

Call for Papers

OWPT2024



The 6th Optical Wireless and Fiber Power Transmission Conference

April 23 (Tue.) - 26 (Fri.), 2024
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



OWPT2024 will be held as one of conferences of the
OPTICS & PHOTONICS International Congress 2024
(OPIC2024).

Paper submission deadline:
Extended to Jan. 4 (Thu.), 2024

(ver. 20231218)

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 6th Optical Wireless and Fiber Power Transmission Conference (OWPT2024) will be held on April 23 (Tue.) - 26 (Fri.), 2024 as an online/venue hybrid conference in Japan as one of the conferences of the OPTICS & PHOTONICS International Congress 2024 (OPIC2024).

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 research to systems and applications.

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

PLENARY TALKS

Carmen Vázquez (Universidad Carlos III de Madrid)
“Power over Fiber as enabler in 6G optical fronthaul”

SPECIAL TALKS

TBD (U.S. Naval Research Laboratory)
“The first demonstration of laser power beaming in orbit”

INVITED TALKS

Makoto Miyoshi (Nagoya Institute of Technology)
“Near-UV photoelectric transducers for OWPT systems based on GaInN multiple quantum-well structures”

Masaki Wada (NTT)
“Power-over-Fiber transmission using a 125- μ m cladding diameter 4-core fiber”

J. B. Rosolem (Centro de Pesquisa e Desenvolvimento em Telecomunicações (CPQD))
“Power-over-Fiber applied for in-flight entertainment system”

Takeo Maruyama (Kanazawa University)
“Optical wireless power transmission for moving object using image recognition”

Karin Hinzer (University of Ottawa)

“C-band multi-junction photonic power converters: AI techniques for optimized designs and role of luminescent coupling”

John Geisz (National Renewable Energy Laboratory)

“High irradiance photoconversion using multijunction photovoltaic devices”

Arismar Cerqueira Sodré Junior (National Institute of Telecommunications (Inatel))

“Wireless and optical convergent access towards 6G”

Masoud Harooni (IPG Photonics Corporation)

TBD

SCOPE

The 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, Fabrication process, etc.

B. Systems and subsystems

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

C. Applications

IoT, Consumer/industrial equipment, Automotive and vehicles, Drone, Robot, Medical implantable, Underwater, Harsh environment, 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. Detailed instructions 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. 4 (Thu.), 2024** ~~Dec. 18 (Mon.), 2023~~. Authors will be requested to submit a **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/>

This year's paper submission deadline will be one month earlier than in the past.

Notice: The OWPT2024 abstract will be published as an Abstract Book in the SPIE Digital Library.

POSTER SESSION

In addition to regular oral presentation sessions, poster presentation sessions will be planned to stimulate detailed explanations and discussion. The poster session will be held at the venue only.

POST DEADLINE PAPERS

~~A limited number of post-deadline (PD) papers will be accepted for presentation. Papers should be submitted to Program co-chairs (ike-ken@cripi.denken.or.jp; arai.masakazu@cc.miyazaki-u.ac.jp) as an attached file before the deadline.~~

For this OWPT2024, the Program Committee Co-Chairs have decided not to accept post deadline papers.

OFFICIAL LANGUAGE

The official language of the OWPT conference is English.

CONFERENCE VENUE

The OWPT2024 will be held as an **online/venue hybrid conference**. You can attend the conference online or by coming to the below conference venue.

The OWPT2024 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
<https://www.pacifico.co.jp/english>



REGISTRATION

Registration Fees

Membership

	Before/On Apr. 8, 2024	After Apr. 9, 2024
General	JPY 56,000	JPY 61,000
Student (presenter), Retiree	JPY 19,000	JPY 22,000

Nonmember

	Before/On Apr. 8, 2024	After Apr. 9, 2024
General	JPY 66,000	JPY 71,000
Student (presenter), Retiree	JPY 22,000	JPY 24,000

*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 2024 (OPIC2024), over 11 international conferences are going to be held simultaneously. By registering for OWPT2024, 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'23) will be held on **April 24 (Wed.) - 26 (Fri.), 2024** 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

OWPT2023 (hybrid conference)

Number of Papers: 46 / Domestic: 26, Overseas: 20

Number of Participants: 91 / Domestic: 54, Overseas: 37

OWPT2022 (hybrid conference)

Number of Papers: 39 / Domestic: 21, Overseas: 18

Number of Participants: 83 / Domestic: 50, Overseas: 33

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/>

OWPT2024 COMMITTEE MEMBERS

Organizing Committee

Co-chairs

T. Miyamoto	(Tokyo Tech)
M. Matsuura	(Univ. Electro-Communications.)

Steering Committee

Chair

K. Ogawa	(Japan Women's Univ.)
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Program Committee

Co-chairs

K. Ikeda	(Central Research Institute of Electric Power Industry)
M. Arai	(Univ. of Miyazaki)

Members

S. Fafard	(Broadcom Inc.)
G. Hatakoshi	(Waseda Univ.)
H. Helmers	(Fraunhofer)
M. Hirota	(Kyushu Univ.)
N. D. Hoa	(Kyushu Univ.)
A. Ishibashi	(Hokkaido Univ.)
T. Kageyama	(Lumentum Japan)
V. Khorenko	(AZUR SPACE Solar Power)
Q. Liu	(Tongji Univ.)
M. Miyoshi	(Kyushu Univ.)
N. Mori	(Yamashita Denso)
J. B. Rosolem	(CPQD)
S. J. Sweeney	(Univ. Glasgow)
S. Uchida	(Chiba Inst. Tech.)
N. Uchiyama	(Tohoku Univ.)
C. Vázquez	(Univ. Carlos III de Madrid)
C.-L. Wu	(MH GoPower)
T. Yamaguchi	(Kogakuin Univ.)
K. Yokomori	(NPEO)
N. Yokouchi	(Furukawa Electric)
S. Fafard	(Broadcom Inc.)
G. Hatakoshi	(Waseda Univ.)
H. Helmers	(Fraunhofer)