

The 26th Annual Meeting of IAPS

The 12th International Workshop on Plasma Application and Hybrid Functionally Materials

Jointed with

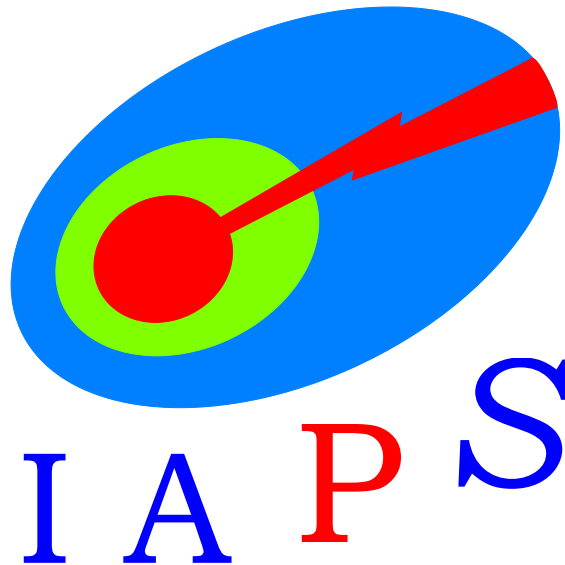
The 6th Workshop on Discharge Induced in High-Energy Electromagnetic Beam

March 8-11, 2019

at

Double Tree by Hilton, Naha Shuri Castle

Okinawa



Sponsored by

Institute of Applied Plasma Science

Co-sponsored by

University of Ryukyu

In Cooperation with

**Chulalongkorn Univ., Dalian Univ. of Tech.
Xian Jiaotong University**

The 26th Annual Meeting of Institute of Applied Plasma Science

The 12th International Workshop on Plasma Application and Hybrid Functionally Materials

The 6th Workshop on Discharge Induced in High-Energy Electromagnetic Beam

IAPS Meeting 2019 in Naha, Okinawa

September, 2018

Dear Participants:

The 26th Annual Meeting of IAPS, and the 11th International Workshop on Plasma Application and Hybrid Functionally Materials jointed with the 6th Workshop on Discharge Induced in High-Energy Electromagnetic Beam, will be held at Hotel **Double Tree by Hilton, Naha, in Okinawa** on March 8(F) - 11(M) in 2019. This international event follows the First International Workshop held in Dalian, China in March 2008, the Second held in Kobe, Japan in March 2009, the Third in Busan, Korea in February 2010, the Forth held in Melbourne, Australia in March 2011, the Fifth held in Taipei, Taiwan in March 2012, and the Sixth held in Kuala Lumpur, Malaysia in March 2013, the Seventh held in Hong Kong Polytechnic University, Hong Kong in March 2014, the Eighth held in Waikiki, Hawaii in March 2015, and the 9th held in Bangkok in March, 2016. **The 10th** was held in Hanoi in March, 2017, and the IAPS Meeting 2018: the 11th International Workshop was held in Manila on March 9-12 in 2018. And, the **IAPS Meeting 2019: the 12th International Workshop on Plasma Application and Hybrid Functionally Materials**, jointed with **the 6th Workshop on Discharge Induced in High-Energy Electromagnetic Beam** was held in Naha, Okinawa on March 8(F) -11(M) in 2019.

The IAPS Meeting has been held annually in Japan since the establishment. The first meeting was held in Osaka. 30-50 members of IAPS participate in the annual meeting every time from all over Japan and present the front data related on the Applied Plasma Science and discuss with each other about the mutual issues on the various plasma applications and so on. The topics of IAPS Meeting 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. We, this time also, expect that many research results will be presented and a lot of questions and answers, and moreover valuable discussions will be there.

We would like to invite you to participate in the **IAPS Meeting 2019: the 12th International Workshop on Plasma Application and Hybrid Functionally Materials** jointed with **the 6th Workshop on Discharge Induced in High-Energy Electromagnetic Beam**, in Okinawa on March 8(F) -11(M) in 2019. Let's enjoy the opportunity to have an extensive communication and discussion on applied plasma science together with other colleague scientists.

We are looking forward to seeing you in Okinawa in March 2019.

Sincerely yours,

Prof. Akira Kobayashi
Chairman of Organizing Committee
Department of Physics, Faculty of Science
Chulalongkorn University, Bangkok 10330, Thailand
G. Prof. of Osaka University, JAPAN
Email: koayashi@nucl.eng.osaka-u.ac.jp

ORGANIZATION

Organizing Committee of

IAPS Meeting 2018 / the 11th International Workshop on Plasma Application & Hybrid Functionally Materials, the 6th Workshop on Discharge Induced in High-Energy Electromagnetic Beam

Akira Kobayashi; Chair	<i>Chulalongkorn University</i>
Kimiya Komurasaki	<i>University of Tokyo</i>
Hirofumi Takikawa	<i>Toyohashi University of Technology</i>
Nobuya Hayashi	<i>Kyushu University</i>
Leo Cristobal C. Ambolode II; Chair	<i>MSU-Iligan Institute of Technology</i>
Rattachat Mongkolnavin	<i>Chulalongkorn University</i>
Yue Liu	<i>Dalian University of Technology</i>

Executive Committee:

Chair:	N. Hayashi	<i>Kyushu University</i>
Co-Chair:	K. Komurasaki	<i>University of Tokyo</i>
	A. Kobayashi	<i>Chulalongkorn Univ.</i>
Members:	K. Kurokawa	<i>N. Inst. of Tech. Tomakomai College</i>
	K. Takaki	<i>Iwate University</i>
	Y. Ando	<i>Ashikaga Institute of Technology</i>
	S. Yokota	<i>University of Tsukuba</i>
	J. Aoyagi	<i>Yamanashi University</i>
	T. Yamaguchi	<i>Edogawa University</i>
	H. Watanabe	<i>Tokyo Metropolitan University</i>
	A. Momozawa	<i>Tokyo City University</i>
	H. Horisawa	<i>Tokai University</i>
	M. Matsui	<i>Shizuoka University</i>
	H. Takikawa	<i>Toyohashi University of Technology</i>
	T. Miyasaka	<i>Gifu University</i>
	S. Tashiro	<i>Osaka University</i>
	H. Tahara	<i>Osaka Institute of Technology</i>
	T. Matsutani	<i>Kindai University</i>
	Y. Hashimoto	<i>Kobe City College of Tech.</i>
	Y. Oka	<i>University of Hyogo</i>
	Y. Takao	<i>Nishinippon Institute of Technology</i>
	R. Tsukizaki	<i>JAXA</i>
	Naofumi Ohnishi	<i>Tohoku University</i>
	Hiroyuki Shiraishi	<i>Daido Univ.</i>
	Koichi Mori	<i>Nagoya Univ.</i>
	Hiroshi Katsurayama	<i>Yamaguchi Univ</i>
	Yasuhisa Oda	<i>QST</i>
	Tsuyoshi Kariya	<i>Univ. of Tsukuba</i>
	C.S. Wong	<i>University of Malaya</i>
	R. Mongkolnavin	<i>Chulalongkorn University</i>
	M-W. Park	<i>Kyungshung University</i>
	Y. Liu	<i>Dalian University of Technology</i>
	C-J. Li	<i>Xi'an Jiaotong University</i>
	K. Suresh	<i>Bharathiar University</i>
	S. Yugeswaran	<i>Bharathiar University</i>
	R.Sitek	<i>Warsaw University of Technology</i>
	Refat Ahmed El-Sheikhy	<i>King Saud University</i>

Guide to IAPS 2019

at DoubleTree by Hilton, *Naha Shuri Castle*

[Language]

The official language for the conference will be English.

[Registration]

All the participants should pay the following Registration Fee at the registration desk. Registration will be open at the Foyer in front of the meeting room: on March 8-9, 2019.

	Member of IAPS	Regular Reg. Fee	for student
Registration Fee	33,000 yen	39,000 yen	17,000 yen
Pre-registration Fee (up to Jan.31, 2019)	28,000 yen	33,000 yen	15,000 yen

Note:

- ✧ Registration fee does not cover the meals (lunch, banquet, etc.).
- ✧ Fee for an accompanying person (companion) is 10,000 yen, which covers the meals.
- ✧ Student who is not accompanied by the regular participant should pay the regular registration fee.
- ✧ For student, the registration fee does not include the proceedings (2,000 yen for a copy).
- ✧ Each registrant can submit only one paper.
- ✧ All payment for registration should be made in Japanese Yen.

For convenience of the preparation, it is preferable that Registration fee should be remitted to the following Bank Account by [February 28, 2019](#).

<p>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</p> <p>Account Name: IAPS MEETING Account Number: 4127246</p>

Research Fields

This workshop 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 (hybrid functionality, composite, microelectronics, etc.)
- Characterization and evaluation of materials
- Industrial applications of directed energy sources (e-beams, ion beams, lasers)

Proceedings

Proceedings of the IAPS Meeting will be published prior to the symposium. All the manuscripts (1 or 2 pages length) submitted before the deadline will be published in the journal “**Plasma Application & Hybrid Functionally Materials**”, Vol.28, 2019 (ISSN 1340-9557) by the **IAPS** at the time of the workshop. 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 **January 25, 2019**. *Late manuscripts may not be accepted for publication in the Proceedings of IAPS meeting, “Plasma Application & Hybrid Functionally Materials”, Vol.28, 2019.*

[Frontier of Applied Technology, Volume 12-2]

Authors of selected papers presented at the International Workshop will be invited to submit 6 pages length, peer-refereed manuscripts for publication in the Journal “**Frontier of Applied Plasma Technology**” (ISSN 1883-5589, indexed in CA (CODEN: FAPTBK)) by **IAPS**. The publication fee for the special issue is 20,000 yen (Regular Price: 25000yen). The method for contributing to “Frontier of Applied Plasma Technology” **Vol.12 No.2** (2019) will be informed to the authors who intend to submit papers. Also the article preparation guide for the proceedings will be sent to the prospective authors at a later date.

[Program]

The program of the IAPS Meeting & the International Workshop will be prepared by the middle of Feb. 2018 after the **Manuscripts** are accepted by **Jan. 25, 2019**. Plenary Session and more number of Oral and Poster 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.

[Excursions]

Sightseeing tour to Naha City including the Shuri Castle site which is world heritage place, and one of famous beach in Okinawa Coast Area will be planned on March 10, 2019. The details of this post conference tour will be suggested at a later date. Some optional tours will also be prepared by the travel agency.

[Accommodation]

The Hotel, Double Tree by Hilton, Naha Shuri Castle is located nearby the center of Naha, and can be access by Monorail Station. The Double Tree by Hilton is the conference site, have been introduced for the IAPS meeting and the International Workshop between March 8-11, 2018 (3 nights). The room charge of available Hotels will be US\$140-160 for night, which has different room types. The number of rooms is limited, so participants should inform an intention on their accommodations to the organizing committee earlier until January 31, 2019, and reserve the room by yourself.

[Location & Transportation]



Hotel: Naha Shuri

Naha is the prefectural office of Okinawa, the capital of the former Ryukyu Kingdom. The site is now a world heritage in Okinawa, but there are also many tourist resources such as resort of southern country beach. Naha is a capital city of Okinawa, which is one of attractive prefecture in Japan. Double Tree by Hilton, Naha Shuri Castle, the place for the conference is located in the Naha City. It takes only 30 minutes from Naha International Airport. The transportation for coming to the Hotel is recommended by taxi from Monorail Stations.

◇SCHEDULE◇

Deadline

Manuscript for Workshop proceedings: Jan 25, 2019

Final Program: Feb 10, 2019

Manuscript for *Frontier...*, Vol.11-2 Mar 31, 2019

◇SCHEDULE◇

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Double Tree by Hilton, March 8-11, 2019

DATE	EVENT	LOCATION	AFFILIATION
March 8 (Fri), 2019 Int. Workshop & IAPS Meeting	AM: Registration PM: Lunch 1:30 Opening 1:45 Plenary Session 3:00 Coffee Break 3:20 Oral Presentation (Session A) 4:45 Group Photo 6:00 Welcome Party	Registration at Foyer Double Tree by Hilton Conference Room Double Tree by Hilton	EXECUTIVE COMMITTEE
March 9 (Sat), 2019 Int. Workshop & 26th Annual Meeting of IAPS	AM: Registration 8:30 6 th Workshop (Session B) 10:00 Coffee Break 10:20 Oral Presentation (Session C) 12:00 Lunch PM: 1:15 Oral Presentation (Session D) 2:45 (Coffee Break) 3:00 Poster Session 1 (Session E) 4:00 Poster Session 2 (Session F) 5:00 26th Annual Meeting of IAPS 5:30 Group Photo 6:00 Banquet	Registration at Foyer Double Tree by Hilton Conference Room Double Tree by Hilton Conference Room Double Tree by Hilton Double Tree by Hilton	EXECUTIVE COMMITTEE
March 10 (Sun), 2019	AM: Post Conference Tour 8:30 Double Tree by Hilton PM: Lunch 1:30 City tour	Shuri Cassle etc.	EXCURSION
March 11 (Mon), 2019	AM: Panel Discussion 10:00 Campus Tour at University	University of Ryukus, etc.	CHECK-OUT

This schedule is subject to change without notice.

Location of IAPS Meeting 2019

Double Tree by Hilton

*All questions related to this workshop should be directed to the chairmen of IAPS Meeting 2019.

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