

The 31st KOGAKU SYMPOSIUM

Focusing on Design, Manufacturing, and Evaluation of Optical Systems and/or Elements

- Organizer : OSJ (Optical Society of Japan)(An affiliate of the Japan Society of Applied Physics)
- Date : 2006 June 22 (Thu) 9:10~17:10 & 23 (Fri) 9:20~16:40
- Venue : Institute of Industrial Science, University of Tokyo Komaba Campus
(4-6-1 KOMABA MEGURO-KU, TOKYO, Japan)

<Program>

Jun. 22 (Thu)

— AM — (9:10~11:35)

Opening Remarks (9:10~9:20)

President, Optical Society of Japan, Kazuyoshi ITOH (Osaka University)

1. Collinear Technology for Holographic Versatile Disc (HVD) [Invited Speech] (9:20~10:00)

OPTWARE Corporation Xiaodi Tan

2. Shift-selectivity of Collinear Holographic Memory (10:00~10:20)

Institute of Industrial Science, University of Tokyo*, OPTWARE Corporation**

○Yasushi ASHIZUKA*, Tsutomu SHIMURA*, Ryushi FUJUMURA*, Shotaro ICHIMURA*,

Kazuo KURODA*, Xiaodi TAN**, Hideyoshi HORIMAI**

— Coffee Break (10:20~10:35) —

3. Plasmonic crystals and their applications [Invited Speech] (10:35~11:15)

RIKEN Takayuki Okamoto

4. Fabrication of the optical filter with two materials mixed layers (11:15~11:35)

Olympus Co., Ltd. ○N.Toyohara, K.Kikuchi, Y.Shinta, Y.Wada, K.Takahashi, S.Iura, K.Kawamata

— Lunch (11:35~13:00) —

— PM — (13:00~17:10)

5. Characteristics of stepper optics—Optical design pursuing the limit— [Invited Speech] (13:00~13:40)

Tokyo Polytechnic University Masato Shibuya

6. Catadioptric Projection Optical System for Flat Panel Exposure Tool (13:40~14:00)

Canon Inc. ○Hitoshi Yoshioka, Michio Kohno, Kiyoshi Fukami, Shu Watanabe, and Akiyoshi Suzuki

7. Influence of photoresist resolution in high-NA ArF immersion lithography (14:00~14:20)

Canon Inc. ○Yasuhiro Kishikawa, Tokuyuki Honda, Yuichi Iwasaki,

Akinori Ohkubo, Miyoko Kawashima, Minoru Yoshii

— Coffee Break (14:20~14:35) —

8. Surface relief evaluation of lamellar gratings by diffraction efficiency (14:35~14:55)

Ehime University ○Hiroyuki Ichikawa, Atsunori Kishimoto, Masashi Nakao, Yasuhiro Tachibana

9. Nano-structured optical devices by lithography method with characteristics of high-speed fabrication and large patterned area (14:55~15:15)

National institute of Advanced Industrial Science and Technology (AIST)*, Pulstec Industrial Co., LTD**

○Kazuma Kurihara*, Takashi Nakano*, Hirohumi Ikeya**, Masahiko Ujiie**,

Osamu Nagumo** and Junji Tominaga*

10. Manufacturing method of Anti Reflection Structure on an aspheric mold and molding technology (15:15~15:35)

Konica Minolta Technology Center, Inc.*, Konica Minolta Opto, Inc.**

○Shigeto Omori*, Naoki Nishida*, Yuko Yamamoto*, Hiroaki Ueda*, and Yuzo Nakatsuka**

— Coffee Break (15:35~15:50) —

11. Visualization of Surface Topography and Vibrations in Micro-Structures with White-Light Interferometry

(15:50~16:10)

The University of Tokyo ○Seichi Sato, Toru Kurihara, Shigeru Ando

12. Highly Accurate Phase Imaging of Cultured Living Cells with White-Light Interference Microscopy (16:10~16:30)

HAMAMATSU Photonics K.K. ○Toyohiko Yamauchi, Hidenao Iwai, Yutaka Yamashita

13. Fourier domain optical coherence tomography [Invited Speech] (16:30~17:10)

University of Tsukuba ○Toyohiko Yatagai, Yoshiaki Yasuno and Masahide Itoh

Jun. 23 (Fri)

— AM — (9:20~11:35)

14. 2005 inch screen size laser projection display with GxL light modulator [Invited Speech] (9:20~10:00)

Sony Corporation Hiroki Kikuchi

15. Output characteristics of an OLED coupled to optical films (10:00~10:20)

Ritsumeikan University ○Ichiro Fujieda, Masakatsu Tada, Yoshihiko Takagi

— Coffee Break (10:20~10:35) —

16. Liquid crystal GRIN lense and its application to variable focus lenses (10:35~10:55)

CITIZEN WATCH CO., LTD.*, CITIZEN DISPLAYS CO., LTD.**

Nobuyuki Hashimoto*, ○Makoto Kurihara**

17. Liquid lens technology for adaptive optics:

principle, physical limitations and applications [Invited Speech] (10:55~11:35)

Varioptic Bruno Berge

— Lunch (11:35~13:00) —

— PM — (13:00~16:40)

18. Digital holography and its recent advances [Invited Speech] (13:00~13:40)

Gunma University Ichirou Yamaguchi

19. Three-dimensional measurement with a confocal optical system by inclined plane scanning (13:40~14:00)

Osaka City University ○Toshifumi Murai, Koji Maeda, Yosuke Baba, Daisuke Miyazaki, Takaaki Mukai

20. Holographic femtosecond laser processing with multiplexed phase Fresnel lenses (14:00~14:20)

University of Tokushima ○Satoshi Hasegawa, Yoshio Hayasaki

— Coffee Break (14:20~14:35) —

21. Optical Data Transmission Module Using Polymer Waveguide (14:35~14:55)

Fuji Xerox Co., Ltd. ○Shigemi Ohtsu, Toshihiko Suzuki, Akira Fujii,

Kazutoshi Yatsuda, Keishi Shimizu, Eiichi Akutsu

22. Optimization of in-line confocal optics that optically amplifies the reflected light using a Laser Diode (14:55~15:15)

Osaka Institute of Technology Hisami Nishi

23. Strain Monitor System by Measurement of FBG Reflection Power (15:15~15:35)

Muroran Institute of Technology ○Shinya SATO, Yoshimasa MORIGUCHI, Masaaki IMAI

— Coffee Break (15:35~15:50) —

24. Panoramic Optical System (15:50~16:10)

OLYMPUS Future Creation Laboratory Takayoshi Togino

25. High Speed Stereo Measurement Module Using Profile Sensor (16:10~16:30)

Hamamatsu Photonics K.K. ○Naohisa Mukozaka, Yoshinori Matsui, Haruyoshi Toyoda,

Yukinobu Sugiyama, Atsushi Ihori, Seichiro Mizuno

Closing Remarks (16:30~16:40)

Conference Chair, Tokuyuki Honda (Canon Inc.)

◇Contact address for obtaining further information

Tokuyuki Honda (Canon Inc.)

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◇The latest detailed information look at the 31st kogaku symposium homepages.

http://annex.jsap.or.jp/OSJ/meet/31th_sympo/index.html