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日本フォトリクス協議会

Non Profit Organization

**Japan Photonics Council**

# 2014 Activity

## Japan Photonics Council (JPC)

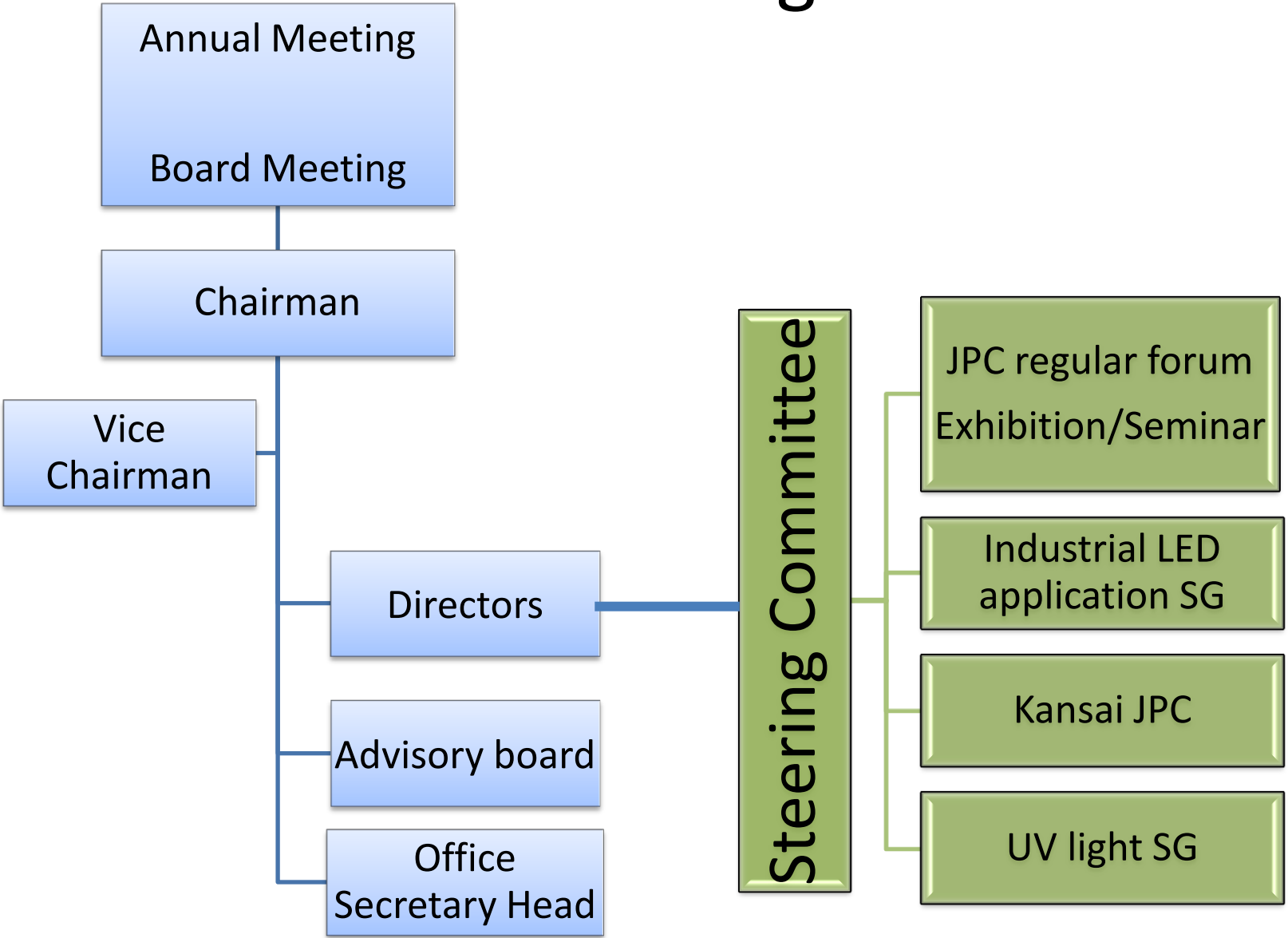


祝

本会理事 天野浩先生 ノーベル物理学賞受賞おめでとうございます！

Congratulation of Nobel Prize for Prof. Hiroshi Amano (director and chairman of industrial LED application study group)

# JPC Organization



# Categories of Organization and Activity

- Annual Meeting and board meetings
- Sub group activity
  - Regular forum
  - Industrial LED application study group
  - JPC Kansai branch
  - Ultra Violet Light study group
  - Photonic polymer study group
- Various exhibition (seminar) contribution
- Monthly steering committee meeting

# Annual Meeting at Chiyoda Platform Square (Tokyo) on June 5, 2014

- Chairman and directors, reappointed
- Members as of March 2014
  - 33 Corporate
  - 32 Personnel
  - 1 Supporting organization
  - 29 Web member
- Special Talks
  - Recent Japanese photonic industry trend and research results in international conferences – focusing on fiber optic telecommunication by Prof. Naoto Kobayashi (Waseda Univ.)
  - Organic EL and optical devices trends by visualization method for research management by Naoki Ikezawa (Nomura Research Institute)

# Sub group activity

- Regular forum
  - Bimonthly meetings
- Industrial LED application study group
  - Quarterly meetings
- JPC Kansai branch
  - Newly established on April
  - Activity mainly in Kansai (Osaka, West part of Japan) area
  - Quarterly meetings
- Ultra Violet Light study group
  - Newly established on November
- Photonic polymer study group
  - Under study

# Sub group activity

- Regular forum
  - Bimonthly meetings and making efforts on collaboration with other photonics related organization
  - New year information exchange conference on January 29
    - Special memorial key note speak of SPIE and advancement of photonics industry by Prof. Toyohiko Yatagai (Utsunomiya Univ. and next Chairman of SPIE)
    - Invited talk of domestic production scale trend and global market trend of photonic industry by Yasuhisa Odani (Chief Executive director of OITDA)
  - March forum on March 18
    - Invited talk of perspective of optical thin films focused on infra red application by Prof. Hiroshi Murotani (Tokai Univ.)
    - Invited talk of Bio measurement and medical care by light by Prof. Hideo Eda ( Univ.)
    - Member report of Introducing notable topics on organic photonics by Mr. Ko Aosaki (Asahi Glass)
  - July forum co-held by **Industrial LED application study group** and 125<sup>th</sup> committee (photo-electronic mutual transformation) of Japan Society for the Promotional Science on July 11, given details at page XX
  - September forum on Sept. 25
    - Invited talk of Mission and accomplishment of The graduate school for the creation of new photonics industries (GPI) by President Yoshiaki Kato (GPI)
    - Invited talk of Photon ring : Business transformation system by photonic technologies with utilization of university by Prof. Kenichi Usami (GPI)
    - 1 Entrepreneur introduction of photonic industry creation via entrepreneur realization by Takahiro Ikeda (Pal Photonics)
    - 2 Entrepreneur introduction of Convergence of photonic technology and existing technology by Nobuhide Takeda (D-Laser)
    - 3 Entrepreneur introduction of Business developing of IR tissue oxygen monitoring handy type apparatus by Toshihiko Mizuno (Dynasense)
    - 4 Entrepreneur introduction of Challenge for medical care by optical technology by Ryo Shimokita (Genial Light)
  - November forum on Nov. 18 co-held by **Ultra Violet Light study group** (UVL SG, newly established), given details at page

# Sub group activity

- Industrial LED application study group
  - Quarterly meetings
  - March meeting co-held by Micro optics study group (Japan Applied Physics Society) on March 5
    - Program is given below site (in Japanese); <http://www.comemoc.com/mo131prg.pdf>
  - July forum co-held by JPC regular forum and 125th committee (photo-electronic mutual transformation) of Japan Society for the Promotional Science on July 11
    - R&D trend of latest GaN material and devices by Prof. Hiroshi Amano (Nagoya Univ.)
    - Red LED and its MOVPE growth of InGaN light emission layer by Prof. Kazuhiro Okawa (Tokyo Science Univ.)
    - Blue LED with moss eye light excluding structure by Prof. Satoshi Kamiyama (Meijo Univ.)
    - Direct verification of ABC model in nitride semiconductor by time divisional PL measurement by Atsushi Yamaguchi et. al (Kanazawa Institute of Technology)
    - Future perspective and advancement of AlGaN system UVC LED by Dr. Hideki Hirayama (Institute of Physical and Chemical Research, IPCR)
  - September meeting on Sept. 09
    - Realization and future perspective of high efficiency deep UV LED by Dr. Hideki Hirayama (ISCR)
    - UV LED application and market by Yuko Morito (U-VIX)
    - Application of deep UV LED by Hideki Asano (NIKKISO)
    - About prior questionnaire survey result of UV LED by Prof. Hiroshi Amano (Nagoya Univ., **Chairman of this SG**)
  - Special meeting on Nov. 18 co-held by Ultra Violet Light study group (UVL SG, newly established), given details at page xxx

# Sub group activity

- JPC Kansai branch
- Memorial conference of JPC Kansai establishment on March 20
  - Greetings by Prof. Sadao Nakai (Osaka Univ., Chairman of JPC Kansai)
  - Key note speech of balancing eco contribution and economical prosperity – progressing LED and laser technologies by Prof. Hiroshi Amano (Nagoya Univ.)
  - Special talk of Super energy saving technology – most advanced LCD by Akihiko Imai (Sharp)
  - Special talk of brought **Shangri-La** by rare earth metals – rare earth metal doped semiconductor and LED application by Hirofumi Fujiwara (Osaka Univ.)
- Kick off meeting of Laser technology development and New application on June 25
  - New industry bringing to Kansai by photonic era and power photonics by Prof. Sadao Nakai (Osaka Univ.)
  - Continuing laser technology advancement, environmental response, and new application by Atsushi Sugitate (Mitsubishi Electric)
  - Get together information exchange party
- September regular meeting and touring (photonic technology to raise plant factory development) on Sept. 29
  - Greeting talk by Prof. Sadao Nakai (Chairman of JPC Kansai)
    - Invited guest speech by Takashi Nakamura (Kinki economy and industrial div, Government)
    - Key note speech of Inevitable photonic technology for plant factory development – Control of biological clock in plant body by light by Associate Prof. Hirokazu Fukuda (Osaka Prefecture Univ.)
    - Feasibility study of cultivating leaves and roots by agri-bio illumination by Hirokazu Akima ( )
    - Working on lighting business by building owner by Shuhei Toyoda (Toyoda Co. Ltd)
    - Plant factory tour (new building at Osaka Prefecture Univ.)
- December regular meeting on Dec. 16
  - Key note speech of Photonic technology application to medical care ; focusing on optical coherence tomography (OCT) by Prof. Masamitsu Haruna (Osaka Univ.)
  - CMOS technology to explore new brain science and brain function diagnosis by Prof. Jun Ota (Nara Institute of Science and Technology)
  - Photonics technology application to health and medical care devices by Toshikazu Shiga (Omron HealthCare co.)
  - Latest information exchange; UV lamp application technology and product by SunEnergy and latest information related to laser and optics by steering committee



# Sub group activity

- Ultra Violet Light study group (UVL SG)
  - Newly established on November
- Kick off memorial seminar and meeting on Nov. 18 co-held by JPC forum and Industrial LED application study group
  - Reality and technology trend of UV LED by Hideki Hirayama (chairman of UVL SG, IPSR)
  - Reality and technology trend of UV lasers by Tomoyuki Wada (Mega Opto, IPSR)
  - Developmental trend and application of UVL LED by Norihiko Muramoto (Nitride Semiconductors)
  - Greatly potential UVL business by Yuko Morito (U-VIX)

# Various exhibition (seminar) contribution

- OPIE (Optics & Photonics International Exhibition) 2014 during April 23 – 25 at Pacifico Yokohama
  - <http://www.opie.jp/en/index.php>
- 7<sup>th</sup> UVO (Utsunomiya University Optics Center) salon on June 18 at Utsunomiya Univ.
- InterOpto 2014 during October 15 - 17 at Pacifico Yokohama
  - <http://www.optojapan.jp/interopto/en/>
- Science Photonics Fair 2014 (IR Fair and other exhibition and seminar) during November 18 – 20 at Science Museum, Tokyo
  - <http://www.optronics.co.jp/fair/en/index.php>

## LE LASER EXPO

Organizer: The Laser Society of Japan

## IR + UV EXPO

Organizer: Japan Photonics Council

## LENS EXPO

Organizer: Japan Photonics Council

## POSITIONING EXPO

Organizer: **OPTRONICS** Magazine  
Cooperation: Technical Committee of Ultra Precision Positioning  
(The Society for Precision Engineering)

## Medical & Imaging EXPO

Organizer: Medical Imaging Consortium  
MEDICAL PHOTONICS Magazine / **OPTRONICS** Magazine

## S&A Space & Astronomical Optics EXPO

Organizer: **OPTRONICS**  
Cooperating Organization: JAXA (Japan Aerospace Exploration Agency)  
NAOJ (National Astronomical Observatory of Japan)

## 4th IR Fair 2014

Organizer: The Optronics Co., Ltd.  
Cooperation: The Japan Society of Infrared Science and Technology

## 2nd Si Photonics & Micro Optics Fair 2014

Organizer: The Optronics Co., Ltd. ⓂName was changed from "Micro Optics Fair"  
Cooperation: Microoptics Group

## 1st UV & X-ray Fair 2014 NEW

Organizer: The Optronics Co., Ltd.  
Cooperation: UV Group

## 1st Optical Thin Film Fair 2014 NEW

Organizer: The Optronics Co., Ltd.  
Cooperation: The Optical Thin-Film Science and Engineering group

## 1st Spectroscopy Fair 2014 NEW

Organizer: The Optronics Co., Ltd.  
Cooperation: The Spectroscopical Society of Japan

## Special zone Terahertz

Organizer: The Optronics Co., Ltd.

## Special zone Medical-Bio

Organizer: The Optronics Co., Ltd.

# Monthly steering committee meeting

- Steering committee members meet every month for discussing and planning regular forum and sub group activities.
  - M. Utsuno, (K. Kobayashi resigned on June), M. Kobiyama, K. Aosaki, T. Ikuma, K. Itoh (newly jointed on July), N. Ueno, K. Egami
- Office secretary announces the confirmed meeting schedule in web and sends e-mail to all members and other non-members in the archive list.
- Sub group meeting is separately organized by sub group members.