The 8th International Symposium on Applied Plasma Science

YUMOTO FUJIYA HOTEL
Hakone, JAPAN
September 26 - 30, 2011

Hakone

ISAPS ’11

Sponsored by
Institute of Applied Plasma Science

Co-sponsored by
JWRI, Osaka University

In cooperation with
PSTI, UCLA
University of Belgrade
IRS, University of Stuttgart
Technical University of Lublin
Dalian University of Technology
Japan Society of Applied Physics
Institute of Electrical Engineers of Japan

Supported by
Kajima Foundation
Commemorative Organization for the Japan World Exposition ’70
ISAPS ’11

Dear Participant

It is our pleasure to invite you to participate in the 8th International Symposium on Applied Plasma Science (ISAPS ’11) to be held at the FUJIYA HOTEL, Hakone, Japan on September 26 through September 30, 2011. This symposium is held to promote international collaboration in Applied Plasma Sciences.

The 1st International Symposium on Applied Plasma Science (ISAPS ’97) was held at UCLA, Los Angeles, USA in 1997, on the occasion of the 5th anniversary of the Institute of Applied Plasma Science (IAPS). The 2nd symposium was held as the ISAPS ’99 in Osaka, Japan in September 1999, the 3rd as ISAPS ’01 in Alaska, USA in July 2001, the 4th as ISAPS ’03 in Kyoto, Japan in September 2003, the 5th as ISAPS ’05 in Hawaii, in September 2005, having over 60 delegates. the 6th as ISAPS ’07 in Nikko, Japan in September 2007 having about 100 delegates, and the latest one, the 7th was held as ISAPS ’09 in Hamburg, Germany in 2009, also having 100 delegates.

The 8th symposium will be held as the ISAPS ’11 in Hakone, Japan, organized by the Organizing Committee of ISAPS ’11, which is co-sponsored by the IAPS and the JWRI (Joining & Welding Research Institute) at Osaka University, in cooperation with the PSTI (Plasma Science and Technology Institute) at UCLA, University of Belgrade, IRS (Institute of Space Systems) at University of Stuttgart, Technical University of Lublin, Dalian University of Technology this year. It is also held in cooperation with the Japan Society of Applied Physics and Institute of Electrical Engineers of Japan.

The topics of the ISAPS ’11 focus mainly on plasma applications, including applications in microelectronics and application to environmental problems, as well as applications of other high-energy sources, such as electron, ion and laser beams. Participants in this symposium cover a wide range of interdisciplinary scientific activities in the fields of energy, mechanical, electrical, material, and chemical sciences. About 100 delegates from all over the world: USA, Germany, France, Poland, Serbia, Turkey, China, Korea, India, Australia, and Japan, etc. will participate in the symposium. About 80 presentations were planned at the ISAPS ’11. Those papers are compiled in the conference proceedings, entitled ADVANCES IN APPLIED PLASMA SCIENCE, Vol. 8, 2011.

The participation of this symposium is expected to enhance future scientific collaborations. Strong international collaboration on Applied Plasma Science is demanded to solve many problems in plasma applications to the processing of functional materials, microelectronics, environmental problems, as well as many other industrial applications.

We strongly recommend that you to attend this symposium and present your research results in this interdisciplinary research field.

We look forward to seeing you at the ISAPS ’11.

September 2011

Symposium chairman
Akira Kobayashi,
Osaka University
Organizing Committee of ISAPS ’11
Akira Kobayashi; Chair 
Yoshihiro Arakawa; Co-Chair 
Toshiro Matsumura 
Kazuya Kurokawa 
Nasr M. Ghoniem 
Monika Anweter-Kurtz 
Jagos M. Puric; Co-Chair 
Yue Liu 
Tadeusz Hejwowski

Academy ASA

Osaka University
University of Tokyo
Nagoya University
Hokkaido University
University of California, Los Angeles
University of Belgrade
Dalian University of Technology
Technical University of Lublin

Executive Committee:
Chair: A. Kobayashi (Osaka Univ.)
Members: Y. Arakawa (Univ. of Tokyo), T. Matsumura (Nagoya Univ.), K. Osaki (Yamaguchi Junior Coll.), Y. Hashimoto (Kobe City Coll. Tech.), N. Hayashi (Saga Univ.), H. Takikawa (Toyoshahi Univ. Tech.), K. Takaki (Iwate Univ.), H. Koizumi (JAXA), T. Iwao (Tokyo City Univ.), K. Komurasaki (Univ. of Tokyo), Y. Takao (Nishinippon Inst. of Tech.), H. Horisawa (Tokai Univ.), T. Matsutani (Kinki Univ.), A. Momozawa (Tokyo City Univ), M. Tsukamoto (Osaka Univ.), K. Murai (AIST Kansai), S. Sharafat (UCLA), R. Hicks (UCLA), T. Meek (Tennessee Univ.), A. Hassanain (Purdue Univ.), H. Huang (Rensselaer Polytech. Inst.), H. Liang (Texas A&M Univ.), M. Lewandoska (Warsaw Univ. Tech.) T. Hejwowski (Tech. Univ. of Lublin), M. J. Wozniak (Warsaw Univ. Tech.), A. Goncharov (Inst. Phys., NAS), V. S. Voitsenya (IPP, NSC KIPT), H. Ucisik (Bogazici Univ.), C. P. Lungu (INFPR), J. Krasa (Inst. of Phys, ASCR), K-H. Gericke (Univ. of Braunschweig), G. Van Oost (Ghent Univ.), J. Niu (NLAW), Y. Liu (Dalian Univ. of Tech.), M-W. Park (Kyungsun Univ.), K. Ostrikov (CSIRO, Australia), P. V. A. Padmanabhan (BARC), R. El-Sheikhy (King Saud Univ.)

CORRESPONDENCE:
Symposium Chair: Prof. Akira Kobayashi:
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**Guide to ISAPS ’11**

**[Language]**

The official language for the conference will be in English.

**[Registration]**

All participants should pay the following Registration Fee at the registration desk. Registration will be opened at the YUMOTO FUJIYA HOTEL in Hakone, Japan during September 25 – 30.

All payment for the registration should be made in JAPANESE YEN.

<table>
<thead>
<tr>
<th>Registration Fee</th>
<th>Regular Reg. Fee</th>
<th>member of IAPS</th>
<th>for student</th>
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<tbody>
<tr>
<td>Registration Fee</td>
<td>60,000 yen</td>
<td>50,000 yen</td>
<td>30,000 yen</td>
</tr>
<tr>
<td>(by VISA card)</td>
<td>63,000 yen</td>
<td>53,000 yen</td>
<td>32,000 yen</td>
</tr>
</tbody>
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*Note:* Registration Fee for accompanying person (companion) is 15,000 yen.

- Each registration can only submit one paper.
- Student who is not accompanied by regular participant should register as a regular participant.
- For student, the registration fee does not include the proceedings. (5,000 yen for a copy)
- Registration fee does not cover the meals (lunch, banquet, etc.).

For convenience of the preparation, it is preferable that Registration Fee should be paid by Credit Card or remitted to the following Bank Account by: September 10, 2011.

| Bank name: Sumitomo-Mitsui Banking Corporation Ibaraki Branch |
|-----------------|-------------------------------------------------------------|
| SWIFT CODE:     | SMBC_JP_JT                                                  |
| Address:        | 7-6 Eidai-cho, Ibaraki, Osaka 567-0816, Japan                |
| Phone:          | +81-72-624-4951                                             |
| Account Name:   | ISAPS2011                                                   |
| Account No.:    | 4048012                                                     |

**Research fields for ISAPS ’11**

This Symposium mainly focuses on the Applications of Plasma Science and other high-energy sources (electron beam, ion beam, laser beam, etc.); Plasma applications in microelectronics; Plasma applications to environmental problems, Advanced materials & Characterization; and related applied sciences.

**[Research Topics]**

- Plasma production, diagnostics, modeling & simulations
- Plasma propulsions and Energy applications
- Plasma processing (surface modification, deposition, thermal spray, etc.)
- Plasma processing for High heat resistant materials
- Plasma applications in microelectronics
- Plasma applications to environmental problems
- Advanced plasma processing
- Advanced materials and Characterization
- Industrial applications of directed energy sources (e-beams, ion beams, lasers)
Proceedings:
Proceedings of the ISAPS ’11 will be published prior to the symposium. All papers in the proceedings must be refereed in advance. And the proper number of refereed papers will be published in the book “ADVANCES IN APPLIED PLASMA SCIENCE, Vol.8, 2011” by the IAPS at the time of the symposium. The guideline for preparation of manuscript will be sent to prospective authors at a later date and the deadline of the manuscript for the proceedings is June 15, 2011. Late manuscripts may not be accepted for publication in the symposium proceedings.

*Categories in ADVANCES IN APPLIED PLASMA SCIENCE, Vol.8, 2011:

This book mainly focuses on the applications of Plasma Science and other high energy sources (electron beam, ion beam, laser beam, etc.). The categories in this book are as follows:

- Plasma sources, modeling & simulations
- Propulsion
- Plasma processing (surface modification, thermal spraying, etc.)
- Plasma applications to environmental problems
- Advanced materials (hybrid functionality, composite, microelectronics, etc.)
- Characterization and evaluation of materials
- High energy processing and Industrial applications

Special Issues:
Authors of selected papers presented at the Symposium will be invited to submit full length (6pages), peer-refereed manuscripts for publication in a special issue of Vacuum or the IAPS journal Frontier of Applied Plasma Technology, etc. We are now planning to collect the following 3 type of contribution.

3. Precedia, Web Journal by Elsevier: under consideration

All the regular paper should be rewritten after the conference including the discussion at the presentation and peer reviewed by each editorial broad. The method for the contribution to the special issue will be informed to the authors who intend to submit papers after the conference. Also the article preparation guide for each special issue will be sent to prospective authors at a later date.

The Organizing Committee undertakes to inform the authors that submission of a paper implies that it represents original work not previously published and not being considered for publication elsewhere. All previously published material shall be fully acknowledged in the manuscript. If any material from third parties is incorporated in the manuscript, the Organizing Committee shall have procured prior to the date of manuscript delivery, at their expense, permission in writing from each copyright holder of such material to use such material in the manuscript consistent with the terms of the rights granted pursuant to the copyright item at the end of this document.

[Deadline]

- Abstract: May 15, 2011
- Pre-registration: May 31, 2011
- Manuscript: June 15, 2007
- Revised Manuscript: August 30, 2011
- Payment of the Publication Fee: October 30, 2011
- Manuscript for Special Issue: October 30, 2011
- Reviewing Process: November-December, 2011
[Program]

The program of the ISAPS ’11 will be prepared at the end of June 2011, after the Abstracts accepted by May 15, 2011. Plenary Session and more number of Oral Sessions are planned during the conference period. Both oral and poster presentations will be included in the conference program. Student should essentially present in poster presentation. This program is subject to change without notice to the participants. And the final program is compiled in this pamphlet.

[Excursions]

City tour to the neighbors of Yumoto Fujiya Hotel in Hakone will be planned in the afternoon of September 27. Also short trip to Volcano (Ohwakudani) and Lake (Ashinoko) will be planed in the afternoon of September 28. There are a lot of interesting places for sightseeing in the surroundings, Mt Fuji and Forests and Lakes. Participants will obtain additional personal or group tours at the registration desk during the symposium.

[Accommodation]

A number of rooms in the Yumoto Fujiya Hotel have been reserved for ISAPS ’11. The room charge will be different for the different room type. For example, the room charge is about 18000 yen for single use without breakfast. This special discount rate will be offered to Symposium participants if the participants will order through the Organizing Committee.

Yumoto Fujiya Hotel
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FAX: +81-460-85-6142
E-mail: vf.shukuhaku@fujiyahotel.co.jp

[Hakone City Map]

[Location & Transportation]

Hakone is one of the most popular sightseeing areas in Japan. With Mt. Fuji as its backdrop and featuring Ashino-ko Lake, intriguing museums and traditional hotels and ryokans, Hakone's varied geographical feaures and famous hot springs (onsens) are must experiences for all travelers.

◇ SCHEDULE ◇

1st Announcement: August 2010
2nd Announcement: December 2010
Final Announcement: May 2011
Program List: June 2011
Final Program: August 31, 2011