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Optoelectronics Industry and Technology

The optoelectronics industry technology is expected to continuously create new added value across various industrial fields, including information communication and processing, automotive and mobility, displays and solid-state lighting, imaging and printing, laser and optical processing, photovoltaic energy, and sensing and measurement.

Furthermore, by effectively utilizing this optoelectronics industry technology, it is anticipated to significantly contribute to new social systems such as the development of advanced information industries driven by AI technology and distributed information processing, the realization of a global low-carbon society and energy security, the establishment of a highly secure society like safety in autonomous driving and crime prevention, the creation of virtual living spaces enabled by advanced sensor, image processing and display technologies. The optoelectronics industry in the world is supported by innovation of optoelectronics technology and continues to expand greatly.

Mission

OITDA actively engages in the wide range of activities, such as conducting research and studies, promoting technological development, and advancing standardization, in order to meet the high expectations for optoelectronics industry and technology that will support the society in the future.

Research and Study

Technology Development

Standardization
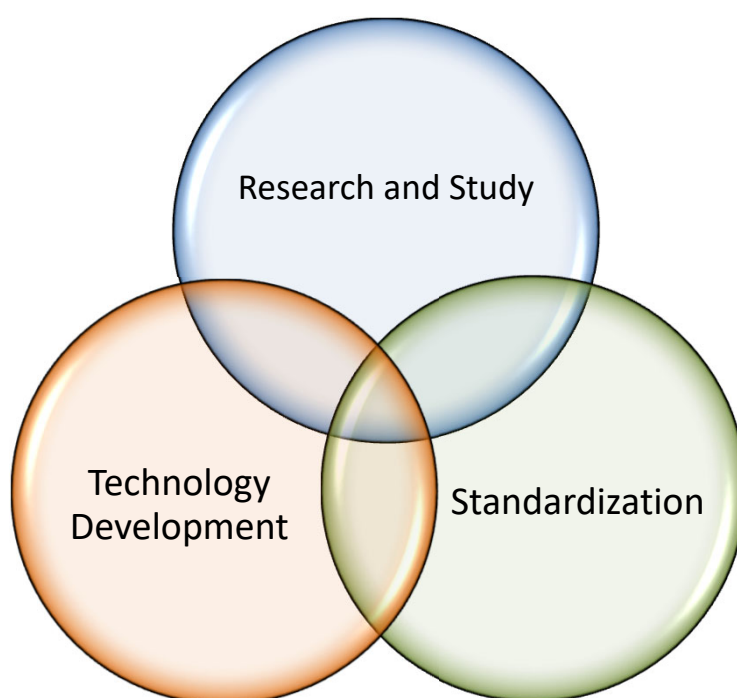
About Us

Name : Optoelectronics Industry and Technology Development Association(OITDA)
Date of Establishment : July 25, 1980
Fund : 400 million yen
Board Member Companies:
Fujikura Ltd., Fujitsu Limited, Furukawa Electric Co., Ltd., Hitachi, Ltd.,
Mitsubishi Electric Corporation, NEC Corporation,
Nippon Sheet Glass Co., Ltd., Nippon Telegraph and Telephone Corporation,
Oki Electric Industry Co., Ltd., Sumitomo Electric Industries, Ltd.,
Toshiba Corporation

Research and Study

● Optoelectronics Technology Roadmaps

We formulate Optoelectronics Technology Roadmaps in order to identify the specific needs for optoelectronics technology in relevant fields (e.g. information-processing photonics, optical user interface, optical communication, optical processing and measurement), and clarify the direction and schedule for research and technology development to meet those needs.

● Optoelectronics Technology Trends

We investigate the current status and trends of optoelectronics technologies in Japan and abroad from a variety of perspectives and on a continuous basis. We aim to use the findings as guidelines for the future direction of research and development.

● Optoelectronics Industry Trends

We conduct a survey every year in order to analyze the present scale of total shipment and domestic production in the optoelectronics industry for indicating the direction of Japanese optoelectronics industries.

● Industry-Academia-Government Cooperation

Study groups established in OITDA work toward strengthening cooperation among industry, academia and government in various fields of optoelectronics. Study group members exchange the latest information and opinions on the relevant technologies available in Japan and abroad.

Technology DevelopmentStudy

● R&D Project

The optoelectronics industry should conduct research and development more vigorously in order to maintain its lead in this field. We plan and manage research and development projects in total, which cover every activity from the discovery of seeds in potential optoelectronics technology through to development for commercialization, drawing together the efforts of the industrial, academic and governmental sectors.

Standardization

● Optoelectronics Industry and Technology Standardization Society

It is critically important to take timely action in responding to standardization. With this in mind, the Optoelectronics Industry and Technology Standardization Society actively engages in creating domestic standards as well as international standards.

● Japanese Standardization

Since 1981, we have been contributing to the promotion of standardization by drafting Japanese Industrial Standards (JIS) related to optoelectronics. More than 300 JIS drafts that we laid down have been adopted as official standards. We also develop "OITDA standards" to promote international standardization.

● International Standardization ISO/IEC

We have established national committees in Japan that correspond to the International Organization for Standardization (ISO) and the International Electrotechnical Commission (IEC).

We send experts to ISO/TC 172/SC 9 (Laser and electro-optical systems) and IEC/TC 76 (Optical radiation safety and laser equipment). We fulfill our duties through the activities of these committees, by submitting drafts of international standards and holding international conferences in Japan.

Awards, Education and Disseminations

● Awards

・Awarding the Kenjiro Sakurai Memorial Prize to individuals and groups who have made significant contributions to the development of optoelectronics industrial technology. This prize was established as a memorial to the former executive director of OITDA, Dr. Kenjiro Sakurai, who played a major role in developing the optoelectronics industry.

● Education

・Laser Safety School: Providing educational programs on laser safety for people engaged in handling laser equipment, by inviting experts in the field as lecturers.

・Examination for Laser Equipment Engineers: Assessing the laser safety knowledge required for laser equipment engineers as well as safety managers and safety engineers; those who have passed the examination are registered at OITDA.

・Technical Advisor Institution: Providing the technical support necessary for starting new businesses in the field of optoelectronics.

● Disseminations

・Holding optoelectronics symposiums, monthly seminars and various other forums.

・Providing information on activities of OITDA by publishing Annual Technical Report and spreading OITDA WEB to the general public.

interOpto

interOpto is an international exhibition sponsored by OITDA, wherein remarkable new optoelectronics technology as well as laser, photonics and optoelectronics device products are displayed. Through this event, OITDA provides participants with the opportunity to collect information, exchange technologies and spread their corporate images.

OITDA also holds seminars for participants in interOpto.

OITDA supports ventures and small/medium enterprises to exhibit in interOpto and present at seminars.

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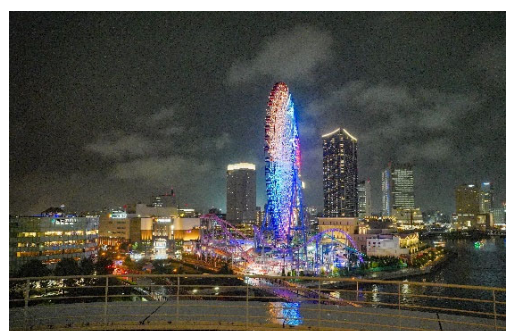
International Affairs

In order to gather the information about the technology and market trends regarding the optoelectronics industry, OITDA is conducting the activities such as exchanging the view of those trends as well as visiting the exhibitions.

< Market and Technology Trends >

Exchanging the information of market trends with SPIE(U.S.A.) and PIDA(Taiwan).

<Exhibitions>

Visiting the world influential exhibitions such as Photonics West, ECOC and OFC. Especially, we have booth exchange agreement with SPIE.

<Related Associations>

Optica(U.S.A.), SPIE(U.S.A.), Photons Canada(Canada), EPIC(EU), OptecBB(Germany), Photon DELTA(Netherland), Photonics France(France), Photonics Scotland(Scotland), Swiss Photonics(Switzerland), KAPID(South Korea), PIDA(Taiwan)

Supporting Members

[Construction]

Kajima Corporation

[Chemistry]

Dexerials Corporation

Fujifilm Corporation

Mitsubishi Chemical Holdings Corporation

Nissan Chemical Corporation

Shin-Etsu Chemical Co., Ltd.

Sumitomo Bakelite Co., Ltd.

Yamamoto Kogaku Co., Ltd.

[Glass & Ceramics]

Corning International K.K.

Nippon Sheet Glass Co., Ltd.

Sumitomo Osaka Cement Co., Ltd.

Toyo Glass Co., Ltd.

[Electric Wire & Cable]

Fujikura Ltd.

Furukawa Electric Co., Ltd.

Sumitomo Electric Industries, Ltd.

SWCC Corporation

[Machine]

Daikin Industries, Ltd.

[Electronics & Electronic Appliances]

AIO Core Co., Ltd.

Anritsu Corporation

Asahi Kasei Microdevices Corporation

Fujitsu Limited

Hakusan, Inc.

Hamamatsu Photonics K.K.

Hitachi, Ltd.

Honda Tsushin Kogyo Co.,Ltd.

Huawei Technologies Japan K.K.

Japan Aviation Electronics Industry, Ltd.

Kyocera Corporation

Lumentum Japan, Inc.

Mitsubishi Electric Corporation

NEC Corporation

NTT Electronics Corporation

Oki Electric Industry Co., Ltd.

Panasonic Projector & Display Corporation

Santec Holdings Corporation

SANWA Technologies, Inc.

Seiko Epson Corporation

Seiwa Electric Mfg. Co., Ltd.

Sony Group Corporation

Taiyo Yuden Co., Ltd.

Toshiba Corporation

Yokogawa Electric Corporation

[Precision Instrument]

I-Wave Corporation

Konica Minolta, Inc.

Nikon Corporation

Olympus Corporation

Ricoh Company, Ltd.

Seikoh Giken Co., Ltd.

Sigma Koki Co., Ltd.

Suruga Seiki Co., Ltd.

Topcon Corporation

Towa Laserfront Corporation

[Commercial & Advertisement]

Marubun Corporation

The Optronics Co., Ltd.

[Electric Power]

Central Research Institute of Electric Power Industry

[Other Manufacturing]

Dai Nippon Printing Co., Ltd.

Natsume Optical Corporation

Optoquest Co., Ltd.

Orbray Co., Ltd.

[Others]

Institute for Laser Technology

Japan Optomechatronics Association

Japan Science Foundation

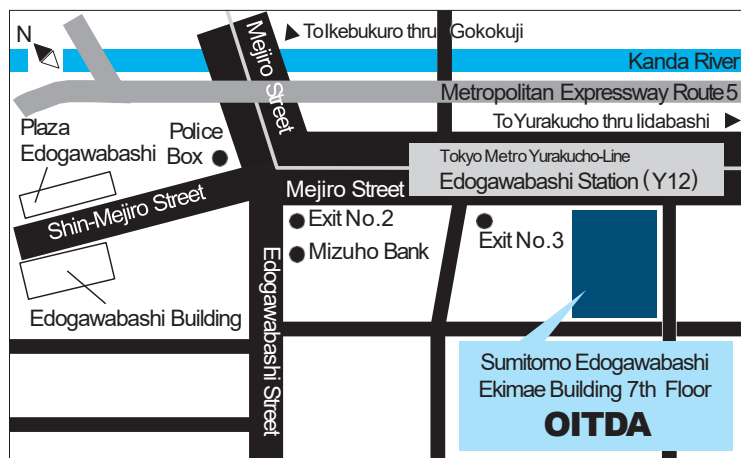Nippon Telegraph and Telephone Corporation

NTT Advanced Technology Corporation

Photonics Electronics Technology Research Association (PETRA)

UL Japan, Inc.

Yazaki Corporation

OITDA

Optoelectronics Industry and Technology
Development Association

Map showing OITDA location:
- N (compass)
- To Ikebukuro thru Gokokuji
- Mejiro Street
- Kanda River
- Metropolitan Expressway Route 5
- To Yurakucho thru Iidabashi ▶
- Plaza Edogawabashi
- Police Box ●
- Tokyo Metro Yurakucho-Line
- Edogawabashi Station (Y12)
- Shin-Mejiro Street
- Mejiro Street
- ● Exit No.2
- ● Mizuho Bank
- ● Exit No.3
- Edogawabashi Building
- Edogawabashi Street
- Sumitomo Edogawabashi Ekimae Building 7th Floor **OITDA**

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https://www.oitda.or.jp/en/