

An abstract graphic featuring a large, solid blue shape on the right side of the page. A thick, multi-colored line, transitioning from red to orange, yellow, green, and blue, loops around the bottom and left side of the blue shape. The text is positioned to the left of the blue shape.

ICAPP 2011

1st International Conference on Advanced Photonic Polymers

Greeting

Japan was greatly damaged by the Great East Japan earthquake on March 11, 2011. This conference, through the experience from this disaster, was established under the unifying desire of how we can contribute to Japan's recovery with photonics polymers. Japan has led the world by laying out optical communication network. However, family and friends were not able to communicate with each other for a long period of time during the disaster, which fully made us realize the fear of natural disaster, the importance of the early recovery of information infrastructure, and the necessity of establishing an information-sharing network/system between each individual.

In this conference, we would like to propose photonic innovation in order to materialize "a society where individuals interact with each other", what we yearn for through our experience of this disaster. We will seek for specific measures at this conference that will lead to Japan's recovery, by introducing cutting-edge technologies working together with 30 researchers of photonic field representing the world who supports this purport. Also, at the special session held in the afternoon of the second day, we invite key players from all fields of industry-government-academia and discuss the cross-industry collaboration in order to establish an infrastructure focusing on photonics polymers. We will also systemize its challenges and each element technology, and discuss the approach on research development hereafter towards industry's creation.

Chair, Yasuhiro Koike

1st International Conference on Advanced Photonic Polymers

~Reconstruction of Japan from 3.11 Tragedy by "Photonics Innovation"~

<http://icapp2011.simon-dozac.net/>

Cosponsored by FIRST Program of Cabinet Office of Japan/
Japan Society for the Promotion of Science (JSPS) and
S-Innovation Program of Japan Science and Technology Agency (JST)

Organized by : ICAPP2011 Organizing Committee
Supported by : The Society of Polymer Science
The Chemistry Society of Japan
The Japan Society of Applied Physics
The Institute of Electronics, Information and Communication Engineers (IEICE)
Optical Society of Japan
Optoelectronics Industry and Technology Development Association (OITDA)

Date : December 1 (Thu.) 9:00-19:00
December 2 (Fri.) 9:00-17:20

Venue : 3rd floor, Conference Center, Pacifico Yokohama
<http://www.pacifico.co.jp/english/index.html>

Admission : Free of charge

Registration : ICAPP2011 Website <http://icapp2011.simon-dozac.net/>

Contact : ICAPP2011 Organizing Committee/Secretariat
E-mail: icapp2011@kpri.keio.ac.jp



ICAPP 2011 Organizing Committee

Chair: Yasuhiro Koike, FIRST Core Researcher, Professor, Keio University
Co-Chair: Seizo Miyata, Program Officer of S-Innovation, Professor, Tokyo Institute of Technology
Secretary General: Toshikuni Kaino, Professor Emeritus, Tohoku University, Professor, University of Electro-Communications

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Masayuki Tsuzuki (Keio University)
Nobuyuki Kawai (Keio University)

Program:

Dec. 1(Thu.) 9:00~19:00, Dec. 2 (Fri.) 9:00~17:20

Greeting Message:



Michiharu Nakamura
(President, Japan Science and Technology Agency)

Special Remarks:



Duncan T. Moore
(Vice Provost of Entrepreneurship, Kingslake Professor, Optical Engineering, Professor, Business Administration, University of Rochester)

Plenary Talks: "Benefits of Telecommunication Technology in Applied Optical Spectroscopy"



Sune Svanberg
(Professor, Lund Laser Center, Lund University, Sweden and Center for Optics and Electromagnetic Research, South China Normal University, Guangzhou, China, Former Chairman of Nobel Prize Committee in Physics)

"Status of Photonics Polymer toward Face-to-Face Communication"



Yasuhiro Koike
(FIRST Program Core Researcher, Professor, Keio University)

Special Guest Lectures by FIRST Program Core Researchers:

"Development of Next Generation Organic Photovoltaics"



Hiroshi Segawa
(Professor, Research Center for Advanced Science and Technology, The University of Tokyo)

"Novel Concept Organic Light Emitting Devices"



Chihaya Adachi
(Professor, Department of Applied Chemistry, Faculty of Engineering, Kyushu University)

Technical Sessions:

- (1) Active Polymers
- (2) Polymers for Communication 1
- (3) Nano-fibers & Nano-related Polymers
- (4) Polymers for Communication 2
- (5) Advanced Photonic Materials
- (6) Photonic Functions & Devices

Poster Sessions:

Invited Speakers

Chen, Ray T.	The University of Texas, USA
Fukuda, Takashi	National Institute of Advanced Industrial Science and Technology, Japan
Ghosh, Saikat	S. N. Bose National Centre for Basic Sciences, India
Hakuta, Kohzo	University of Electro-Communications, Japan
Hidayat, Rahmat	Institut Teknologi Bandung, Indonesia
Kajzar, Francois	University POLITEHNICA of Bucharest, Romania
Khoo, I. C.	The Pennsylvania State University, USA
Kim, Eunkyong	Yonsei University, South Korea
Kim, Tae-Dong	Hannam University, South Korea
Kobayashi, Takayoshi	University of Electro-Communications, Japan
Koonen, A.M.J. (Ton)	Eindhoven University of Technology, Netherlands
Lee, Charles YC	Air Force Office of Scientific Research, USA
Lee, El-Hang	Inha University, South Korea
Lee, Kwang-Sup	Hannam University, South Korea
Nunzi, Jean-Michel	Queen's University, Canada
Okamoto, Yoshiyuki	Polytechnic Institute of New York University, USA
Park, Soo Young	Seoul National University, South Korea
Ralph, Stephen E.	Georgia Institute of Technology, USA
RĂU, Ileana	University POLITEHNICA of Bucharest, Romania
Sugihara, Okihiro	Tohoku University, Japan
Tagaya, Akihiro	Keio University, Japan
Tang, Ben Zhong	The Hong Kong University of Science & Technology, P.R.China
Toma, Tetsuya	Keio University, Japan
Tong, Limin	Zhejiang University, P. R. China
Tsutsumi, Naoto	Kyoto Institute of Technology, Japan
Umegaki, Shinsuke	Utsunomiya University, Japan
Watanabe, Junji	Tokyo Institute of Technology, Japan
Xiao, Yun-Feng	Peking University, P. R. China
Yong, Ken-Tye	Nanyang Technological University, Singapore
Ziemann, Olaf	POF AC, University of Applied Sciences Nuremberg, Germany
Zubia, Joseba	University of the Basque Country, Spain

Special Session (with Japanese-English simultaneous interpretation)

Dec. 2(Fri.), 14:00-17:20

1. Introduction:



"Towards Reconstruction of Japan based on
Information Industry Supported by Photonics Innovation"

Seizo Miyata (Professor, Tokyo Institute of Technology, Program Officer, JST S-Innovation Program)

2. Greeting:



Masuo Aizawa (Executive Member, Council for Science and Technology Policy Cabinet Office, JAPAN)

3. Special Talk: Expectation from Industry



"Creation of Novel Industry by Innovation"

Kakutaro Kitashiro (Senior Advisor, Japan IBM)

4. Special Talk: Photonics Innovation from International Society



"Laser Spectroscopy in the Detection and Treatment of Human Malignancies"

Katarina Svanberg (President of SPIE, Professor, Department of Oncology, Lund University Hospital,
Lund University and Lund University Medical Laser Centre)

5. Panel Discussion I: Discussion and Proposals by Photonics Polymer Academia



Moderator: Toshikuni Kaino (Secretary General, Professor Emeritus, Tohoku University,
Professor, University of Electro-Communications)

Panelists: Session Chairs

Panel Discussion II: System Integration and Realization towards High-Speed Information Society and Creation of New Industry

Moderator: Seizo Miyata (Professor, Tokyo Institute of Technology)

Panelists:



Motoyuki Ii (SVP Plant Planning Department, Network Business Headquarters,
Nippon Telegraph and Telephone East Corporation)



Hiroto Izumi (Secretary General Regional Revitalization Bureau Cabinet Secretariat,
Visiting Professor Keio University, Visiting Professor National Graduate
Institute for Policy Studies)



Francois Kajzar (University POLITEHNICA of Bucharest)



Osamu Sawada (Chairman, Net One Systems)

Yasuhiro Koike (Professor, Keio University)

Closing

ICAPP2011 Program at 3rd floor, Conference Center, Pacifico Yokohama

Dec.1 (Thu.)

9:00	Opening Room:301-302 Greeting: Michiharu Nakamura (JST) Special Remarks: Duncan T. Moore (Univ. Rochester)	
9:30	Plenary Talks Room:301-302 Sune Svanberg (Lund Univ., Former Chairman of Nobel Prize Committee in Physics) Yasuhiro Koike (FIRST Core Researcher, Professor, Keio Univ.)	
10:30	Coffee Break	
10:45	Room:303 (1) Active Polymers	Room:304 (2) Polymers for Communication 1
12:45	What is the solution ?	
14:00	lunch	
14:00	Room:303 (3) Nano-fibers & Nano-related Polymers	Room:304 (4) Polymers for Communication 2
16:20	What is the solution ?	What is the solution ?
16:20	Special Guest Lectures by Room:301-302 FIRST Program Core Researchers Hiroshi Segawa (Tokyo Univ.) Chihaya Adachi (Kyushu Univ.)	
17:30	Poster Session Floor:Foyer P1: Active Polymers P2: Polymers for Communication P3: Nano-fibers & Nano-related Polymers P4: Advanced Photonic Materials P5: Photonic Functions & Devices	
19:00		

Dec.2 (Fri.)

9:00	Room:303 (5) Advanced Photonic Materials	Room:304 (6) Photonic Functions & Devices
10:55	Coffee Break	
10:55	Room:303 (5) Advanced Photonic Materials	Room:304 (6) Photonic Functions & Devices
12:30	What is the solution ?	What is the solution ?
14:00	lunch	
14:00	Special Session Room:301-302 1.Introduction Seizo Miyata (Co-chair) 2.Greeting Masuo Aizawa (Executive Member, Council for Science and Technology Policy) 3.Special Talks Kakutaro Kitashiro (Senior Advisor, IBM Japan) Katarina Svanberg (President of SPIE, Professor, Lund Univ. and Lund Univ. Hospital) 4.Panel Discussion I: "Discussion and Proposals by Photonics Polymer Academia" Moderator: Toshikuni Kaino (Secretary General of ICAPP) Panelists: Session Chairs 5.Panel Discussion II: "System Integration and Realization towards High-Speed Information Society and Creation of New Industry" Moderator: Seizo Miyata (Co-chair) Panelists: Motoyuki Ii (NTT East Japan) Hiroto Izumi (Cabinet Secretariat) Francois Kajzar (Univ. POLITEHNICA of Bucharest) Osamu Sawada (Net One Systems) Yasuhiro Koike (Chair)	
17:20	Closing Remarks Room:301-302	

ICAPP 2011

International Conference on Advanced Photonic Polymers

Contact : ICAPP2011 Organizing Committee
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E-mail: icapp2011@kpri.keio.ac.jp



Access from the nearest stations :

- 3-minute walk from Minato Mirai Station (Minato Mirai Line)
- From Sakuragicho Station (JR or Subway): 12-minute walk, 7 minutes by bus or 5 minutes by taxi
- From Yokohama Station: 7minutes by taxi or 10 minutes by Sea Bass (boat)

<http://www.pacifico.co.jp/visitor/accessmap.html>