

Call for Papers

OWPT2019



The 1st Optical Wireless and Fiber Power Transmission Conference

April 23 (Tue.) - 25 (Thu.), 2019

PACIFICO Yokohama, Japan

<https://owpt.opicon.jp/>

Sponsored by

Optical Wireless Power Transmission Committee,
The Laser Society of Japan

In cooperation with

- Study Group of Optical Wireless Power Transmission
- IEEJ High Power Light Source and Applied System Survey Committee
- JSPS The 125th Com. on Mutual Conversion between Light and Electricity
- JSPS The 130th Com. on Optoelectronics
- JSPS The 175th Com. on Innovative Photovoltaic Power Generating Systems
- IEICE Technical Committee on Lasers and Quantum Electronics
- JSAP Microoptics Group
- JSAP Photonics Division



OWPT2019 will be held as one of conferences of the
OPTICS & PHOTONICS International Congress 2019
(OPIC2019).

Extended: Jan. 31 (Thu.), 2019

Paper Deadline: Dec. 14 (Fri.), 2018

INTRODUCTION

Optical Wireless and Fiber Power Transmission Conference (OWPT) is an international conference on optical wireless power transmission, optical fiber power transmission, and related technologies. The 1st Optical Wireless and Fiber Power Transmission Conference (OWPT2019) will be held on April 23 (Tue.) - 25 (Thu.), 2019 in Yokohama, Japan, at PACIFICO Yokohama as one of conferences of the OPTICS & PHOTONICS International Congress 2019 (OPIC2019). The OWPT2019 is intended to provide a central forum for the update and review of scientific and technical information on optical wireless power transmission and optical fiber power transmission covering a wide range of fields from fundamental research to systems and applications. The conference is sponsored by Optical Wireless Power Transmission Committee, The Laser Society of Japan in cooperation with several academic societies and associations.

SCOPE

Optical wireless and fiber power transmission conference covers optical power transmission technologies and its related subjects as shown in the following fields;

A. Device and components

Light sources, Solar cells / photovoltaic power converters, Optical components, Modules, Theory, Design, Material, and Fabrication process etc.

B. Systems and subsystems

Optical wireless / fiber power transmission, Non-optical wireless power transmission, Communication for optical power transmission, and Safety system etc.

C. Applications

IoT, Automotive and vehicles, Drone, Robot, Medical implantable, Consumer / industrial equipment, Under water, Harsh environment, and Space solar power system etc.

D. Others

Standardization, Regulations, and Novel / emerging topic related to the OWPT conference.

PLENARY TALKS

H. Helmers Fraunhofer ISE

"Highly efficient III-V based photovoltaic laser power converters"

O. Alpert Wi-Charge Ltd.

"Wireless power delivery solution by invisible infrared light beam - New applications open for homes, offices, factories and public spaces -"

SPECIAL TALKS

K. Ueda Univ. Electro-Communications

"Concept of power supply to new era vehicles by laser beam"

N. Shinohara Kyoto Univ.

"Advanced microwave wireless power transmission technology and its prospects"

INVITED TALKS

S. Fafard Broadcom Inc.

"Ultrahigh efficiencies laser power converter products based on the Vertical Epitaxial HeteroStructure Architecture (VEHSA) design"

M. Perales MH GoPower Company Ltd.

"Low cost laser power beaming and power over fiber systems"

M. Matsuura Univ. Electro-Communications

"60W power-over-fiber for remote antenna units"

T. Tokuda NAIST

"1 mm³-sized optical neural stimulator based on CMOS integrated photovoltaic power receiver"

T. Umezawa NICT

"100 GHz optical-to-radio converter module adopting power over fiber transmission"

T. Shimada Trimatiz Ltd.

"Aqua local area network: ALAN"

T. Motohiro Nagoya Univ.

"Development of compact solar-pumped laser systems and their application to transport of solar energy for photovoltaics"

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 scope will be accepted for presentation. A detailed instruction will be available from the conference Web site.

<https://owpt.opicon.jp/>

Papers should be submitted no later than **Dec. 14 (Fri.), 2018** **Jan. 31 (Thu.), 2019 (extended deadline)**. Authors will be requested to submit **2-page paper** written in English, including text, figures, tables, and references. 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 (*Under consideration)

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.

CONFERENCE VENUE

The OWPT2019 takes place at PACIFICO Yokohama, Yokohama city, Kanagawa prefecture, JAPAN. Yokohama city, the center of Kanagawa prefecture is located south of Tokyo. PACIFICO Yokohama is conveniently located about 40 min. by Limousine Bus from Haneda Airport and 90 min. from Narita Airport.

PACIFICO Yokohama

1-1-1 Minato Mirai, Nishi-ku, Yokohama 220-0012, Japan
<http://www.pacifico.co.jp/english/index.html>



REGISTRATION

Registration Fees (Membership)

| | Before/On Apr. 8, 2019 | After Apr. 8, 2019 |
|-------------------------|---------------------------|-----------------------|
| General | ¥55,000 | ¥60,000 |
| Student, Retiree | ¥18,000 | ¥21,000 |

Registration Fees (Nonmember)

| | Before/On Apr. 8, 2019 | After Apr. 8, 2019 |
|-------------------------|---------------------------|-----------------------|
| General | ¥65,000 | ¥70,000 |
| Student, Retiree | ¥21,000 | ¥23,000 |

In OPTICS & PHOTONICS International Congress 2019 (OPIC2019), fourteen international conferences are going to be held simultaneously. By registering for OWPT2019, you can participate in all international conferences, but abstract of other conferences are not included.

<https://opicon.jp/ja/conferences>

EXHIBITION

OPTICS & PHOTONICS International Exhibition (OPIE'19) will be held simultaneously on April 24 (Wed) - 26 (Fri), 2019 at PACIFICO Yokohama.

OFFICIAL LANGUAGE

The official language of OWPT2019 is English.

FURTHER INFORMATION

The latest information on the conference will be announced on the Web site:

<https://owpt.opicon.jp/>

CONTACT

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OWPT2019 Conference co-chair

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OWPT2019 COMMITTEE MEMBERS

Organizing Committee

Conference Co-chairs

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N. Yokouchi (American Furukawa Inc.)

Members

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T. Maruyama (Kanazawa Univ.)
M. Arai (Univ. of Miyazaki)
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M. Matsuura (Univ. Electoro-Communications)
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N. Mori (Yamashita Denso. Corp.)
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K. Tadatomu (Yamaguchi Univ.)
T. Takagi (Samsung R&D Inst. Japan)
T. Takeuchi (Meijo Univ.)
T. Tayagaki (AIST)
Y. Tohmori (Tsurugi-Photonics Foundation)
Y. Ushida (Toyoda Gosei)
S. Uchida (Chiba Inst. Tech.)
H. Yamada (Tohoku Univ.)
T. Yamaguchi (Kogakuin Univ.)
K. Yokomori (NPEO)
(Some members are under negotiation.)