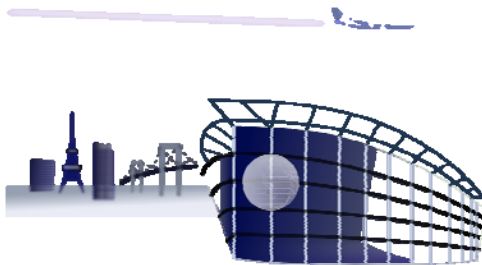


MOC '09



15th MICROOPTICS CONFERENCE

<http://www.comemoc.com/moc09/>

Sponsored by
The Japan Society of Applied Physics
Organized by
Microoptics Group, Optical Society of Japan, JSAP



- Technical co-sponsorship by*
- IEEE/Lasers and Electro-Optics Society
 - Optical Society of America
 - Electronics Society, IEICE
 - 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
 - 130th Committee on Optoelectronics, JSPS
- (* Some sponsors are under negotiation.)

Oct. 25 (Sun.)-Oct. 28 (Wed.), 2009

Miraikan

**(National Museum of Emerging Science and Innovation)
Odaiba, Tokyo, Japan**

OBJECTIVE

The 15th MICROOPTICS CONFERENCE (MOC '09) will be held at Miraikan (National Museum of Emerging Science and Innovation), Odaiba, Tokyo, Japan on October 25 - October 28, 2009. This conference is sponsored by the Japan Society of Applied Physics (JSAP) and organized by Microoptics Group, the Optical Society of Japan (OSJ), JSAP and in cooperation with several academic societies and associations.

The MOC '09 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.

CATEGORY

The category of the conference covers the following subjects of microoptics;

1. Theory, Modeling and Design

Aberrations, Dispersion, Beam optics, Guided-wave optics, Gradient-index optics, Diffractive optics, Photonic band, Slow light, Near-field optics, Nonlinear optics, Thermo-optics, Plasmonics, Simulation and System design, etc.

2. Materials and Fabrication

Semiconductors, Crystals, Dielectric materials, Polymers, Liquid crystals, Nonlinear materials, Composite materials, Nano-materials, Metals, Spin-materials, etc.

Diffusion and Ion exchange, Lithography and Etching, Thin film deposition, Micro- and Nano-fabrication, Nano-imprint, Laser fabrication, etc.

3. Measurements

Spectroscopy, Interferometry, Reflectometry, Femto-second measurement, 3D measurement, Quantum measurement, etc.

4. Passive Devices

Fibers, Waveguides, Multi/Demultiplexers, Add-drop multiplexers, Branching and mixing components, Photonic crystals, Filters, Microlenses, Diffractive optical elements, Isolators, Polarizers, etc.

5. Dynamic and Functional Devices

MEMS, Switches, Modulators, Tunable devices, Wavelength converters, Nonlinear optical devices, Deflectors, Optical buffers, etc.

6. Active Devices

Lasers, LEDs, VCSELs, Array lasers, Amplifiers, Terahertz devices, Sensors, etc.

7. Integration and Packaging

Monolithic and Hybrid integration, Mounting and packaging, Micro-assembly, Si photonics, 3D integration, etc.

8. Conception for Applications

High power, High speed, High efficiency, High field, High Density, High sensitivity, etc.

APPLICATION FIELD

The 15th MICROOPTICS CONFERENCE covers microoptics technologies in the following major topical fields;

A. Optical Communications

Photonic networks, Optical cross connects, LAN, VSR, SAN, FTTH, etc.

B. Optical Interconnects

Chip/Board/System, Data transfer, etc.

C. Optical Storages

Optical heads, Disks, Near-field recording, Holographic recording, Multi-layer recording, Super resolution, etc.

D. Optoelectronic Equipment

Printers, Image sensors, Digital cameras, Advanced microscopes, etc.

E. Optical Sensing and Processing

Optics for image recognition, Physical measurements, Sensors and sensing systems, Security systems, Optical computing, Bio- and Medical sensing, etc.

F. Displays and Lighting

LCD, PDP, FED, EL, Micromirror, Laser/LED displays, 3D displays, Solid state lighting, Illuminations, etc.

G. New Applications

Environmental and Energy optics, Bio- and Medical optics, Nano-photonics, Quantum systems, Next generation and Intelligent microoptics, Agricultural and Fishery optics, etc.

SUBMISSION OF PAPERS

Original papers that have not been previously presented and that describe new technical contributions to the areas covered by the technical descriptions in the aforementioned category will be accepted for presentation.

A detailed instruction will be available from the following Web site.

<http://www.comemoc.com/moc09/>

Papers should be submitted electronically no later than June 8 (Mon.), 2009. Authors will be requested to submit **2-page paper** written in English, including text, figures, tables, and references **within a frame of 17 cm x 24 cm**. The paper template will be available through the Web site.

POSTER SESSION

In addition to regular oral presentation sessions, poster presentation session will be planned to stimulate detailed explanation and discussion. The author(s) of papers will be informed of the size of bulletin board for displaying summary, figures, tables, etc., when selected as poster papers.

POST DEADLINE PAPERS

A limited number of post deadline papers will be accepted for presentation at post deadline sessions. Latest significant results obtained after the regular deadline are most welcome.

PAPER AWARDS

Some excellent contributed papers will be awarded at the award ceremony.

IMPORTANT PROGRAMS

Tutorial workshop will be held on Oct. 25 (Sun.).

A special session is planned on Oct. 26 (Mon.).

OFFICIAL LANGUAGE

The official language of MOC '09 is English.

LOCATION OF CONFERENCE SITE

The MOC'09 will take place at **Miraikan (National Museum of Emerging Science and Innovation)**, Odaiba, Tokyo, Japan. Odaiba is located in the Tokyo bay area and it takes 80 min. from the Narita international airport.

Miraikan 2-41, Aomi, Koto-ku, Tokyo, 135-0064 Japan

http://www.miraikan.jst.go.jp/index_e.html

ACCESS MAP



- Yurikamome Line
 - 5-minute walk from "Fune-no-kagakukan station"
 - 4-minute walk from "Telecom Center station"
- Rinkai Line:
 - 15-minute walk from "Tokyo Teleport station"
- Tokyo Metropolitan (Toei) Bus
 - 1-minute walk from "Nippon Kagaku Miraikan Mae"

FURTHER INFORMATION

The final call for papers will be issued in March 2009. The latest information on the conference will be also presented on the Web site.

<http://www.comemoc.com/moc09/>

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(Some members are under negotiation.)

Miraikan

The National Museum of Emerging Science and Innovation (Miraikan) is a new type of science museum that links people directly with the new wisdom of the 21st century. At the heart of Miraikan's activities is the cutting-edge science and technology. This is the "state-of-the-art knowledge and innovation" which Miraikan aims to share with the whole society as part of enriched human culture.



Odaiba

Odaiba is a large artificial island in Tokyo Bay, Japan, across the Rainbow Bridge from central Tokyo. It was initially built for defensive purposes in the 1800s, dramatically expanded during the late 20th century as a seaport district, and has developed since the 1990s as a major commercial, residential and leisure area.

Daiba formally refers to one district of the island development in Minato Ward. The "Odaiba" name is commonly used to refer to the entire Tokyo Waterfront Secondary City Center (*Tokyo Rinkai Fukutoshin*) which includes the Ariake and Aomi districts of Kōtō Ward and the Higashi-Yashio district of Shinagawa Ward.

