ADVANCE PROGRAM





11th MICROOPTICS CONFERENCE

http://www.din.or.jp/~microopt/moc05/

Sponsored by The Japan Society of Applied Physics



In cooperation with

- Optical Society of America
- IEEE/Lasers and Electro-Optics Society
- IEICE/Electronics Society
- The Chemical Society of Japan
- The Society of Polymer Science, Japan
- The Laser Society of Japan
- Optoelectronic Industry and Technology Development Association
- Japan Optoelectro-Mechanics Association
- Japan Science and Technology Agency (JST)

Oct. 30(Sun.) – Nov. 2(Wed.), 2005 SABO KAIKAN, Tokyo, Japan

MOC '05 Agenda At-A-Glance

Oc	tober 30 (Sun.)	Oc	tober 31 (Mon.)
8:30		8:30	
9:00		9:00	Opening Remarks
30		30	
10:00		10:00	A. Plenary
30		30	
11:00		11:00	Break
30		30	B. 2D
12:00		12:00	Components
30		30	
13:00		13:00	Lunch
30		30	
14:00		14:00	C. Waveguide
30		30	Devices
15:00		15:00	Break
30	Tutorial Workshop	30	D. High Index
16:00		16:00	Contrast
30		30	Devices
17:00		17:00	Break
17.00		17.00	
30		30	E. Special Session-1
18:00		18:00	
30		30	Refreshment
19:00	Get Together	19:00	
30		30	E. Special Session-2
20:00		20:00	
	Registration hours		Exhibition hours

MOC '05 Agenda At-A-Glance

November 1 (Tue.) N				Νον	November 2 (Wed.)		
8:30				8:30			
9:00				9:00			
30			F. Optical	30		L. Bio-optics and Sensing	
10:00			Memory	10:00			
30				30		Break	
11:00			Break	11:00			
30			G. Optical	30		M. VCSEL	
12:00			Sensing	12:00			
30				30			
13:00			Lunch	13:00		Lunch	
30				30			
14:00				14:00			
30			H. Poster Session	30		N. Display and	
15:00			Cocolon	15:00			
30				30			
16:00			Break	16:00		Break	
30				30		PD. Post Deadline Papers Closing Remarks	
17:00	-	J.	Nano-structures	17:00	Move	to Matsuya Salon	
30				30	Aw	ard Ceremony	
18:00			Refreshment	18:00	N	licro Concert	
30	-			30			
19:00		K. Optical Signal Processing and Fibers		19:00	Co	nference Party	
30				30			
20:00				20:00			
	Re	gis	tration hours		Exhib	pition hours	

Technical Program

The 11th MICROOPTICS CONFERENCE (MOC '05) will be held at Sabo Kaikan, Tokyo, Japan on October 30- November 2, 2005. This conference is organized and sponsored by the Japan Society of Applied Physics in cooperation with several academic societies and associations. The MOC '05 is intended to provide a central forum for an update and review of scientific and technical information covering a wide range of microoptics field from fundamental researches to systems and applications. The latest information will be available on the following web site:

http://www.din.or.jp/~microopt/moc05/

Tutorial Workshop

The tutorial workshop will be held in the afternoon on October 30, co-sponsored by **JST**. Some related topical fields of microoptics are selected.

"Introduction"H. Nakajima, Waseda University & JST"VCSEL microoptics"K. Iga, JSPS"Photonic sensing"K. Hotate, University of Tokyo"Polymer photonics"Y. Koike, Keio University"Photonic crystals"T. Baba, Yokohama National University"Impressive summary"K. Goto, Tokai University

Get Together

Get Together will be held in the evening on October 30. All attendees of MOC'05 are cordially invited.

Plenary Session

The following papers are invited as the plenary talks.

"Photonic integration - From ARROW and microring toward VLSI photonics -"

Y. Kokubun, Yokohama National University

"Erbium-doped optical fibre amplifier - Functional fibres and impacts -"

D. N. Payne, Southampton University

"Binary micro optics and beyond"

W. B. Veldkamp, MIT Lincoln Laboratory

Special Session

The special session entitled as "Silicon Photonics" is planned on Monday, October 31, 2005, which is co-sponsored by **IEEE/LEOS Japan Chapter** and **JST**. The followings are invited talks for special session.

"Light generation in silicon"

B. Jalali, UCLA

"Silicon-on-Insulator based high index contrast waveguide devices: research in Europe"

R. Baets, Gent University -IMEC

"Optical resonance in photonic crystals: Fano interference and stopping light"

S. Fan, Stanford University

"Stimulated light emission from silicon nanostructured PN junctions using current injection"

C. S. Tsai, UC Irvine

"Trends in micro and nanophotonics" G. T. Reed, Surrey University

"Silicon photonics: Opportunities, challenges and recent advances"

M. Paniccia, Intel Corporation

Oral Presentation

The presentation time (including discussion) will be 30 min. for invited papers, 15 min. for regular papers and 10 min. for post deadline papers. The invited speakers for special session will have 20 min. talks. All speakers are requested to present the paper with a data (LCD) projector and to contact the session chairs prior to the starting time of the session.

Poster Session

In the conference, poster session will be held in the afternoon of November 1. For the convenience of the participants, this session will be divided into two parts. The first half is for authors with the paper of odd-number (H1, H3, ...) and the second half is for authors with the paper of even-number (H2, H4, ...). Authors should stay by turns in the vicinity of the bulletin board for discussion. Each author is requested to display materials on a 180 cm wide and 180 cm high bulletin board.

Post Deadline Papers

A limited number of post deadline papers will be accepted for the post deadline oral session or the poster session. Latest significant results obtained after the regular deadline are most welcome. Post deadline papers must be submitted electronically to:

S. Yamashita Program Co-chair, MOC'05 University of Tokyo E-mail: syama@ee.t.u-tokyo.ac.jp

The deadline for submission is **October 11, 2005**. Detailed instructions on how to prepare a paper are available as the template from the web site:

http://www.din.or.jp/~microopt/moc05/

Award Ceremony and Micro Concert

Award Ceremony and Micro Concert will be held on the last day after the technical program. Micro Concert will be performed by Machida Philharmony Baroque organized by Prof. K. Iga. The ceremony and the concert will be held at Matsuya Salon which locates near SABO KAIKAN.

Conference Party

Conference Party will be held after Micro Concert at the same place. All attendees of MOC'05 are cordially invited.

Technical Exhibition

Table-top technical exhibition will be planned at Tone Gallery. Take this opportunity to see the latest products and technologies in relation to Micro Optics. Exhibition hours are 9:00 to 17:00 on October 31 to November 2. For information about exhibiting at this conference, please contact:

H. Fuji Sharp Corp. 2613-1 Ichinomoto-cho, Tenri 632-8567, Japan Tel: +81-743-65-0617, Fax: +81-743-65-0597 E-mail: fuji.hiroshi@sharp.co.jp

Official Language

The official language of MOC '05 is English.

Special Issue "Microoptics"

A special issue on microoptics of the Japanese Journal of Applied Physics (JJAP) is scheduled for publication in August, 2006. Not only authors of papers for MOC '05 but also people having activities related to microoptics are strongly encouraged to submit original papers to the special issue. The deadline for submission is January 16, 2006. If you want any further information, please contact:

> T. Mizumoto Editor/Secretariat, MOC Special Issue Dept. of Electrical and Electronic Eng., Tokyo Institute of Technology 2-12-1 Ookayama, Meguro-ku, Tokyo 152-8852, Japan Tel/Fax: +81-3-5734-2578 E-mail: tmizumot@pe.titech.ac.jp

Monday, October 31

Yodoshinano Hall

9:00-9:20 Opening Remarks

Conference Co-chairs of MOC '05:

- T. Mizumoto, *Tokyo Institute of Technology* Y. Handa, *Canon Inc.*
- 9:20-10:50 Session A: Plenary
- Chairs: T. Mizumoto, *Tokyo Institute of Technology* Y. Handa, *Canon Inc.*

A1 Photonic integration - From ARROW and microring

- 9:20 toward VLSI photonics (Plenary)
 - Y. Kokubun, Yokohama National University
- A2 Erbium-doped optical fibre amplifier Functional fibres
- 9:50 and impacts (Plenary)
- D. N. Payne, Southampton University
- A3 Binary micro optics and beyond (Plenary)
- 10:20 W. B. Veldkamp, MIT Lincoln Laboratory

Break (10:50-11:15)

11:15-12:30 Session B: 2D Components

- Chairs: W. B. Veldkamp, *MIT Lincoln Laboratory* S. Ura, *Kyoto Institute of Technology*
- B1 Integrated microoptical technologies for the optical data
- 11:15 storage (Invited)
- Y. Park, Yonsei University
- B2 Microlens fabrication by nanoimprint lithography
- 11:45 F. Nikolajeff and A. Lundvall, The Ångström Laboratory, Uppsala University

B3 Fabrication of blazed area-coded effective medium 12:00 structures (BLACES)

H. Elfström¹, B. H. Kleemann², J. Ruoff², T. Vallius¹, and R. Arnold³, ¹University of Joensuu, Department of Physics, ²Corporate Research and Technology, Carl Zeiss AG, ³Lithography Optics Division, Carl Zeiss SMT AG

B4 Array of hollow beams obtained with doughnut shaped 12:15 microlenses

G. Boer¹, F. Merenda¹, and T. Scharf², ¹Ecole Polytechnique Fédérale de Lausanne (EPFL), Institute of Applied Optics (IOA), ²University of Neuchâtel, Institute of Microtechniques (IMT)

Lunch (12:30-13:50)

13:50-15:05 Session C: Waveguide Devices Chairs: R. Baets, *Gent University -IMEC* T. Suhara, *Osaka University*

C1 Effect of apodization on high rejection fiber Bragg 13:50 gratings

A. Sakamoto, K. Horimoto, and S. Okude, *Optics and Electronics Laboratory, Fujikura Ltd.*

C2 Silica-based PLC-type polarization beam splitter with 14:05 >30dB high extinction ratio over 75nm band width

N. Matsubara, H. Kawashima, and K. Nara, *Fitel Photonics* Laboratory, *The Furukawa Electric Co., Ltd.*

Monday, October 31

C3 2.5%-∆ athermal arrayed-waveguide grating 14:20 multi/demultiplexer with low trench diffraction loss

K. Maru^{1,2,3}, Y. Abe¹, H. Ishikawa^{1,2}, M. Ito^{1,2}, S. Himi¹, H. Uetsuka^{1,2}, and T. Mizumoto³, ¹Advanced Technology Laboratories, Hitachi Cable, Ltd., ²Optoelectronic Industry and Technology Development Association, ³Graduate School of Science and Engineering, Tokyo Institute of Technology

C4 Er³⁺-Yb³⁺ codoped polymeric waveguide amplifiers 14:35 fabricated using UV direct printing

E. Y. B. Pun, W. H. Wong, and K. S. Chan, City University of Hong Kong

C5 Electro-optic single-sideband modulators with resonant

14:50 electrodes and polarization-reversed structures for USB/LSB splitting operation

H. Murata, D. Nakata, K. Ono, and Y. Okamura, *Graduate* School of Engineering Science, Osaka University

Break (15:05-15:25)

15:25-16:40 Session D: High Index Contrast Waveguide Devices

Chairs: G. T. Reed, *Surrey University* H. Nishihara, *The University of the Air*

D1 Mach-Zehnder interferometer with Si wire waveguides 15:25 for ultracompact optical isolator

Y. Shoji¹, H. Yokoi², and T. Mizumoto^{1.3}, ¹Tokyo Institute of Technology, ²Shibaura Institute of Technology, ³Optoelectronic Industry and Technology Development Association

D2 Low-loss Si wire waveguides and their applications to 15:40 thermooptic switches

T. Tsuchizawa, K. Yamada, H. Fukuda, T. Watanabe,

S. Uchiyama, and S. Itabashi, *NTT Microsystem Integration Laboratories*

D3 Vertically-coupled cascaded microdisk resonators in 15:55 silicon

P. Koonath, T. Indukuri, and B. Jalali, *University of California, Los Angeles*

D4 Non-blocking wavelength switch using TO effect of

 16:10 double series coupled dielectric microring resonator
 Y. Goebuchi, T. Kato, and Y. Kokubun, Graduate School of Engineering, Yokohama National University

D5 Filter response improvement of higher-order series

16:25 **coupled microring resonators by selective UV trimming** S. Ueno, T. Naganawa, and Y. Kokubun, *Graduate School of Engineering, Yokohama National University*

Break (16:40-17:00)

17:00-20:30 Session E: Special Session "Silicon Photonics"

Chairs: K. Wada, University of Tokyo Y. Kokubun, Yokohama National University

- T. KOKUDUII, TOKOHAMA INALIONAL ONIVERSILY
- T. Mizumoto, *Tokyo Institute of Technology*

Monday, October 31

17:00 Introduction K. Wada, University of Tokyo

- E1 Light generation in silicon (Invited)
- 17:05 B. Jalali, UCLA
- E2 Silicon-on-Insulator based high index contrast 17:25 waveguide devices: research in Europe (Invited) R. Baets, *Gent University -IMEC*
- E3 Optical resonance in photonic crystals: Fano
- 17:45 **interference and stopping light** (Invited) S. Fan, *Stanford University*
- E4 Stimulated light emission from silicon nanostructured
- 18:05 **PN junctions using current injection** (Invited) C. S. Tsai, *UC Irvine*

Refreshment (18:25-19:00)

- E5 Trends in micro and nanophotonics (Invited)
- 19:00 G. T. Reed, Surrey University
- E6 Silicon photonics: Opportunities, challenges and recent
- 19:20 advances (Invited)
 - M. Paniccia, Intel Corporation
- 19:40 Panel Discussion
- 20:30



* * *

Flower of Tokyo: Someiyoshino cherry blossom

Tuesday, November 1 Yodoshinano Hall

9:00-1 Chairs	0:45 Session F: Optical Memory : Y. Park, Yonsei University K. Ueyanagi, Fuji Xerox Co., Ltd.
F1 9:00 F2 9:30	Surface plasmons for optical disk head (Invited) W. A. Challener, <i>Seagate</i> Nano-fabrication trial report to the GaP optical head of ultrahigh density disk for evanescent light enhancement by surface plasmon K. Goto ¹ , K. Ohkuma ¹ , K. Suzuki ¹ , K. Nakamatsu ² , and
F3 9:45	S. Matsui ² , ¹ <i>Tokai University</i> , ² <i>Japan and Hyogo University</i> Fabrication of nanoprobe array integrated with VCSEL and microlens JK. Oh ¹ , DS. Lim ² , SM. Kim ² , YJ. Kim ¹ , and S. Kang ² , ¹ <i>Center for Information Storage Device. Yonsei University.</i>
F4 10:00	² School of Mechanical Engineering, Yonsei University Integration of microlenses on aperture array to increase optical efficiency in optical ROM card system SM. Kim ¹ , H. Kim ¹ , J. Lim ¹ , J. Han ¹ , S. Kang ¹ , and C. Busch ² , ¹ School of Mechanical Engineering, Yonsei
F5 10:15	Ultra-compact optical pickup with an integrated optical system H. Nakata, T. Nagata, and H. Tomita, AV Core Technology
F6 10:30	Department Center, Matsushita Electric Industrial Co., Ltd. Energy-gap-induced super-resolution (EG-SR) ROM disc with a zinc oxide film in a Blu-ray disc optical system M. Yamamoto, G. Mori, H. Tajima, N. Takamori, K. Kojima, and A. Takahashi, Devices Technology Research Laboratories, Corporate R&D Group, SHARP Corporation
	Break (10:45-11:15)
11:15- Chairs	12:30 Session G: Optical Sensing : M. J. Schnitzer, Stanford University K. Hotate, University of Tokyo
G1	Amplified fiberoptic networks for sensor multiplexing (Invited)
G2 11:45	M. López-Amo, <i>Public University of Navarra</i> High-speed high-reflectance-resolution optical reflectometry by synthesis of optical coherence function Z. He ¹ , T. Tomizawa ¹ , M. Kashiwagi ² , and K. Hotate ^{1, 1} School of Engineering, University of Tokyo, ² Graduate School of
G3 12:00	Frontier Sciences, University of Tokyo Polarization-insensitive measurement by fiber optic interferometer with Faraday rotator elements D. Moteki, C. Samuel, T. Shioda, Y. Tanaka, and T. Kurokawa, Graduate School of Technology, Tokyo University of Agriculture and Technology
G4 12:15	Noise characterization of CMOS two-colour APS S. Feruglio, P. Garda, and G. Vasilescu, <i>LISIF, University</i> <i>Pierre & Marie Curie</i>

Tuesday, November 1

Kiso Hall

- **13:30-16:00**Session H: Poster SessionChairs:T. Watanabe, Fujikura Ltd.K. Shimizu, Japan Women's University
- (13:30-14:45) Odd numbers: 1st half
- (14:45-16:00) Even numbers: 2nd half
- H1 Feasibility of GaN intersubband optical switches in a photonic wire resonator for 160-Gb/s applications N. Suzuki, Corporate R&D Center, Toshiba Corp.
- H2 Combined simulation of active and passive microoptical components

O. Stuebbe¹, T. Bierhoff², M. Jarczynski³, J. Jahns³, G. Mrozynski⁴, J. Schrage², and A. Wallrabenstein⁴, ¹University of Paderborn C-LAB, ²Siemens C-LAB, ³University of Hagen, ⁴University of Paderborn

H3 Design of high-efficiency broadband diffractive elements

H. Lajunen, A. Lehmuskero, J. Tervo, and J. Turunen, *Department of Physics, University of Joensuu*

- H4 RIE lag eliminated by an ICP system with SF₆/O₂/CHF₃ H.-H. Chen, Opto-Electronics & Systems Laboratories, Industrial Technology Research Institute
- H5 Fabrication of polymer waveguide using an electroplating mold process W.-C. Chuang¹, P.-J. Chou¹, C.-T. Ho², and R. F. Shyu³, ¹Department of Electro-Optics Engineering, National Huwei Formosa University, ²Department of Mechanical Design Engineering, ³Department of Mechanical Manufacturing

Engineering

H6 Wafer direct bonding by plasma treatment for waveguide isolator

H. Saito¹, K. Sakurai¹, and T. Mizumoto^{1,2}, ¹Tokyo Institute of Technology, ²OITDA

H7 Fabrication of novel polymer waveguides consisting of alicyclic methacrylate copolymers by deep UV exposure Y. Ichihashi, P. Henzi, M. Bruendel, D. G. Rabus, and J. Mohr, Institute for Microstructure Technology, Forschungszentrum Karlsruhe GmbH

H8 Multistep cascaded third harmonic generation in periodically poled directional couplers
 K. Koynov¹, S. M. Saltiel¹, and Y. S. Kivshar², ¹University of Sofia, ²Australian National University

- H9 A high-NA lensed fiber employing a high-index layer
 N. Kawasaki^{1,2}, K. Watanabe¹, M. Umetsu¹, H. Yoda¹, T. Masujima², S. Shikano², and K. Shiraishi¹, ¹Utsunomiya University, ²MORITEX Corporation
- H10 TE-cut polarizer based on silicon wire waveguide M. Taya¹, Y. Shoji¹, and T. Mizumoto^{1,2}, ¹Tokyo Institute of Technology, ²OITDA

Tuesday, November 1

H11	Optimization of Y-branches by wavefront matching method and their application to 1x16 splitters
	Y. Sakamaki, T. Saida, Y. Hida, T. Hashimoto, M. Tamura, and H. Takahashi, <i>NTT Photonics Laboratories, NTT</i>
LI12	Corporation
H1Z	A silicon-based spot-size converter using an up-taper
	H lkedo ¹ H Yoda ¹ K Shiraishi ¹ and C S Tsai ^{2,3}
	¹ Graduate School of Engineering, Utsunomiva University,
	² University of California. Irvine. ³ National Taiwan University
H13	Self-alignment effect on self-written waveguides
	between single-mode optical devices
	F. Huang and Y. Eriyama, Tsukuba Research Laboratories,
	JSR Corporation
H14	Optical add drop multiplexers using fiber Bragg grating
	couplers
	S. Hagiwara', H. Miyakawa', J. Usui', N. Nakamura ² , and S.
1145	Kawal', 'University of Industrial Technology, 21010 Ltd.
піэ	Fabrication of rugate optical filter with multi-step
	H Yoda D Tanaka and K Shiraishi Graduate School of
	Engineering, Utsunomiva University
H16	Negative feedback optical amplifier based on cross-gain
	modulation in semiconductor optical amplifiers
	Y. Maeda, Toyota Technological Institute
H17	Application of photoconductive layer for improvement
	of domain-inverted grating formation in MgO:LiNbO $_3$ by
	applying voltage under ultraviolet light
	M. Fujimura, S. Yoshimoto, and I. Suhara, <i>Graduate School</i>
LI40	of Engineering, Usaka University
пю	using cascaded second-order poplinear effect in
	neriodically noted lithium niobate devices
	T. Kawashima, Y. Fukuchi, and M. Akaike, Faculty of
	Engineering, Tokyo University of Science
H19	Integration of different-period waveguide DBRs by
	interference exposure using cylindrical mirror
	T. Asada ¹ , S. Yamaguchi ¹ , K. Nishio ¹ , A. Horii ¹ , S. Ura ¹ , and
	K. Kintaka ² , ¹ Kyoto Institute of Technology, ² Photonics
	Research Institute, National Institute of Advanced Industrial
1120	Science and leconology
Π20	diede transmitter/receiver array with entired feedback
	S Ebisawa and S Komatsu Waseda University
H21	Infrared rejection by free-standing inductive grid filter
	J. Laukkanen ¹ , K. Jefimovs ² , T. Vallius ³ , T. Pilvi ⁴ , M. Ritala ⁴ .
	T. Meilahti ⁵ , M. Kaipiainen ⁵ , and J. Turunen ³ , ¹ InFotonics
	Center, University of Joensuu, ² Laboratory for Micro- and
	Nanotechnology, Paul Scherrer Institut, ³ Department of

Physics, University of Joensuu, ⁴Department of Chemistry, University of Helsinki, ⁵Oxford Instruments Analytical Ltd.

Tuesday, November 1

H22 Volume holographic filter at 1.55 μm in near-stoichiometric lithium niobate

Y. Liu¹, K. Kitamura¹, S. Takekawa¹, M. Nakamura¹, and H. Hatano², ¹National Institute for Materials Science, ²Corporate Research and Development Laboratories, Pioneer

H23 The optimal recording geometry for shift-multiplexed holographic memory in a LiNbO₃ disk

X.-H. Lee¹, W.-C. Su², and W.-C. Shih¹, ¹Graduate Program in Electro-Optical Engineering, Tatung University, ²Department of Physics, National Changhua University of Education

H24 Numerical analysis of photoinduced surface relief formed on azobenzene polymer film by optical near-field exposure

D. Barada^{1,3}, T. Fukuda^{2,3}, M. Itoh¹, and T. Yatagai^{1,2}, ¹Institute of Applied Physics, University of Tsukuba, ²Special Research Project on Nanoscience, University of Tsukuba, ³Photonics Research Institute, National Institute of Advanced Industrial Science and Technology (AIST)

H25 Spectral properties of edge emitting laser with extremely short external cavity

M. Arizaleta^{1,2}, J. Hernandez², A. Tabaka², H. Thienpont², M. López-Amo¹, and K. Panajotov², ¹Department of Electrical and Electronic Engineering, Universidad Pública de Navarra, ²Department of Applied Physics and Photonics, Vrije Universiteit Brussel

H26 Integrated optical unit employing a two-wavelength laser diode for a DVD/CD optical pickup O. Miyazaki, T. Ueyama, Y. Watanabe, H. Iwasaki, Y. Nakata, and Y. Kurata, *Brazinian Taghnology*, Davidonment Contor

and Y. Kurata, Precision Technology Development Center, Sharp Corporation

H27 Diffractive white light diffuser with subwavelength structure

H. Tsukamoto and M. Nishiyama, Nikon Corp.

H28 Switching characteristics in a waveguide Mach-Zehnder interferometer with a ferro-electric liquid crystal cladding

K. Nakatsuhara, R. Hoshi, and T. Nakagami, *Kanagawa Institute of Technology*

H29 Assembly of microoptics with clipping structures in hybrid polymers

S. Obi¹, A. Stuck¹, M. Schnieper¹, S. Droz¹, R. Stanley¹, A. Kuoni², and N. D. Rocij², ¹CSEM Centre Suisse d'Electronique et de Microtechnique SA, ²IMT Institute of Microtechnology, University of Neuchâtel

H30 Feedback coupling module of optical transceiver using projecting core fiber

T. Fujita, M. Iima, M. Fushimi, S. Tsukamoto, Y. Obara, M. Kakimoto, K. Asai, A. Ichikawa, S. Arai, and A. Arimoto, *PENTAX Corporation*

H31 BPM analysis of a surface plasmon resonance waveguide sensor

J. Shibayama, T. Takeuchi, T. Yamazaki, J. Yamauchi, and

H. Nakano, Faculty of Engineering, Hosei University

Technical Sessions Tuesday, November 1

Engineering, KMITL

H32	Phase retrieval from quantized Fourier intensity using a modified multispectra method
	S. Yang, H. Ikeda, and H. Takajo, Faculty of Engineering,
H33	Oversampling method for phase retrieval from
	quantized Fourier intensity
	M. Itoh, S. Yang, and H. Iakajo, <i>Faculty of Engineering,</i>
L121	Ayushu institute ol rechnology
П34	wayoquide
	Y. Naoi, H. Okavama, and H. Nakajima, School of Science
	and Engineering. Waseda University
H35	Analysis of one dimensional photonic crystals with two
	defects for optical filter and sensor applications
	H. Mayditia ¹ , H. Hardhienata ¹ , H. Alatas ^{1,2} , A. A. Iskandar ² ,
	and M. O. Tjia ² , ¹ Theoretical and Computational Physics
	Laboratory, Department of Physics, Bogor Agricultural
	University, ² Photonics Group, Department of Physics,
	Institute Technology of Bandung
H36	Band structure design of a finite 1D optical grating
	A. A. Iskandal, W. fonall, W. O. Ijla, I. vali de voorde,
	Teknologi Bandung ² Department of Applied Mathematics
	University of Twente
H37	An intrinsic FFPI embedded silicon acceleration sensor
	using micromachining technology
	HC. Kwon ¹ , SW. Jang ¹ , DE. Kim ¹ , and SW. Kang ² ,
	¹ Department of Electronic Engineering, Kyungpook National
	University, ² School of Electronic and Electrical Engineering,
	Kyungpook National University
H38	A 1.20 to 1.60 μ m wavelength sensor using a structure of
	optical directional coupler
	K. Sae-tang and S. Somkuampanit, Faculty of Engineering,
H39	Sensitivity improvement of AWG spectroscopic sensor
	using parabola-shaped sample injection waveguide
	Y. Komai ¹ , H. Nagano ¹ , K. Okamoto ² , and K. Kodate ¹ ,
	¹ Japan Women's University, ² Okamoto Laboratory
H40	High time resolution distributed fiber-optic sensor
	based on optical pulse correlation measurement
	H. Song, I. Suzuki, M. Sako, and K. Nonaka, Department of
	Electronic and Photonic Systems Engineering, Kochi
L /1	Investigation of transmission property of optical
1141	resonator for effective frequency comb generation
	T Sugimoto ¹ M Yamamoto ¹ T Yamamoto ¹ T Shioda ¹
	Y. Tanaka ¹ , S. Mori ² , K. Higuma ² , and T. Kurokawa ¹ .
	¹ Graduate School of Technology, Tokyo University of
	Agriculture and Technology, ² New Technology Research
	Laboratories, Sumitomo Osaka Cement Co., Ltd.
H42	The maximum FSR and minimum HPBW prediction for
	the silicon based ring and racetrack microresonators
	3. Knuniaweelep and S. Somkuarnpanit, Faculty of

Tuesday, November 1

H43 Examination of tilt influence on readout signal quality from optical discs with different track pitch

J.-T. Huang and F.-H. Lo, Opto-Electronics & Systems Laboratories, Industrial Technology Research Institute

H44 Ultra fast face recognition optical parallel correlator for large scale database (several tens of thousands and over) -Discussion and prospect for general-purpose machine-

E. Watanabe, M. Ohta, M. Ishikawa, and K. Kodate, *Japan Women's University*

H45 Design and realization of a confocal micro optical distance sensor

P. Lücke¹, A. Last¹, J. Mohr¹, A. K. Ruprecht², C. Pruss², H. J. Tiziani², W. Osten², P. Lehmann³, and S. Schönfelder⁴, ¹Institut für Mikrostrukturtechnik (Forschungszentrum Karlsruhe), ²Institut für Technische Optik / Universität Stuttgart, ³Mahr GmbH, ⁴Boehringer Ingelheim microParts GmbH

- H46 Metameric mixed colors produced by diffractive optics N. Tossavainen¹, T. Vallius², and M. Kuittinen², ¹InFotonics Center, University of Joensuu, ²Department of Physics, University of Joensuu
- H47 White LED light incoupling using different refractive index radial gratings

S. Siitonen¹, P. Laakkonen¹, P. Vahimaa¹, N. Tossavainen², and M. Kuittinen¹, ¹Department of Physics, University of Joensuu, ²InFotonics Center, Department of Physics, University of Joensuu

H48 Boosting light transmission through interfaces using subwavelength Moth-eye structuring: nonstandard FDTD simulations

S. Banerjee¹, T. Yatagai¹, and J. B. Cole², ¹Institute ot Applied Physics, University of Tsukuba, ²Department of System and Information Engineering, University of Tsukuba

H49 Optimal design for fabricating Dammann color separation grating (DCSG) using rigorous coupled wave analysis (RCWA)

M. Nagayoshi¹, K. Oka², Y. Komai¹, W. Klaus³, and K. Kodate¹, ¹Japan Women's University, ²Production Engineering Research Laboratory, Hitachi Ltd., ³National Institute of Information and Communications Technology

- H50 Molecular beam epitaxy of wurtzite GaN and β-Ga₂O₃ on transparent and conductive β-Ga₂O₃ substrates
 E. G. Villora¹, K. Shimamura¹, K. Aoki², and K. Kitamura¹, ¹National Institute for Materials Science, ²Koha Co., Ltd.
- H51 Enhanced transmission of subwavelength slit on tapered metallic structure
 J.-Y. Chang, C.-M. Wang, H.-I Huang, and C.-C. Chao,

Institute of Optical Sciences, National Central University

H52 Plasmonic band gap engineering for lasing applications J. Simonen^{1,2}, T. Okamoto¹, F. H'Dhili¹, and S. Kawata^{1,3}, ¹*RIKEN, Nanophotonics Laboratory,* ²*Department of Physics, University of Joensuu,* ³*Department of Applied Physics, Osaka University*

Technical Sessions Tuesday, November 1

H53	Rigorous Fourier modal analysis on slab structures with finite thickness and one-dimensional arbitrary permittivity and permeability profiles
	H. Kim and B. Lee, School of Electrical Engineering, Seoul
H54	Inational University
1134	for two-dimensional binary grating structures with
	nermeability
	H. Kim, Im. Lee, and B. Lee, School of Electrical
	Engineering, Seoul National University
H55	Nanodomain engineering of LiNbO3 and LiTaO3 by
	focused ion beam
	X. Ll ¹ , K. Terabe ¹ , H. Hatano ^{1,2} , and K. Kitamura ¹ , ¹ National
	Institute for Materials Science, ² Laboratory I Advanced
	Devices Department, R&D group, Pioneer Corporation
H56	Fabrication and optical evaluation of a microsphere
	K Vamaguchi M Haraguchi T Okamoto and M Eukui
	Iniversity of Tokushima
H57	Rare-earth-doped organic/inorganic optical
	nanocomposite: luminescence property control
	H. Mataki and T. Fukui, KRI, Inc.
H58	Nanoscale domain and surface engineering in
	ferroelectric LiNbO ₃ crystals
	X. Liu, K. Terabe, and K. Kitamura, National Institute for
1150	Materials Science
пра	disk nick up units
	A Yamaguchi ¹ Y Suzuki ² H Terasaki ² and S Ichiura ²
	¹ SANYO MAVIC media Co., Ltd., ² Frontier Devices
	Research Center, SANYO Electric Co., Ltd.
H60	Silicon-based subwavelength guided-mode resonance
	filter
	JY. Chang, CL. Hsu, YH. Chou, and CM. Wang,
1104	Institute of Optical Sciences, National Central University
H01	Quasi-phase matched Type II parametric down converter
	M Motoval ² S. Kurimural ³ V. Kata ³ V. Llaui ³ H. Nakaiima ³
	and S. Inoue ² ¹ National Institute for Materials Science
	² Nihon University. ³ Waseda University
H62	Simulation and observation of resonance modes in a Si
	micro-cubic cavity couples with a Ge:SiO ₂ waveguide
	K. Okada ¹ , H. Kasa ¹ , K. Kintaka ² , and K. Hirao ³ , ¹ New Glass
	Forum, ² National Institute of Advanced Industrial Science
	and Technology, ³ Kyoto University
H63	Cascaded high-efficiency InGaAs QW DBR lasers for
	S Nozu T Ishida M Homukai and T Subara Creducta
	School of Engineering. Osaka University

Tuesday, November 1

H64 Light fields generated by microlenses with amplitude stops,

T. Scharf¹, P. Ruffieux¹, W. Noell¹, R. Völkel², and C. Rockstuhl³, ¹Institute of Microtechnology, University of Neuchâtel, ²SUSS MicroOptics, ³Friedrich Schiller University Jena, Institute for Solid State Theory and Optics

H65 One-dimensional composite meta-material structures formed by mixing positive and negative refractive index media

I.-m. Lee, H. Kim. S. Kim, and B. Lee, *School of Engineering, Seoul National University*

Break (16:00-16:10)

Yodoshinano Hall

16:10-17:55	Session J: Nano-structures
Chairs:	W. A. Challener, Seagate
	S. Tsuji, Hitachi Ltd.

J1 Diamond based photonic crystal microcavities

- 16:10 S. Tomljenovic-Hanic¹, M. J. Steel^{1,2}, C. Martijn de Sterke¹, and J. Salzman³, ¹ARC Centre of Excellence for Ultrahigh-bandwidth Devices for Optical Systems (CUDOS), and School of Physics, University of Sydney, ²RSoft Design Group, Inc., ³Department of Electrical Engineering, Technion, Israel University of Technology
- J2 Reducing propagation loss of photonic crystal 16:25 waveguide by sedimentation of three-dimensional microspheres

Y.-L. Tsai, C.-C. Chen, J.-Y. Chang, and C.-L. Hsu, *Institute* of Optical Sciences, National Central University

J3 High-order mode waveguide of one-dimensional 16:40 photonic crystals

S. Kittaka¹, T. Nakazawa¹, K. Tsunetomo¹, and J. Nishii², ¹Technical Research Laboratory, Nippon Sheet Glass Co., Ltd., ²National Institute of Advanced Industrial Science and Technology

J4 Self assembly quantum dots in semiconductors for 16:55 telecom application in the 1500 nm region (Invited)

- R. Noetzel, *Eindhoven University of Technology*
- J5 Quantum dot optoelectronic devices (Invited)
- 17:25 Q. Gao, Australian National University

Refreshment (17:55-18:25)

18:25-20:10Session K: Optical Signal Processing and FibersChairs:B. Lee, Seoul National University

M. Nishimura, Sumitomo Electric Industries, Ltd.

K1 High capacity transmission via multimode optical fibers 18:25 (Invited)

- R. Penty, Cambridge University
- K2 High bandwidth W-shaped POF
- 18:55 K. Takahashi, T. Ishigure, and Y. Koike, *Graduate School ot* Science and Technology, Keio University

Tuesday, November 1

K3	High-speed wavelength switching of wavelength groups
19:10	using multiple sideband generation

E. Yamada, H. Sanjoh, M. Ishikawa, and Y. Yoshikuni, NTT Photonics Laboratories, NTT Corporation

- K4 Performance of two-bit of optical serial-to-parallel
 19:25 converter using cascaded electroabsorption modulators
 M. Ohkado, and H. Uenohara, *Microsystem Research Center, P&I Laboratory, Tokyo Institute of Technology*
- K5 Simultaneous 2R regeneration of two 10-Gbps Signals 19:40 using a single self-injection locked Fabry-Perot laser diode

H. M. Nguyen¹ and S. Yamashita², ¹Department of Frontier Informatics, Graduate School of Frontier Sciences, University of Tokyo, ²Department of Electronics Engineering, School of Engineering, University of Tokyo

K6 Comparison of intensity-dependent index change below 19:55 the bandgap wavelength among bulk, quantum well and quantum wire incorporated GalnAsP waveguides

J.-K. Seo¹, T. Ishii¹, T. Mizumoto^{1,3}, H. Yagi^{2,3}, D. Plumwongrot², and S. Arai^{2,3}, ¹Department of Electrical and Electronic Engineering, Tokyo Institute of Technology, ²Quantum Nanoelectronics Research Center, Tokyo Institute of Technology, ³CREST, JST

20:10



Wednesday, November 2

Yodoshinano Hall

- 9:00-10:30Session L: Bio-optics and SensingChairs:M. López-Amo, Public University of Navarra
M. Haruna, Osaka University
- L1 Multi-photon micro-endoscopy (Invited)
- 9:00 M. J. Schnizer, Stanford University
- L2 Microsphere sorting using double well potential of 9:30 optical gradient force

Y. Hayashi, R. Fujimura, S. Ashihara, T. Shimura, and

K. Kuroda, Institute of Industrial Science, University of Tokyo

L3 Microoptical artificial compound eyes – two different 9:45 concepts for compact imaging systems

J. Duparré¹, P. Dannberg¹, A. Bräuer¹, R. Völkel², and T. Scharf³, ¹*Fraunhofer Institute Applied Optics and Precision Engineering IOF, Department Microoptical Systems,* ²SUSS MicroOptics SA, ³Institute of Microtechnology, *Applied Optics Laboratory*

L4 Modified point diffraction interferometer for corneal 10:00 topography

E. Acosta¹, F. Granados², and M. E. Percino², ¹*Faculty of Physics, University of Santiago de Compostela,* ²*Instituto Nacional de Astrofísica, Óptica y Electrónica*

L5 Integration of surface-emitting red DBR laser and 10:15 microfluidic structure for biomolecular sensing

M. Uemukai, H. Miyamoto, Y. Yamada, Y. D. Sharma, and T. Suhara, *Graduate School of Engineering, Osaka University*

Break (10:30-11:00)

11:00-12:30 Session M: VCSEL

- Chairs: R. Noetzel, *Eindhoven University of Technology* F. Koyama, *Tokyo Institute of Technology*
- M1 High power extended vertical cavity surface emitting
- 11:00 **laser and its application** (Invited) A. Mooradian, *Novalux, Inc.*

M2 Modelling of a high-speed polarization controller based 11:30 on injection-locked two-mode VCSEL

K. Hasebe, Y. Onishi, and F. Koyama, *Microsystem Research Center, Tokyo Institute of Technology*

- M3 Wavelength extension with cavity detuning in vertical 11:45 cavity surface emitting laser
 - K. Takeda, T. Miyamoto, T. Kondo, Y. Uchiyama,

A. Matsutani, T. Uchida, and F. Koyama, *Microsystem Research Center, P&I Laboratory, Tokyo Institute ot Technology*

M4 Micro/nano-optics in surface emitting lasers (Invited)

12:00 E. Johnson, CREOL, University of Central Florida

Lunch (12:30-13:50)

- **13:50-15:50** Session N: Display and Light Sources Chairs: A. Mooradian, *Novalux Inc.*
 - N. Nishida, University of Tokushima

Wednesday, November 2

N1 Ultra-miniature projector: a high-resolution, battery 13:50 powered laser display (Invited) M. Stern, Symbol Technologies, Inc. N2 Compensation for the photoelastic birefringence of 14:20 optical polymer by doping with anisotropic molecule H. Ohkita¹, K. Ishibashi², R. Tanaka², A. Tagaya^{1,2}, and Y. Koike^{1,2}, ¹ERATO Koike Photonics Polymer Project, Japan Science and Technology Agency, ²Faculty of Science and Technology, Keio University N3 beam quality continuous wave 3W Hiah green 14:35 generation in a bulk periodically poled MgO:LiNbO₃ H. Furuya, A. Morikawa, K. Mizuuchi, and K. Yamamoto, AV Core Technology Development Center, Matsushita Electric Industrial Co., Ltd. N4 Nonlinear optical device based on crystal quartz S. Kurimura¹, T. Yamada^{1,2}, and K. Hayashi², ¹National Institute for Materials Science, ²Nidek Co., Ltd. 14:50 N5 Improvement of luminous efficacv of 15:05 phosphor-converted white LED lamps N. Kimura¹, N. Hirosaki², K. Sakuma¹, S. Hirafune¹, K. Asano¹, and D. Tanaka¹, ¹Optics and Electronics Laboratory, Fujikura Ltd., ²Advanved Materials Laboratory, National Institute for Materials Science N6 Diffractive optical elements and subwavelength gratings 15:20 for display and optical switching (Invited) B. Lee, Seoul National University

Break (15:50-16:10)

16:10-16:40 Session PD: Post Deadline Papers

Q. Gao, Australian National University A. Arimoto, PENTAX Corp.

16:40-16:50 Closing Remarks

Program Co-chairs:

Chairs:

S. Yamashita, University of Tokyo K. Yamamoto, Matsushita Elect. Ind. Co., Ltd.

Break (16:50-17:10)

Matsuya Salon

- 17:10-18:30 Award Ceremony and Micro Concert
- 18:30-20:00 Conference Party

Check! Important Deadlines

Pre-Registration:September 20, 2005Post Deadline Papers:October 11, 2005Hotel Accommodations:October 1, 2005

Registration Fees

	Before/On	After
	Sept. 20, 2005	Sept. 21, 2005
Conference (General)	JPY 45, 000	JPY 50,000
(Student)	JPY 7,000	JPY 8,000
Extra Copy of Digest	JPY 6, 000	JPY 6,000

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Pre-registration, by **September 20, 2005**, is encouraged and will be entitled to reduced fees. Upon receipt of registration form and payment, MOC '05 Desk will send a letter of confirmation which should be presented at the Conference Registration Desk.

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The full amount of room charge will be billed after October 1, 2005.

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Akasaka Excel Hotel Tokyu	В	Single	16,900	1min. walk from "Akasaka-mitsuke" station
Villa Fontaine	С	Single	13,645	On "Roppongi 1-chome" station (3min. ride from "Nagata-cho" on "Namboku-line")
Toshi Contor	D-S	Single	12,500 **	3min. walk from
Hotel	D-T	Twin	21,000 **	station

* The above rates are per room, including service charge and consumption tax. Handling charge is not included. **Breakfast is included only for Toshi Center Hotel.

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2-7-5 Hirakawa-cho, Chiyoda-ku, Tokyo, 102-0093, Japan TEL: +81-3-3261-8386, FAX: +81-3-3261-5449 http://www.sabo.or.jp/map.htm (in Japanese)

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- 8-minute walk from "Akasaka-mitsuke" station on Tokyo Metro Marunouchi Line, Ginza Line.



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MOC '05 October 30 - November 2, 2005 at SABO KAIKAN Tokyo, Japan

Important Deadlines

Pre-Registration:September 20, 2005Post Deadline Papers:October 11, 2005Hotel Accommodations:October 1, 2005

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