

Call for Papers

OWPT2022



The 4th Optical Wireless and Fiber Power Transmission Conference

April 18 (Mon.) - 21 (Thu.), 2022
Online/Venue hybrid, in Japan
(Venue: PACIFICO Yokohama)

<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



OWPT2022 will be held as one of conferences of the OPTICS & PHOTONICS International Congress 2022 (OPIC2022).

Paper submission deadline: Jan. 14 (Fri.), 2022
Extended deadline: Feb. 4 (Fri.), 2022
(ver. 20220125)

INTRODUCTION

The 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 4th Optical Wireless and Fiber Power Transmission Conference (OWPT2022) will be held on April 18 (Mon.) - 21 (Thu.), 2022 as an online/venue hybrid conference in Japan as one of the conferences of the OPTICS & PHOTONICS International Congress 2022 (OPIC2022).

The OWPT Conference is intended to provide a central forum for updating and reviewing scientific and technical information on optical wireless power transmission and optical fiber power transmission by covering a wide range of fields from fundamental researches to systems and applications.

This conference is sponsored by the Optical Wireless Power Transmission Committee, The Laser Society of Japan in cooperation with several academic societies and associations.

PLENARY TALK

Simon Fafard (Broadcom)

'High efficiency photovoltaic devices and applications'

SPECIAL TALKS

Hatem Zeine (Ossia)

'TBD'

INVITED TALKS

Ortal Alpert (Wi-Charge Ltd.)

'TBD'

Henning Helmers (Fraunhofer)

'Photonic power converters for telecom wavelengths'

Satoshi Kamiyama (Meijyo Univ.)

'Crystal grow and characterization of nitride-based multi-quantum shell/nanowire lasers'

Tom Nugent (PowerLight Technologies)

'TBD'

Carmen Vázquez (Universidad Carlos III de Madrid)

'Power over fiber in support of C-RAN 5G cellular networks'

Dinh Hoa Nguyen (Kyushu Univ.)

'Bidirectional optical wireless power transfer via optical transceivers'

Yasuhiko Takeda (Toyota Central R&D Labs., Inc.)

'Light trapping for temperature-insensitive high-efficient laser power converters'

Hiromichi Imai (SoftBank Inc.)

'Beam-tracking technology developed for free-space optical communication and its application to optical wireless power transfer'

Qingwen Liu (Tongji University)

'Mobility and networking of resonant beam charging'

Mitchell Cox (University of the Witwatersrand)

'Wireless optical communication with structured light'

Some additional invited speakers are under negotiation.

SCOPE

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

A. Devices and components

Light sources, Solar cells / photovoltaic devices, 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, Consumer/industrial equipment, Automotive and vehicles, Drone, Robot, Medical implantable, Under water, Harsh environment, and Space solar power system etc.

D. Others

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

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 conference 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 through the below Web site no later than **Jan. 14 (Fri.), 2022**. 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.

<https://owpt.opicon.jp/paper-submission/>

POSTER SESSION

In addition to regular oral presentation sessions, poster presentation session will be planned to stimulate detailed explanation and discussion. Poster session is planned using e-poster system.

POST DEADLINE PAPERS

Call for post deadline (PD) papers will change depending on the status of the regular submission papers. Please check the OWPT web site before consideration of submitting a PD paper.

OFFICIAL LANGUAGE

The official language of OWPT conference is English.

CONFERENCE VENUE

The OWPT2022 will be held as an **online/venue hybrid conference**. You can attend the conference online or by coming to the below conference venue.

In the case coming to the conference venue, OWPT2022 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

Details are under consideration. Please check registration site.

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

Membership

	Before/On Apr. 7, 2022	After Apr. 7, 2022
General	¥50, 000	¥55, 000
Student (presenter), Retiree	¥13, 000	¥16, 000
Student (no-presenter)	¥2,000	¥2,000

Nonmember

	Before/On Apr. 7, 2022	After Apr. 7, 2022
General	¥60, 000	¥65, 000
Student (presenter), Retiree	¥16, 000	¥18, 000
Student (no-presenter)	¥2,000	¥2,000

*To apply as a student, you need a recommendation from your supervisor.

*There is an additional fee to attend the welcome reception and conference banquet.

In OPTICS & PHOTONICS International Congress 2022 (OPIC2022), **15 international conferences** are going to be held simultaneously. By registering for OWPT2022, **you can participate in all international conferences**, but abstract of other conferences are not included.

<https://opicon.jp/conferences>

EXHIBITION

OPTICS & PHOTONICS International Exhibition (OPIE'22) will be held on **April 20 (Wed.) - 22 (Fri.), 2022** at PACIFICO Yokohama, Japan.

FURTHER INFORMATION

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

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

CONTACT

Please contact from Web site.

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

or

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RESULTS OF PREVIOUS OWPT

OWPT2021 (online conference)

Number of Papers: 45 / Domestic: 24, Overseas: 17

Number of Participants: 117 / Domestic: 59, Overseas: 58

OWPT2020 (only distribution of Technical Digest)

Number of Papers: 37 / Domestic: 26, Overseas: 11

Number of Participants: 50 / Domestic: 33, Overseas: 17

OWPT2019

Number of Papers: 56 / Domestic: 40, Overseas: 16

Number of Participants: 90 / Domestic: 66, Overseas: 24

The detail of the previous Optical Wireless and Fiber Power Transmission Conference (OWPT) was shown in "About" menu of conference web site;

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

OWPT2022 COMMITTEE MEMBERS

Organizing Committee

Co-chairs

T. Miyamoto	(Tokyo Tech)
T. Maruyama	(Kanazawa Univ.)

Members

M. Matsuura	(Univ. Electro-Communications)
K. Ogawa	(Japan Women's Univ.)

Other members are under negotiation.

Program Committee

Co-chairs

M. Matsuura	(Univ. Electro-Communications)
K. Ogawa	(Japan Women's Univ.)

Members

M. Arai	(Univ. of Miyazaki)
S. Fafard	(Broadcom)
G. Hatakoshi	(Waseda Univ.)
H. Helmers	(Fraunhofer ISE)
M. Hirota	(Kyushu Univ.)
K. Ikeda	(CRIEPI)
A. Ishibashi	(Hokkaido Univ.)
T. Kageyama	(Lumentum)
V. Khorenko	(AZUR SPACE Solar Power)
C. Klamouris	(Fibergy)
M. Kohtoku	(Furukawa Electric)
W. Kubo	(TUAT)
S. Miyajima	(Tokyo Tech)
M. Miyoshi	(Nagoya Inst. Tech.)
N. Mori	(Yamashita Denso. Corp.)
T. Nugent	(PowerLight Technologies)
J. B. Rosolem	(CPQD)
J. Sheldakova	(Inst. Geosphere Dynamics RAS)
S. J. Sweeney	(Univ. of Surrey)
T. Takeuchi	(Meijo Univ.)
S. Uchida	(Chiba Inst. Tech.)
J. Wu	(MH GoPower Company Ltd.)
K. Yokomori	(NPEO)
T. Yamaguchi	(Kogakuin Univ.)