

Important Dates

2nd Circular and Call for Paper.....**January, 2008**
Abstract Submission Start.....**April 1, 2008**
Abstract Deadline (only on Web site)..**June 30, 2008**
Acceptance Notice.....**September 9, 2008**
Program on Web.....**October 1, 2008**
Advance Registration.....**October 9, 2008**
(only on Web site)
Manuscript Deadline.....**October 9, 2008**
(via Online Submission of e-JSSNT)
Symposium.....**November 9-13, 2008**

Homepage

For updated information, visit our Web site:

<http://www.sssj.org/iss5>

You can make on-line [Registration](#), [Hotel Reservation](#),
[Abstract Submission](#), and download a [payment](#) format
from this Web page.

Correspondence

Takashi TANII, Associate Professor

ISSS-5 Secretary

Faculty of Science and Engineering,

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3-4-1 Ohkubo, Shinjuku, Tokyo 169-8555, Japan

Tel: +81-3-5286-3842 Fax: +81-3-5272-5749

e-mail: iss5secretary@sss.j.org

Registration and Hotel Reservation

ISSS-5 Desk

Nippon Travel Agency Co., Ltd.,

Event & Convention Sales Division

5th Fl. Nihon Koa Ginza Bldg.,

7-13-10, Ginza, Chuo-ku, Tokyo 104-0061, Japan

Tel: +81-3-5565-9890 Fax: +81-3-5565-9611

e-mail: mcs_center@nta.co.jp

International Symposium on Surface Science and Nanotechnology

ISSS-5



Second Circular and Call for Papers

November 9–13, 2008

International Conference Center
Waseda University, Tokyo, Japan

Organized by

The Surface Science Society of Japan
(SSSJ)



Supported by

Japan Society for the Promotion of Science (JSPS)
and
Waseda University

Scope and Background

ISSS-5 is the 5th in a series of international symposia organized by The Surface Science Society of Japan. This symposium highlights the recent achievements in the fields of nanoscience and nanotechnology based on the surface-science techniques. Major topics include theory and dynamics, fabrication and application of nano-structures and nano-materials, novel characterization methods, and chemical and biological applications. Interdisciplinary studies and discussion on the future directions of the fields are strongly encouraged.

Topics

Theory, structure and dynamics

- Theoretical approaches to surface/interface- and nano-structures, and properties
- Surface structures: atomic and electronic structures, and surface vibrations
- Surface dynamics: adsorption, desorption, reaction, and diffusion

Fabrication and physical properties

- Atomic-scale controlled surfaces/interfaces, and self-organized nanostructures
- Nano-materials: nanotubes, nanowires, nanoparticles, and nanodots
- Fabrication processes: epitaxy, deposition, etching, cleaning, and thin-film growth
- Device applications of metal, ceramics, organic, and hybrid films

Characterization methods

- Characterization of novel surfaces, interfaces, and nanostructures
- Tools and standards for micro/nano-analysis
- Scanning probe microscopy

Surface chemistry

- Colloid chemistry and soft materials: supramolecules, macromolecules, and liquid crystal
- Electrochemistry, photochemistry, and catalysis
- Self-assembly and self-organization for nanostructure formation, and characterization

Biological applications of surface science and nanotechnology

- Nanobio-process, biosurfaces, and biointerfaces
- Bio-diagnostics, bioassays, and biosensors

Plenary Lectures

- **Yasuhiro Iwasawa** (Univ. of Tokyo)
In situ surface science of catalysis: structures and reaction mechanisms at surfaces
- **Patrick Soukiassian** (Univ. de Paris-Sud/Orsay)
Engineering and understanding surface, interfaces, and nanostructures properties at the atomic scale
- **Wolfgang Knoll** (Max Planck Institute)
Interfacial architectures for bio-sensing

Invited Talks (Partial List)

Theory, structure and dynamics

- **Mads Brandbyge** (Tech. Univ. of Denmark)
Theoretical studies of electron transport in nano-scale systems
- **Alessandro De Vita** (King's College London)
Modelling the self-assembly of supported supramolecular nanostructures
- **Ulrich Heiz** (Tech. Univ. of Munich)
Size-dependent chemistry of supported clusters
- **Natarajan Chandrasekhar** (Inst. of Materials Research and Engineering, and Nat'l Univ. of Singapore)
BEEM - probing technologically important interfaces with nanometer spatial resolution
- **Andrew Hodgson** (Liverpool Univ.)
The structure and reactions of water and OH at metal surfaces
- **Bruce D. Kay** (The William R. Wiley Environmental Molecular Sciences Laboratory)
Adsorption, desorption, phase transformation, and diffusion kinetics in nanoscale ice films

Fabrication and physical properties

- **Andreas Heinrich** (IBM Almaden Research Center)
Atomic-scale magnetism on surfaces
- **Richard Berndt** (Univ. of Kiel)
Elastic and inelastic effects in electronic transport through single atoms and molecules
- **Chuan Liang Feng** (Max Plank Inst.)
Quantum-dot/dendrimer based FRET structured functional nanotubes for sensitive studies of DNA hybridization
- **Kenji Hata** (AIST)
Super-growth CVD for mass production of carbon nanotubes and its applications
- **Masaharu Oshima** (Univ. of Tokyo)
In-situ photoelectron spectroscopy and photoemission electron microscopy for local electronic and magnetic structures of transition metal oxide thin films
- **Kenji Shiraishi** (Univ. of Tsukuba)
What happens at nano-scale interfaces?
- **Masakazu Nakamura** (Chiba Univ.)
Limiting factors of carrier transport in organic TFTs with polycrystalline active layer

Characterization methods

- **Michel A. Van Hove** (City Univ. of Hong Kong)
Nanostructure from scanning tunneling microscopy and low-energy electron diffraction
- **Shirley Chiang** (Univ. of California-Davis)
High resolution surface microscopy of nucleation, growth, and phase transitions
- **Thomas Schmidt** (Univ. of Würzburg)
(to be announced)
- **Hiroshi Daimon** (NAIST)
(to be announced)

Surface chemistry

- **Satomi Ohnishi** (Univ. of South Australia)
Friction and capillary forces at the nanometer scale

- **Masatsugu Shimomura** (Tohoku Univ.)
A novel nano bio-interface prepared by self-organization
- **Charles T. Campbell** (Univ. of Washington)
Thermodynamics and kinetics of elementary steps in catalysis
- **Atsushi Takahara** (Kyushu Univ.)
Molecular design and characterization of soft interfaces
- **Li-Jun Wan** (Chinese Academy of Sciences)
Surface molecular engineering: from single molecule to self-assembly

Biological applications of surface science and nanotechnology

- **Robert Hamers** (Univ. of Wisconsin-Madison)
(to be announced)
- **Andreas Offenhäusser** (Research Center Jülich)
(to be announced)
- **Hiroshi Kawarada** (Waseda Univ.)
On the mechanism of DNA and RNA sensing by chemically modified diamond surface

Topical Sessions

Three Topical Sessions will be held along with the other sessions. In each session, cutting-edge topics are presented by the invited speakers leading the field. The Topical Sessions are open for poster presentation only.

Graphene

Organizer.....Y. Awano (FUJITSU)

Bio-MEMS

Organizer.....H. Fujita (Univ. Tokyo)

Nano-Tribology

Organizer.....N. Sasaki (Seikei Univ.)

Abstract Submission

A one page abstract (A4 size, 297×210mm) is required for each presentation. It should contain the title of paper, author(s), affiliation, postal address, e-mail address of the corresponding author, and main text. The abstract should be in Word or PDF format (less than 2 MB in size), and submitted through our Symposium Web page. You can find the sample on our Web page. **The deadline for abstract submission is June 30, 2008.** The author is requested to declare the preferred presentation form (oral or poster). The Topical Sessions are open for poster presentation only. The corresponding author will be informed of acceptance by September 9, 2008. A work book with all abstract papers in the "as-received" form will be handed to the participants at the symposium site.

Proceedings

The proceedings of ISSS-5 will be published in **e-Journal of Surface Science and Nanotechnology (e-JSSNT)**. All papers will be subject to peer review, handled by the program/publication committee of the Symposium. All invited speakers are requested to submit papers which are either original or review papers. Contributed papers should be original. **The deadline of manuscript submission is October 9**, a month in advance of the Symposium. The manuscript can be submitted on-line via a Web page of e-JSSNT.

Since the journal is solely an electronic journal, the papers are individually, and rapidly, published on the Web immediately after acceptance, and are unaffected by delays in other papers. There are no page limitations or fees for publication. The authors are encouraged to use color figures and movies. Detailed information and instructions for manuscript preparation are on the journal Web page <http://www.sssj.org/ejsnt>.

Schedule of Symposium

November

9 (Sun)	3:00pm-6:00pm.....	Registration and Get-Together
10 (Mon)	9:30am-8:00pm.....	Scientific Sessions
11 (Tue)	9:30am-6:00pm.....	Scientific Sessions
	6:30pm-8:30pm.....	Banquet (Rihga Royal Hotel)
12 (Wed)	9:30am-8:00pm.....	Scientific Sessions
13 (Thu)	9:30am-1:00pm.....	Scientific Sessions

The registrants can also attend the **Annual Meeting of the Surface Science Society of Japan** (Nov. 13 - 15) which follows ISSS-5 at the same place. (Papers are presented in Japanese there.) **The registration fee for the Meeting is waived for the ISSS-5 participants.** (But you need pay for the abstract book.)

Awards

We have established two kinds of awards for young researchers registered in ISSS-5. You should express your intention to be a candidate at the abstract submission. Young researchers should be 35 years old or younger on 9 Nov., 2008. The birthday will be checked by the passport or ID card at the judgment during the symposium.

Travel Award: Several excellent Asian young researchers will be supported with ¥50,000 per person as Travel Award. They will be judged only by their abstracts.

Best Poster Award: Several excellent posters presented by young researchers will be awarded. It will be judged by vote of all participants at the poster session on Nov. 10.

For both Awards, the candidate should be the first author of paper and present it by himself/herself, and is requested to submit a manuscript for the proceeding paper. The winners will be commended with medals at Symposium Banquet.

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S. Kamohara (Renesas)	K. Tamada (Tohoku Univ.)	S. Fukatsu (Univ. Tokyo)	

Accommodation

Nippon Travel Agency has secured a sufficient number of rooms in a variety of hotels for the period of the Symposium, taking into consideration the needs and budgets of the participants. A special discount rate is being offered to symposium participants. These special symposium rates will not apply to participants making reservation directly to the hotel. For application, please send the Hotel Application form no later than October 9.

[Code] Class	Hotel Name	Single (Size)	Twin (×2) (Size)	Access to Symposium Site
[A] Deluxe	Rihga Royal Hotel Tokyo	JPY25,000 (31m ²)	JPY13,000 (38m ²)	6 min walk
[B] Superior	Hotel Grand Palace	JPY17,425 (23.7m ²)	JPY10,395 (25.4m ²)	10 min walk
[C] First	Hotel Sunroute Higashi Shinjuku	JPY10,800 (15m ²)	N/A	15 min by bus (or 5min by taxi)
[D] Standard	Ark Hotel Tokyo	JPY8,610 (13m ²)	JPY7,350 (19m ²)	10 min Tram and 5 min walk

The rates listed above are per night, per person and include a 10% service charge and tax. Breakfast is included. Regular hotel charge may apply to on-site payment at the hotel.

Payment

Upon the receipt of the Registration and Hotel Application Form, Nippon Travel Agency will send you Confirmation & Invoice stating the total amount due. Please choose one of the two methods of payment and specify which one on the Registration & Hotel Reservation Form. All payments must be in Japanese Yen. If you choose payment by credit card, the total amount will be charged to your credit card prior to the symposium.

(1)Credit Card

American Express, Diners Club, Master Card or Visa.

(2)Bank Transfer in Yen:

Sumitomo Mitsui Banking Corporation
Hibiya Branch Account No: 3033298
Account Name: Nippon Travel Agency
Swift Code: SMBCJPJT

Registration and Fee

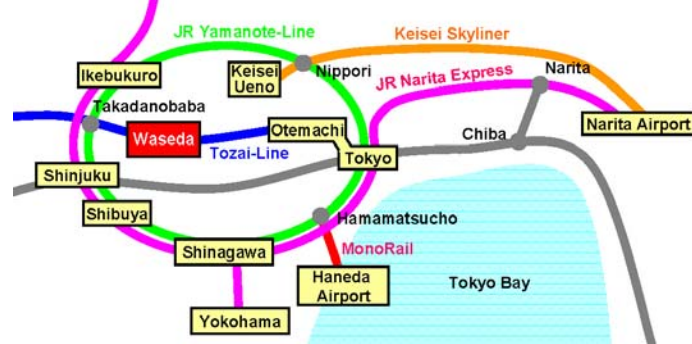
The Symposium is open to all scientists on completion of the registration form. Please note that on-line registration is the preferred method. Full instruction on how to register, the on-line form, and information of payment methods can be found on our Web page. If you are unable to register on-line, please use a form located at the end of this booklet.

Registration Fee (JPY)	Advance Registration (On/Before Oct. 9)		On-Site Registration (On/After Oct. 10)	
	Non- Member	SSSJ Member	Non- Member	SSSJ Member
Full Registration	48,000	40,000	53,000	45,000
Student	12,000	10,000	14,000	12,000
Accompanying Person	4,000		5,000	

- The Full Registration Fee includes the admission to all symposium sessions and exhibition, an abstract book, publication of a proceeding paper, a Proceedings, and refreshments at short breaks. The Student Fee includes the same things. The Accompanying Person Fee includes the admission to exhibition and refreshments at short breaks.
- All participants including accompanying persons are invited to Get-Together (Nov. 9) and Banquet (Nov. 11).
- If a registered non-member of SSSJ wants to subscribe the SSSJ membership of FY2009, he/she can subscribe it without payment of the membership fee of JPY9,000 (just by checking a box on the registration form). You will receive SSSJ bulletins monthly from April 2009. (The bulletins are mainly written in Japanese.)
- Registration Fee will not be refunded.

Symposium Site

The Symposium will be held at International Conference Center (Center for Scholarly Information), Waseda University, Tokyo (<http://www.waseda.jp/eng/campus/>), which is located within 5 min walk from Subway Tozai Line Waseda Station. Waseda station is reachable within 30 min from Shinjuku station via Takadanobaba station. Since Otemachi station is directly connected to Tokyo station, Waseda station is also reachable from Tokyo station by Subway Tozai Line.



From Narita Airport:

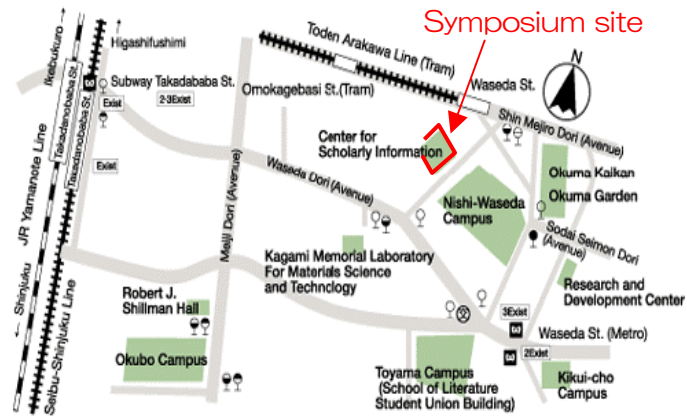
- (1) **JR Narita Express** →(50 min)→Tokyo Station: Change to Tokyo Metro Tozai Line (for Nakano) →(10 min walk)→ Otemachi Station→(20 min)→Waseda Station.
- (2) **Keisei Skyliner** →(60 min)→Nippori Station: Change to JR Yamanote Line→(30 min)→Takadanobaba Station: Change to Tokyo Metro Tozai Line (for Nishifunabashi)→ (5 min)→Waseda Station.

From Haneda Airport:

MonoRail→(20 min)→JR Hamamatsucho Station: Change to JR Yamanote Line→(40 min)→JR Takadanobaba Station: Change to Tokyo Metro Tozai Line (for Nishifunabashi)→ (5 min)→Waseda Station.

Access to Waseda University:

- | | |
|-----------------------------------|--|
| By Subway Tozai Line | Waseda Station
(5 min walk) |
| By Tokyo City Bus
(School Bus) | Route: Takadanobaba
Station to Sodai Seimon |
| By Toden Arakawa Line
(Tram) | Route: Minowabashi
to Waseda (5 min walk) |



<Hotel Information>

• **Rihga Royal Hotel Tokyo**

<http://www.rihga.com/tokyo/index.html>
1-104-19 Totsuka-cho, Shinjuku-ku, Tokyo
TEL : +81-3-5285-1121 **FAX** : +81-3-5285-4321
Nearest station: Waseda St. (Tozai Line)

• **Hotel Grand Palace**

<http://www.grandpalace.co.jp/html/english/index.html>
1-1-1 Iidabashi, Chiyoda-ku, Tokyo
TEL : +81-3-3264-1111 **FAX** : +81-3-3230-6822
Nearest station: Kudanshita St. (Tozai Line)

• **Hotel Sunroute Higashi Shinjuku**

<http://www.sunroutehotel.jp/hhsj-eng/>
7-29-9 Shinjuku, Shinjuku-ku, Tokyo
TEL : +81-3-5292-3610 **FAX** : +81-3-5292-3611
Nearest station: Higashi-shinjuku St. (Oedo Line)
(Change to the Oedo Line at Shinjuku St. (JR))

• **Ark Hotel Tokyo**

<http://tokyo.ark-hotel.co.jp/>
3-5-5 Higashi-Ikebukuro, Toshima-ku, Tokyo
TEL : +81-3-3590-0111 **FAX** : +81-3-3590-0224
Nearest station: Ikebukuro St. (JR) or
Higashi-Ikebukuro St. (Tram)

REGISTRATION and HOTEL APPLICATION FORM

The 5th International Symposium on Surface Science and Nanotechnology (ISSS-5), Nov. 9-13, 2008

Deadline for advance registration: Oct. 9, 2008 Please return this Application Form by airmail or fax.

ISSS-5 Desk

Return this form to: Nippon Travel Agency Co., Ltd., Event & Convention Sales Division
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7-13-10, Ginza, Chuo-ku, Tokyo 104-0061, Japan

TEL: +81-3-5565-9890
FAX: +81-3-5565-9611
E-mail: mcs_center@nta.co.jp

APPLICANT: Prof. Dr. Mr. Ms. *Please Print
Last Name: _____ First Name: _____ Middle Name: _____

Affiliation: _____

Mailing Address: _____

Zip Code: _____ Country: _____

Phone: + _____ Fax: + _____

E-mail: _____ Accompanying Person's Name: _____

A. REGISTRATION

Please check the appropriate box.

	ADVANCE (on/before Oct. 9, 2008)	REGULAR (on/after Oct. 10, 2008)
Full registration (SSSJ member)	<input type="checkbox"/> 40,000 JPY	<input type="checkbox"/> 45,000 JPY
Full registration (SSSJ non-member)	<input type="checkbox"/> 48,000 JPY	<input type="checkbox"/> 53,000 JPY
Students (SSSJ member)	<input type="checkbox"/> 10,000 JPY	<input type="checkbox"/> 12,000 JPY
Students (SSSJ non-member)	<input type="checkbox"/> 12,000 JPY	<input type="checkbox"/> 14,000 JPY
Accompanying Person(s)	<input type="checkbox"/> 4,000 JPY	<input type="checkbox"/> 5,000 JPY
	_____ person(s) Name: _____	

Sub Total (A): ¥ _____

B. HOTEL ACCOMODATION

Deadline: Oct. 9, 2008

Choose hotel from the hotel list	1st Choice: (Code _____) Hotel name: _____	2nd Choice: (Code _____) Hotel name: _____
Room Type:	<input type="checkbox"/> Single <input type="checkbox"/> Twin (Sharing Person _____)	
Check-in Date: _____	Check-out Date: _____	Number of Night(s): _____

Sub Total (B): ¥ _____

Grand Total (A) + (B): ¥ _____

On the receipt of your application, Nippon Travel Agency will send you Confirmation & Invoice with the total amount due. Registration is confirmed when registration fee is paid in full. Hotel and/or tour reservations are confirmed when hotel charges are paid in full. Credit card payments for hotel charges will be deducted in full by Nippon Travel Agency prior to check-in date. Regular hotel charges may apply to on-site payment at the hotel.

PAYMENT: Credit Card: MasterCard Visa American Express Diners Club

Card No.: _____ - _____ - _____ Valid thru: _____ (month)/ _____ (year) Card Holder: _____

Authorized Signature: _____ Date: _____

Payment by bank transfer to:

(For Japanese participants)

Bank Name: Sumitomo Mitsui Banking Corporation, Hibiya Branch

三井住友銀行 日比谷支店

Account No.: 3033298 Swift Code: SMBCJPJT Account Name: Nippon Travel Agency (普通) 3033298 口座名: 株式会社日本旅行