Final Call for Papers



26th MICROOPTICS CONFERENCE

http://moc2021.com/

Sponsored by

The Japan Society of Applied Physics (JSAP)

Organized by Microoptics Group, JSAP



Technically co-sponsored by IEEE Photonics Society

In cooperation with

The Optical Society of Japan IEICE Electronics Society IEEE Photonics Society Japan Chapter IEEE Photonics Society Kansai Chapter The Chemical Society of Japan The Society of Polymer Science, Japan The Laser Society of Japan Optoelectronics Industry and Technology Development Association Japan Optomechatronics Association Japan Photonics Council Hamamatsu City Shizuoka University

Sep. 26 (Sun.) - Sep. 29 (Wed.), 2021 Congress Center, ACT CITY Hamamatsu, Shizuoka, Japan

May 10 (Mon.) Paper Deadline: April 23 (Fri.), 2021

PLENARY TALKS

CIOMP, CAS / TU Berlin Dieter Bimberg, "Novel VCSEL Designs for the Next Generation of Photonic Systems"

Federico Capasso, "Multifunctional Flat Optics" Harvard Univ.

Tsutomu Hara. "Exploring Photonics" Hamamatsu Photonics

Katsumi Kishino. Sophia Univ. "InGaN-Based Nanocolumn Optical Devices"

INVITED TALKS

Kuo-Ping Chen, National Chiao Tung Univ. "Structural Colors and Lasers by Lattice Resonance in Silicon Nitride Metasurfaces"

Simon Fafard, Broadcom Semiconductors ULC "High Efficiency Photovoltaic Power Converters and Application to Optical Power Transmission"

Harald Haas, Univ. Strathclyde "Recent Advancements in Optical Wireless Communications"

Yuri Kivshar. Australian National Univ. "Metaphotonics and Metasurfaces Governed by Mie Resonances"

Jan Meijer,

Diamond"

Univ. Leipzig "Quantum Light Sources Using Color Centers in

Tyndall National Institute Peter O'Brien. "Photonics Packaging for Integrated Photonics, from Research to Pilot-Scale Manufacturing"

Univ. Stuttgart Wolfgang Osten, "Optical Metrology and Sensing in Times of Digital Transition"

Min Qiu, Westlake Univ. "Microscale Opto-Thermo-Mechanical Actuation in the Adhesive Regime"

Niels Quack, *Ecole Polytech. Fédérale de Lausanne* "Microoptics in Single Crystal Diamond"

Junsuk Rho, Pohang Univ. Sci. and Tech. "Artificial Chirality Evolution in Micro-/Nano-Scale 3D Plasmonic Metamaterials"

Fabio Sciarrino,Sapienza Univ. Roma"Transmission of Vector Vortex Beams in DispersiveMedia"

Jim Tatum, Dallas Quantum Devices "Commercialization of VCSELs"

SPECIAL SYMPOSIUM on SUNDAY "Photonics Progress Review" Sep. 26 (Sun.) 13:00 – 17:05

0) Introductory Talk Yoshimasa Kawata,

Shizuoka Univ.

 New Photonics Industries Starting from Shizuoka, JAPAN
 Yoshihiro Takiguchi, The Graduate School

for the Creation of New Photonics Industries

- Multi-Tap Time-Resolved CMOS Image Sensors and Their Applications
 Shoji Kawahito,
 Shizuoka Univ.
- 3) Photonic-Crystal Surface-Emitting Lasers and Their Application to LiDAR Susumu Noda, Kyoto Univ.
- 4) Development of 20-inch Photomultiplier Tube for Neutrino Experiments
 Yuji Yoshizawa, Hamamatsu Photonics
- 5) Clinical Near-Infrared Spectroscopy and Imaging Yoko Hoshi, Hamamatsu Univ. School Med.

OBJECTIVE

The 26th MICROOPTICS CONFERENCE (MOC2021) will be held at Congress Center, ACT CITY Hamamatsu in Shizuoka Prefecture. Japan on September 26 -September 29, 2021. This conference is sponsored by the Japan Society of Applied Physics (JSAP) and organized by Microoptics Group and in cooperation with several academic societies and associations. The MOC2021 is intended to provide a central forum for an and review of scientific and technical update information covering a wide range of Microoptics field from fundamental research to systems and applications. * After careful consideration of the serious influence of COVID-19, the MOC committee has decided to hold this conference in a hybrid format with both on-site and virtual versions to encourage many more people to participate in MOC2021.

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, Thermooptics, Plasmonics, Metal optics, Quantum optics/photonics, Biomimetic optics, Metaoptics, Simulation and system design, etc.

2. Materials and Fabrication

Semiconductors. Crystals, Dielectric materials. Polymers, Liquid crystals, Nonlinear materials. Composite materials, Nano-materials, Transparent conductors, Magneto-optic materials, Spin-materials, Metamaterials, Nanocarbons, etc. Micro- and nanofabrication. Nano-imprint. Laser processing. Heterogeneous bondina. 3D printina. Optical manipulation, etc.

3. Measurement and Sensing

Spectroscopy, Interferometry, Reflectometry, Ultrafast measurement, 3D measurement, Quantum measurement, LiDAR, etc.

4. EO/OE and Active Devices

Lasers, LEDs, VCSELs, Array lasers, Amplifiers, Photo detectors, Terahertz devices, Optical imaging sensors, Solar cells, Energy harvesting devices, etc.

5. Passive Devices

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

6. Dynamic and Functional Devices

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

7. Integration, Packaging, and Si photonics

Monolithic and hybrid integration, Mounting and packaging, Micro-assembly, Wafer-level assembly, 3D integration, etc.

8. System and Design Conception

APPLICATION FIELD

The 26th Microoptics Conference covers Microoptics technologies in the following major topical fields;

A. Optical Communications

Photonic networks, Optical routing, Advanced multiplexing, LAN, FTTH, Wireless optical communication, etc.

B. Optical Interconnects

Chip/board/system interconnects, Active optical cable, etc.

C. Optoelectronic Equipment

Optical storages, Laser and LED printers, Smart sensors, Advanced cameras, Advanced microscopes, etc.

D. Optical Sensing and Processing

Optics for image recognition, Physical measurements, 3D measurements, Sensors and sensing systems, Security systems, Optical computing, Bio- and medical sensing, Tomography, etc.

E. Displays and Lighting

LCD, Laser/LED/EL displays, MEMS displays, 3D displays, Projection displays, µ-LED displays, Wearable displays, AR/VR-glass, head mounted displays, Flexible displays, Solid state lighting, Illuminations, Appearance design and control, etc.

F. New Applications and Emerging Technologies

Green photonics, Environmental and energy optics, Bio- and medical optics, Nano-photonics, Quantum systems, Next generation and intelligent microoptics, Car optics, Agricultural and fishery optics, Optical wireless power transmission, AI and IoT, 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 on the following web site.

http://moc2021.com/

Papers should be submitted electronically no later than April 23 (Fri.) May 10 (Mon.), 2021. Authors will be requested to submit 2-page paper written in English, including texts, figures, tables, and references within a frame of 17 cm x 24 cm. The paper template available through the above website must be used for compliance with JSAP and IEEE Xplore formats.

ORAL SESSION

Oral session will be conducted in a hybrid format with both on-site and virtual versions. The detailed information will be announced on the web site.

POSTER SESSION

In addition to regular oral presentation sessions, a poster presentation session will be planned to stimulate detailed explanation and discussion. The format of the poster session is under consideration.

POST-DEADLINE PAPER

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

PAPER PUBLICATION

Accepted papers will be published in **IEEE Xplore** in addition to the conference technical digest. The authors will also have a chance to publish an extended, full-length version of the paper presented at MOC2021 in **a special issue of the JJAP**, which is an international journal published by the Japan Society of Applied Physics and IOP publishing. The special issue of the JJAP will be published in Aug. 2022.

PAPER AWARDS

The Best Paper Award will be given to several excellent contributed papers. Moreover, the Student Paper Award will be given to several excellent papers presented by students.

AWARD CEREMONY

Award ceremony will be held at the end of the conference.

MICROCONCERT AND CONFERENCE PARTY

Microconcert and conference party are under consideration for holding.

FINANCIAL SUPPORT FOR OVERSEAS STUDENTS

Limited financial support is considered for the presentations by students from overseas. Details will be announced on the website:

http://moc2021.com/

OFFICIAL LANGUAGE

The official language of MOC2021 is English.

CONTACT

MOC2021 Registration Desk

KINKI NIPPON TOURIST CORPORATE BUSINESS CO., LTD. Sumitomo-shoji Kanda-izumicho Bldg.13F, 1-13 Kanda-Izumi-cho, Chiyoda-ku, Tokyo 101-0024, Japan Phone: +81-3-6891-9354 E-mail: moc2021@or.knt.co.jp

CONFERENCE VENUE

The MOC2021 will take place at Congress Center, ACT CITY Hamamatsu, Shizuoka, Japan. It is located adjacent to Hamamatsu Station, the gateway to the city of Hamamatsu.

Congress Center, ACT CITY Hamamatsu

111-1 Itaya-machi, Naka-ku, Hamamatsu City, Shizuoka Prefecture, Japan Tel +81 53 451 1111 https://www.actcity.jp/pdf/actcity_pamphlet.pdf



About Hamamatsu

Hamamatsu is the largest city in Shizuoka Prefecture located about halfway between the and two metropolitan cities of Tokyo and Osaka. There are many tourist attractions of great historical and cultural significance including famous temples. historical landmarks, and Lake Hamana. A wide range of activities are also available at Hamamatsu: bathing in hot springs, cycling, marine sports, and industrial tours unique to the "City of Manufacturing." As for food, visitors will no doubt be satisfied with local specialty including gyoza dumplings, mikan oranges foods (mandarin oranges), and fresh local seafood like eels, oysters, and puffer fish. For detail on sightseeing, visit https://hamanako-tourism.com/en/

ACCESS

Centrally located between Tokyo and Osaka, Hamamatsu is only about 90 minutes away from either of the cities by Shinkansen. ACT CITY, an event center offering direct Shinkansen access, can be easily reached on a day trip from major cities in Japan.



FURTHER INFORMATION

The latest information on the conference will be presented on the web site:

http://moc2021.com/

REGISTRATION Registration Fees

	Before/On	After
	Aug. 23, 2021	Aug. 24, 2021
Conference (General)	¥47, 000	¥52, 000
(Student, Retiree)	¥17, 000	¥20, 000

* The conference fee includes admission to MOC2021 and a Technical Digest.

* Additional fee is needed for the conference party.

Those who wish to attend MOC2021 should register online at

http://moc2021.com/

MOC2021 Organizing Committee entrusts **KINKI NIPPON TOURIST CORPORATE BUSINESS CO., LTD.** with a part of the management. If you have any questions, please contact **MOC2021 Registration Desk KINKI NIPPON TOURIST CORPORATE BUSINESS CO., LTD.** Sumitomo-shoji Kanda-izumicho Bldg.13F, 1-13 Kanda-Izumi-cho, Chiyoda-ku, Tokyo 101-0024, Japan Phone: +81-3-6891-9354 E-mail: moc2021@or.knt.co.jp

All payment should be made in Japanese yen by one of the following methods:

1. Bank transfer

(For overseas attendees)
Bank Name: Sumitomo Mitsui Banking Corporation Suzuran Branch (Branch Code: 760)
Account Name: Kinki Nippon Tourist Corporate Business Co., Ltd.
Account No.: Current Deposit No. 7300648
Swift Code: SMBCJPJT
(For domestic attendees)
三井住友銀行 すずらん支店 (店番号 760)
口座番号: 当座 7300648
口座名:株式会社近畿日本ツーリストコーポレートビジネス カ)キンキニッポンツーリストコーポレートビジネス

2. Credit card

Master Card, VISA, American Express, Diners Club and JCB are available. Personal checks are NOT accepted. Pre-registration, by **August 23, 2021**, is encouraged and will be entitled to reduced fees. Upon receipt of registration information and payment, MOC2021 Registration Desk will send an e-mail of confirmation.

REGISTRATION CANCELLATION POLICY

No refunds of the registration fee will be made for any reasons whatever. In case of registrant unable to attend the conference, Technical Digest (PDF format) will be sent after the conference.

HOTEL ACCOMMODATIONS

KINKI NIPPON TOURIST CORPORATE BUSINESS CO., LTD. will be the official agent for hotel accommodations and other travel arrangements.

MOC2021 Accommodation Desk KINKI NIPPON TOURIST CORPORATE BUSINESS CO., LTD.

Open: Monday - Friday 9:30 am - 5:30 pm (Japan time) Closed: Saturdays, Sundays, and National holidays Phone: +81-3-6891-9354 E-mail: moc2021@or.knt.co.jp

Reservation should be made online no later than **August 30, 2021** at <u>http://moc2021.com/</u>. Hotel accommodation fee should be settled in advance. Method of payment is via credit card (Master Card, VISA, American Express, Diners Club and JCB are available.) or bank transfer.

Detailed information about hotel accommodations will be presented on the web site:

http://moc2021.com/

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