</b> . . . . . 17 Guk-Jong Choi, Won-Sup Lee, Taeseob Kim, Geon Lim, No-Cheol Park (Yonsei University)	
12:10-13:45	<b>Lunch</b>	

13:45-14:00	O-06		
	<b>Micro-Processing of HeLa Cells with Electron Beam</b>	·····	19
	Ken Watanabe, W. Inami, Y. Kawata (Shizuoka University)		
14:00-14:15	O-07		
	<b>Development of a MEMS-based Wear Tester</b>	·····	21
	Shin-Sung Yoo, Dae-Eun Kim (Yonsei University)		
14:15-14:30	O-08		
	<b>The Numerical Analysis of Intensity Distribution of Light Excited by Electron Beam in a Luminescent Film</b>	·····	23
	Masahiro Fukuta, W. Inami, A. Ono, and Y. Kawata (Shizuoka University)		
14:30-14:45	O-09		
	<b>3D Thickness Profile Measurement of a Metal Film Using a Film Removal Process</b>	·····	25
	Hang-Eun Joe, Dae Su Kim, Sang Jo Lee, Byung-Kwon Min (Yonsei University)		
14:45-15:00	<b>Coffee Break</b>		
15:00-15:15	O-10		
	<b>Development of Optically Controllable Electrophoresis with a Photoconductive Substrate</b>	·····	27
	Taiki Nagashima, W. Inami, and Y. Kawata (Shizuoka University)		
15:15-15:30	O-11		
	<b>Image Reconstruction for Potable Digital Holographic Microscopy Using Glass Phase Shifter</b>	·····	29
	JaeHyeong Park, Janghyun Cho, Sungbin Jeon, Sang Jo Lee, Kyung Soo Lee (Yonsei University)		
15:30-15:45	O-12		
	<b>Measurement of Electron Transmittance of Fluorescent Thin Film with a High Electron Stopping Power Layer</b>	·····	31
	Takuya Miyazawa, Y. Nishimura, W. Inami, Y. Kawata (Shizuoka University)		
15:45-16:00	<b>Closing Remark</b>		