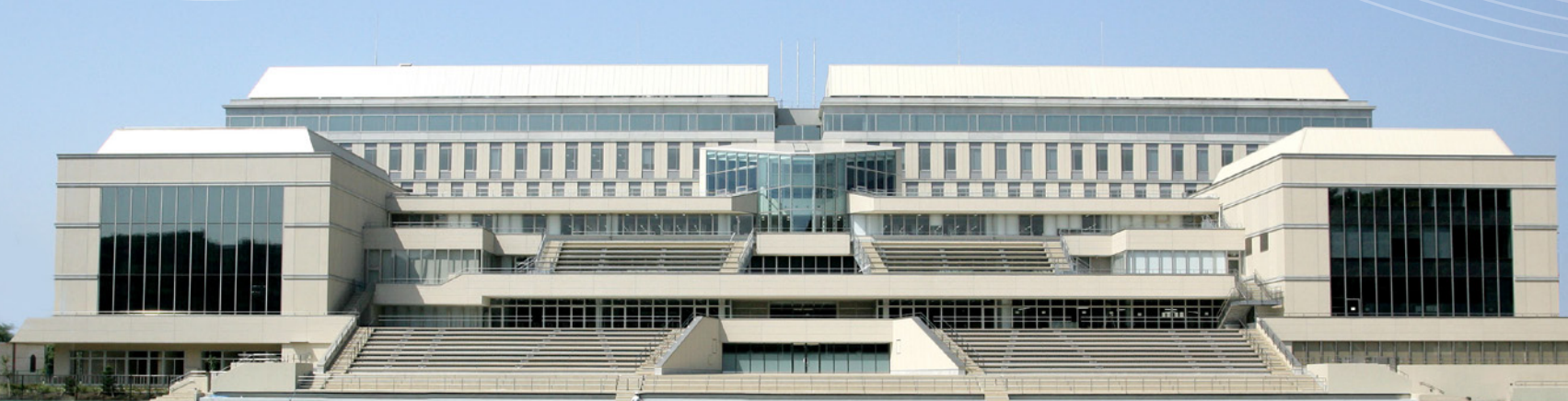




## The 19th International Conference on Plastic Optical Fibers



<http://pof2010.org/>

Contact : [info@pof2010.org](mailto:info@pof2010.org)

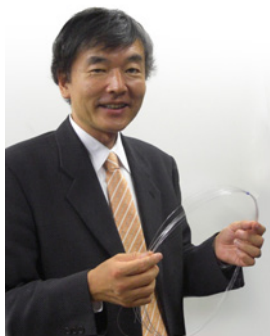
### Venue

Keio University in Yokohama, Japan

### Schedule

Conference	October 19-21, 2010
Special Session	October 19, 2010
Banquet	October 20, 2010
Kyoto Technical Tour and Excursion	October 22-23, 2010





### Yasuhiro Koike

General Chair of International Cooperative of Plastic Optical Fiber (ICPOF)

The first International Conference on Plastic Optical Fibers was held in Paris in 1992. Since then, the conference has been held every year all over the world including European and Asian countries, United States and Australia.

At these conferences, a lot of POF-related important R&Ds and innovations have been reported and many of them have come to the real world markets; such as digital audio interfaces, factory automations, automotive applications, illuminations, sensors, office & home networks and so on.

The 19th International Conference on Plastic Optical Fibers (POF 2010) continues the tradition and further expands into new research and application fields. We welcome all of you to the conference in Yokohama, Japan, filled with an attractive atmosphere designed to foster communication among researchers, scientists and engineers.

POF 2010 will be held at Keio University Hiyoshi Campus, Yokohama, Japan, on October 19-21, 2010. The conference will feature addressing the latest developments and advances in a large range of POF technologies and their integration for a variety of applications.

 POF 2010  
 Kyoto Technical Tour and Excursion

October

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

The scope of the conference is to discuss the latest R&D results, industrial activities and applications of plastic optical fibers.

There will be Special Session "Face-to-Face Communication through Fiber-to-the-Display" in the afternoon of the first day (October 19). The Special Session features lectures by leading-edge speakers and panel discussions where some of the panelists join through Gigabit POF networks.

After the conference, we would like you to join our "Technical Tour & Excursion" to beautiful Kyoto, visiting Kyoto R&D Laboratories of Sekisui Chemical and some major sightseeing spots.

### Sponsored by



### Cooperated by



### Collaborated with



## Plenary Talk

**Maki Sato** VP, Deputy President, RF Transmission&Video System Development,  
Core Device Development Group, Sony Corporation  
*"Next Generation Display & Transmission Technology"*

## Special Remarks

**Duncan T. Moore** Vice Provost of Entrepreneurship,  
Professor of Optical Engineering,  
University of Rochester

## Invited Talks

### SESSION : Datacom & Networks-1

**Jung Wook Lee** Korea Information & Communication Supervision Association  
*"Ubiquitous City Driving Plan in Korea"*

**A.M.J.(Ton) Koonen** COBRA Institute / Eindhoven University of Technology  
*"Converged In-building Networks Using POF-Economics and Advanced Techniques"*

### SESSION : Datacom & Networks-3

**Sven Loquai** University of Applied Sciences Nuremberg  
*"Comparison of DMT,PAM and NRZ with Optimized Receiver Bandwidths"*

**Silvio Abrate** Istituto Superiore Mario Boella  
*"Fully-Digital Parallel Adaptive Decision Feedback Equalizer for Gigabit Ethernet SI-POF Links"*

**Carlos Pardo** KD-POF  
*"KDPOF, the Path to the Gigabit POF"*

### SESSION : Datacom & Networks-4

**Whitney R. White** Chromis Fiberoptics  
*"New Products and Technologies for Commercial Deployment of High-speed Data Communications over POF"*

**Seun Han Park** Yonsei University

### SESSION : Materials & Fiber Tech-1

**Yasuo Yamabe** Sekisui Chemical  
*"Developments of the Novel GI POF and Giga-link System -For the Realization of the Next-Generation Optical Link -"*

**Masayoshi Tabata** Muroran Institute of Technology  
*"Highly Thermal Resistant POF Prepared By Using an Aromatic Polyester"*

### SESSION : Materials & Fiber Tech-2

**Yoshinori Hirai** Asahi Glass  
*"The World's Fastest GI-POF and Market Trend"*

### SESSION : Passive & Active Devices-1

**Hideto Furuyama** Toshiba  
*"Optical Interconnect Technologies for Future Consumer Electronics"*

### SESSION : Passive & Active Devices-2

**John D. Lambkin** Firecomms  
*"Resonant Cavity Light Emitting Diodes: An Enabling Technology for Plastic Fibre Communication Applications"*

### SESSION : Sensors-1

**Patricia Scully** Manchester University  
*"Polymer Optical Fibre Sensing and Technology: Applications"*

### SESSION : Sensors-2

**Katerina Krebber** BAM Federal Institute for Materials Research and Testing  
*"Distributed POF Sensors - Recent Progress and New Challenges"*

### SESSION : Standards and Characterization

**Joseba Zubia** University of the Basque Country  
*"New Advances on POF Modelling"*

## 19 Oct. (Tue)

9:30	Opening Remarks
9:35	Special Remarks
9:50	Plenary Talk
10:20	Datacom & Networks -1
11:20	Coffee Break
11:25	Datacom & Networks -2
11:50	Materials & Fiber Tech. -1
13:00	Lunch
15:00	Special Session
17:45	

## 20 Oct. (Wed)

9:00	Passive & Active Devices -1
10:40	Coffee Break
11:25	Passive & Active Devices -1 (Continued)
12:15	Passive & Active Devices -2
13:40	Lunch
15:40	Datacom & Networks -3
16:45	Coffee Break
17:30	Datacom & Networks -3 (Continued)
18:00	Poster Session
18:00	Banquet

## 21 Oct. (Thu)

9:00	Materials & Fiber Tech. -2
9:35	Datacom & Networks -4
11:05	Coffee Break
12:40	Sensors -1
13:50	Lunch
15:30	Sensors -2
17:05	Coffee Break
17:30	Standards and Characterization
17:30	Post Deadline Paper
17:30	Closing Remarks

## International Organizing Committee

Yasuhiro Koike (Chair)	Keio University
Lee L. Blyler Jr.	Chromis Fiberoptics
Werner Daum	Federal Institute for Materials Research and Testing (BAM)
Roberto Gaudino	Politecnico di Torino
Jacques Goudeau	Nexans Research Center
Yoichi Ikemoto	Sekisui Chemical
Demetri Kalymnios	London Metropolitan University
A.M.J. (Ton) Koonen	Eindhoven University of Technology
Katerina Krebber	Federal Institute for Materials Research and Testing (BAM)
John D. Lambkin	Firecomms
Maryanne C.J. Large	University of Sydney
Jung Wook Lee	Korea Information & Communication Supervision Association
Ann Mescher	University of Washington
Kazuki Nakamura	Mitsubishi Rayon
Hans Poisel	POF AC, University of Applied Sciences Nuernberg
Paul Polishuk	IGI Group
Patricia Scully	Manchester University
Tetsuya Toma	Keio University
Yuji Watanabe	Asahi Glass
Marcelo Martins Werneck	Universidade Federal do Rio de Janeiro
Whitney White	Chromis Fiberoptics
Olaf Ziemann	POF AC, University of Applied Sciences Nuernberg
Joseba Zubia	University of the Basque Country

## Local Steering Committee

Yasuhiro KOIKE (Chair)	Keio University
Tetsuya TOMA (Vice Chair)	Keio University
Shin-ichi FURUKAWA	Yazaki
Shinji KIRIHATA	Panasonic Electric Works
Kazuki NAKAMURA	Mitsubishi Rayon
Kozaburo NAKAMURA	E-LambdaNet Corporation
Seiji SASHO	Asahi Kasei E-Materials
Hiroyuki SHIRAI	Hamamatsu Photonics
Shin-ichi TAKAGI	
Satoshi TAKAHASHI	Japan Science and Technology Agency
Chikafumi TANAKA	Asahi Glass
Teruyuki TANIGUCHI	Sekisui Chemical
Hayato YUUKI	AutoNetworks Technologies

### KPRI International Symposium: “POF and its Solution”

Keio Photonics Research Institute (KPRI) is a laboratory affiliated with Keio University's Faculty and Graduate School of Science and Technology.

KPRI was founded in April, 2010 to carry out the research with the subject of “Creation of Face-to-Face Communication Industry by Ultra High-Speed Plastic Optical Fiber and Photonics Polymers for High-Resolution and Large-Size Display,” which is selected by Japan's Cabinet Office as one of 30 “Funding Program for World-Leading Innovative R&D on Science and Technology (FIRST Program).”

Since FIRST Program is aimed to advance the kind of leading-edge research and development that will strengthen Japan's international competitiveness while contributing to society and people's welfare through the application of its results, Professor Koike, Research Director of KPRI, is fully committed and devoted to KPRI program and activities to bring out the overwhelming results to the society with his unique and world-class photonics-polymer research and development.

#### Opening Remarks

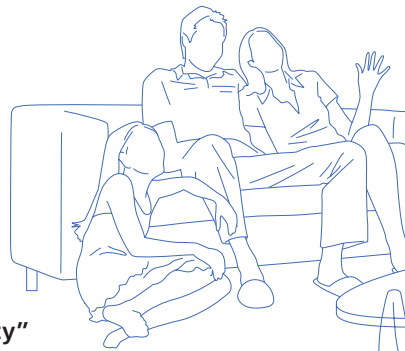
Professor Atsushi Seike, President, Keio University

#### Congratulatory Address

Cabinet Office, Government of Japan

#### Keynote Lecture “Vision of KPRI's R&D Activity”

Yasuhiro Koike, Professor, Keio University,  
Research Director, Keio Photonics Research Institute



### Future Vision of “Face-to-Face Communication in the POF world”

#### Presentation “All for Patients: Group Empowerment by Personal Initiative”

Professor Makoto Suematsu, Dean of School of Medicine, Keio University

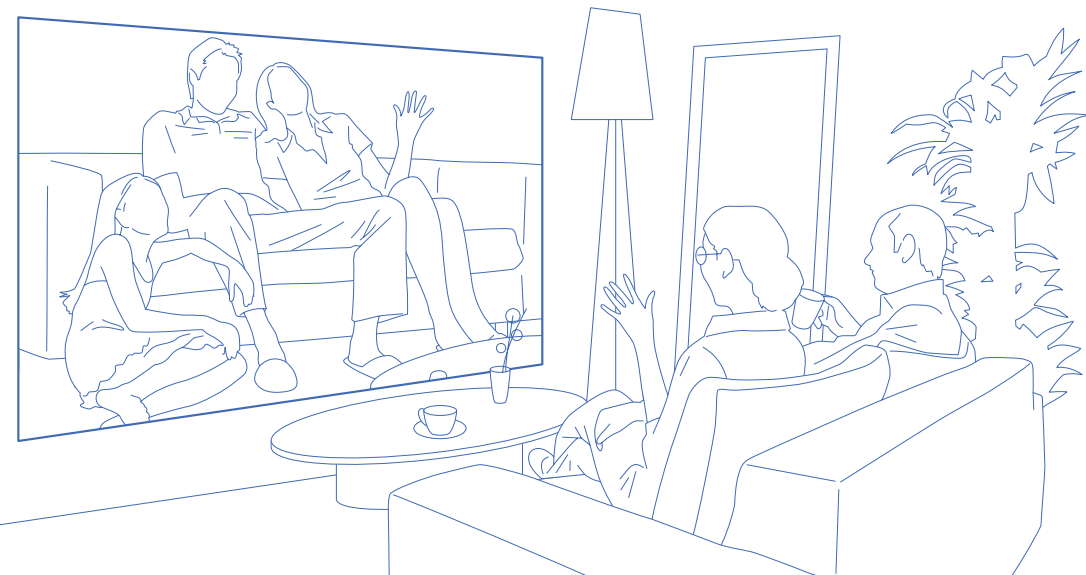
#### Special Talk “Our World: An Innovative Perspective”

Mamoru Mohri, Astronaut, Chief Executive Director, National Museum of Emerging Science and Innovation

#### Remote talk connected between Hiyoshi and National Museum of Emerging Science and Innovation (Mirai Kagakukan) with uncompressed transmission

#### Musical Performance and Demonstration

“Face-to-Face Communication Society” with POF and Photonics Polymer Technologies



We would like to welcome you to Kyoto Technical Tour and Excursion on October 22 and 23 after the conference. We will have a technical tour in Kyoto R&D Laboratory of Sekisui Chemical on the first day, and take Kyoto Excursion on the second day. Attractive traditional events and famous tourist entertainments are planned. Please enjoy the beautiful Ancient Kyoto!

## Technical Tour on October 22

### Schedule

08:47	Tokyo Station Shinkansen(a bullet train) "Nozomi #213"
09:06	Shin-Yokohama Station
11:08	Kyoto Station
11:30	Lunch
13:00	Workshop in Kyoto R&D Laboratory of Sekisui Chemical
15:00	Presentation by Sekisui Chemical & Laboratory Tour
18:00	Welcome Party
20:00	Closing Announcement

(Stay at Sekisui Chemical Guest House/ New Miyako Hotel)

## Excursion on October 23, 9:00AM to 4:00PM

- » Visits to selected major traditional cultural spots such as Kinkakuji (The Temple of the Golden Pavilion) and the stone garden of Ryoanji
- » Traditional Japanese (tofu cuisine) lunch in Arashiyama
- » Hozugawa-kudari (Hozugawa River Boat Ride)

\* Contents are subject to change depending on weather conditions.

For detailed information, please see the POF2010 website.

## For overseas participants

### Free of costs for the followings

- » Technical Tour to Sekisui Chemical Technical Lab. & Welcome Party
- » A round-trip fare to Kyoto
- » Accommodation (1 or 2 nights as you wish)

### <Excursion on October 23>

Optional sightseeing tour: 18,000yen per person

### Accommodation

Free of cost: A single room of Sekisui Chemical Guest House for the night of October 22 and 23. We highly recommend that you should stay for 2 days if you wish to enjoy the real attractions at Kyoto!

\* If you prefer a twin room, we can offer New Miyako Hotel located just near from Kyoto Station at 20,000 yen per night.  
For more information, please contact us at <info@pof2010.org>.

## For domestic participants

### 65,000yen / person including the followings

- » Technical Tour to Sekisui Chemical Technical Lab. & Welcome Party
- » A round-trip fare to Kyoto
- » Accommodation
- » Excursion on October 23

\* If you wish to participate in only technical tour of Kyoto R&D Laboratory of Sekisui Chemical and reception on October 22, it costs you 10,000yen.

### TIP For PLANNING YOUR TRIP

Please try to book your return flight from Kansai International Airport back to your country since it is the nearest international airport from Kyoto.

If you choose to fly from Narita International Airport on the 24th (Sun), we recommend that you will return to Narita or Tokyo area within 23rd (Sat) as it takes approx. 2.5hours by trains from Kyoto to Tokyo area.





## Conference Registration Fees

### Registration (General rate)

Paid before August 31 | Paid after September 1

**40,000 JPY** | **50,000 JPY**

Note: This includes the fee of the Banquet

### Registration (for Student)

**8,000 JPY**

Note: The fee of the Banquet is **not** included

### Additional guests for the Banquet

**10,000 JPY** per person

\* All participants are requested to register from the POF2010 website.

\* In case of cancellation, your registration fee will be refunded after deducting the cancellation fees as follows;

### Cancellation Fee

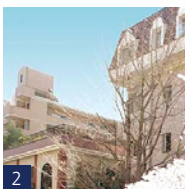
On or Before August 31 : 20 % of the registration fee

On or After September 1 : 100 % of the registration fee / No refund

## Accommodation

Hotels below can be booked via your "My Page" at the POF 2010 website.

<http://pof2010.org/>



1.  
Richmond Hotel Premier Musashikosugi  
<http://www.richmondhotel.jp/en/musashikosugi/>

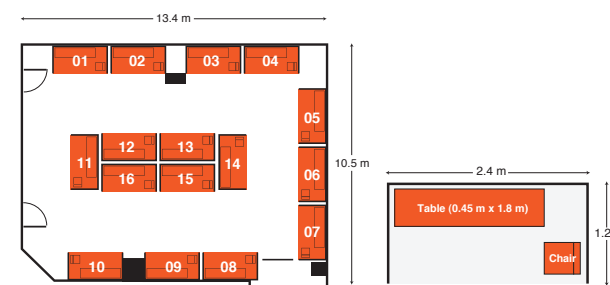
2.  
Hotel Seiyoken  
<http://www.seiyoken.com/>

3.  
Yokohama Bay Sheraton Hotel & Towers  
<http://www.yokohamabay-sheraton.co.jp/>

4.  
Navios Yokohama  
<http://www.navios-yokohama.com/>

## Exhibition

Exhibition will be open from October 19 at noon to October 21 at 4 p.m. Exhibition hall is located at the same floor as the conference hall. Maximum 16 blocks are available. Each block has 1.2 m x 2.4 m space separated by movable partition walls, and equipped with a name plate, a Table (0.45 m x 1.8 m), a chair and a power source (100 V<sub>AC</sub>, max. 200 W). Layout plan of the exhibition is as shown in the figure.



Blocks will be allocated on a first-come, first-served basis.

## Order

Blocks can be reserved from the POF2010 website.

Exhibition space / Block	1.2 m x 2.4 m
Facilities	1 table (1,800 x 450 mm) / Block, 1 chair / Block, Name panel, Power source (100 V <sub>AC</sub> , max. 200 W)
Price / Block *	JPY 200,000 *Complimentary registration and banquet fee for one delegate per block is included.

## Refund / Cancellation Policy

All requests for cancellation must be sent to [info@pof2010.org](mailto:info@pof2010.org) prior to October 1, 2010.

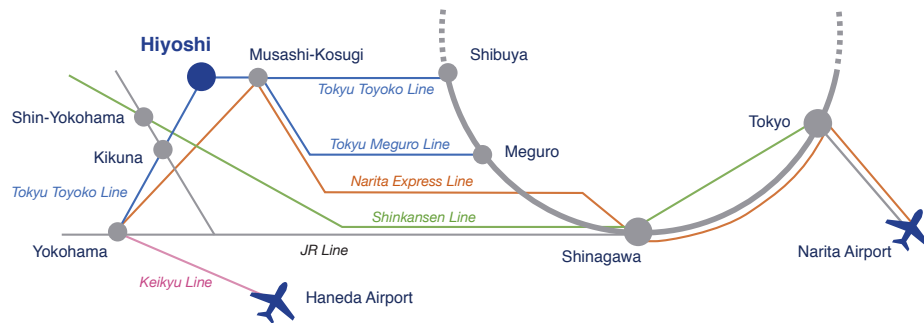
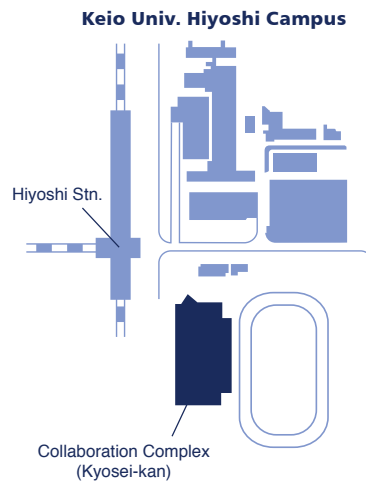
Cancellation or reduction of space before September 1	No cancellation fee
Cancellation or reduction of space between September 1 and September 30	50% refund
Refunds will not be granted after September 30	



## Collaboration Complex (Kyosei-kan), Keio University Hiyoshi Campus

4-1-1, Hiyoshi, Kohoku-ku, Yokohama,  
Kanagawa 223-8526 Japan

1 min. walk from Hiyoshi Station  
(Tokyu Toyoko Line,  
Tokyu Meguro Line and  
Yokohama Municipal Subway Green Line)  
Ltd. Express trains of Tokyu Toyoko Line  
do not stop at Hiyoshi Station.



1. Collaboration Complex 2. Conference hall 3. Hiyoshi Campus