Asia Steel International Conference 2015
(Asia Steel 2015)

October 5 – 8, 2015
PACIFICO YOKOHAMA
Yokohama, Japan

Organized by
The Iron and Steel Institute of Japan

Co-organized by
The Chinese Society for Metals
The Korean Institute of Metals and Materials
The Indian Institute of Metals

http://www.asiasteel2015.com
Contents / Important Dates

Contents

Invitation to Asia Steel 2015 ............................. 3
Organizers / Committees .................................. 4
Conference Outline / Topics / Lecturers ............. 5
Schedule / Social Events ................................. 7
Call for Abstracts ......................................... 8
Registration / Accommodation ......................... 9
General Information ........................................ 11
Access ....................................................... 12

Important Dates

• Abstract Submission Deadline
  Friday, January 30th 2015

• Manuscript (Full Paper) Submission Deadline
  Tuesday, June 30th 2015

• Pre-registration Deadline (Early)
  Friday, July 31st 2015

• Pre-registration Deadline (Regular)
  Monday, September 7th 2015

• Conference (Distribution of Proceedings)
  October 5-8, 2015
Introduction

In the continuously developing Iron Age, annual crude steel production for Asia reached 1012.7 Mt in 2012, which exceeds 65% of world steel production. In order to establish sustainable society, Asian iron and steel community will surely play more important roles than ever. Meanwhile, we are still facing various issues which require improvement, such as productivity, quality of steel products, environmental impact, etc.

The 1st Asia Steel International Conference was held in China in 2000 for the purpose of exchanging information on issues related to the iron and steel production and processing, and thereafter it has been successfully held every three years alternately in India (2003), Japan (2006), Korea (2009) and China (2012). In continuation, Asia Steel 2015 will be held in Yokohama, Japan during October 5-8, 2015, also in celebration of 100th anniversary of Iron and Steel Institute of Japan established in 1915.

To celebrate ISIJ 100th anniversary with a large number of research presentations, ASIA steel is merged with the second ICAS (International Conference on Advanced Steel). The 1st ICAS was held in Guilin, China in 2010 as a merger of two international series conferences: “International Symposium on Ultrafine Grained Structures (ISUGS)” and “International Conference on Advanced Structural Steels (ICASS)” which were originated by ISIJ. The 2nd ICAS was to be held in Japan (2013), but postponed due to Fukushima Nuclear Accident.

We cordially invite you to participate in this upcoming major conference and look forward to meeting you in Yokohama.
### Organizers / Committees

#### Organized by
The Iron and Steel Institute of Japan

#### Co-organized by
The Chinese Society for Metals
The Korean Institute of Metals and Materials
The Indian Institute of Metals

### Organizing Committee Members (In alphabetical order)

**Chairman**

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**Vice-Chairman**

Tadashi FURUHARA (Tohoku University)

**Chief Organizers**

Koji TAKATANI (Nippon Steel & Sumitomo Metal Corporation)
Akihide YOSHITAKE (JFE Steel Corporation)

**Committee Members**

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Hideki KAKIMOTO (Kobe Steel, Ltd.)
Yoshiaki KASHIWAYA (Kyoto University)
Nobusato KOJIMA (Nippon Steel & Sumitomo Metal Corporation)
Hiroyuki MATSUURA (The University of Tokyo)
Masaru MIYAKE (JFE Steel Corporation)
Yasuaki NAGATA (Nippon Steel & Sumitomo Metal Corporation)
Kenichiro NAITO (Nippon Steel & Sumitomo Metal Corporation)
Masayuki NISHIFUJI (Nippon Steel & Sumitomo Metal Corporation)
Taihei NOUCHI (JFE Steel Corporation)
Manabu OKU (Nisshin Steel Co., Ltd.)
Isao ONO (Tokyo Institute of Technology)
Takashi ORIMOTO (Nippon Steel & Sumitomo Metal Corporation)
Hiroki OTA (Kobe Steel, Ltd.)
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Akio SEGAWA (Kanazawa Institute of Technology)
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Yoshihiro TERADA (Tokyo Institute of Technology)
Toshihiro TSUCHIYAMA (Kyushu University)
Kaneaki TSUZAKI (Kyushu University)
Shigeki UEDA (Daido Steel Co., Ltd.)
Shigeru UEDA (Tohoku University)
Shinya WAKIMOTO (The Iron and Steel Institute of Japan)
Akira YANAGIDA (Tokyo Denki University)

### International Advisory Board

Chenguang BAI (Chongqing University, China)
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### Supporting Organizations (In alphabetical order)

The Chemical Society of Japan
The Japan Institute of Metals and Materials
The Japan Iron and Steel Federation
The Japan Research and Development Center for Metals (JRCM)
The Japan Society for Analytical Chemistry
The Japan Society for Heat Treatment
The Japan Society for Technology of Plasticity
Japan Society of Corrosion Engineering
The Japan Society of Mechanical Engineers
Japan Stainless Steel Association
Japan Welding Society
The Japanese Society for Neutron Science
Japanese Society of Steel Construction
Materials Science Society of Japan
The Mining and Materials Processing Institute of Japan
National Institute for Materials Science
Nippon Slag Association
Society of Automotive Engineers of Japan
The Society of Chemical Engineers, Japan
The Society of Instrument and Control Engineers
The Society of Materials Science, Japan
Special Steel Association of Japan
The Surface Finishing Society of Japan
The Technical Association of Refractories, Japan

4
Conference Outline

Date: October 5 – 8, 2015
Venue: PACIFICO YOKOHAMA (Annex)
Official Language: English

Topics

1) Fundamentals of High Temperature Processes
2) Ironmaking
3) Steelmaking
4) Casting and Solidification
5) Instrumentation, Control and System Engineering
6) Chemical and Physical Analysis
7) Forming Processing and Thermomechanical Treatment
8) Welding and Joining
9) Surface Treatment and Corrosion
10) Transformations and Microstructures
11) Mechanical Properties
12) Physical Properties
13) New Materials and Processes
14) Social and Environmental Engineering
15) Steel Products and Applications
Conference Outline / Topics / Lecturers

Lecturers

**Plenary Lecturers** (in alphabetical order)

- Kiyoshiba Mase (Toyota Motor Corporation, Japan)
- Sashi Shekhar Mohanty (Steel Authority of India, ltd., India)
- Hiroshi Tomono (Nippon Steel & Sumitomo Metal Corporation, Japan)
- Sung-Ho Park (POSCO Technical Research Laboratories, Korea)
- Xinhua Wang (University of Science and Technology Beijing, China)

**Keynote Lecturers** (in alphabetical order)

- Kuo-Chih Chou (University of Science and Technology Beijing, China)
- Han Dong (Central Iron & Steel Research Institute, China)
- Govind Sharan Gupta (Indian Institute of Science, India)
- Kimihisa Ito (Waseda University, Japan)
- Min Dong Joon (Yonsei University, Korea)
- Sung-Wook Jung (Research Institute of Industrial Science and Technology (RIST), Korea)
- Joon Hyun Lee (Pusan National University, Korea)
- Chong Soo Lee (POSTECH, GIFT, Korea)
- Kazuyo Matsubae (Tohoku University, Japan)
- Dipak Mazumdar (Indian Institute of Technology, India)
- Masato Ohnuma (Hokkaido University, Japan)
- Jong Jin Pak (Hanyang University, Korea)
- Elena Pereloma (University of Wollongong, Australia)
- Dierk Raabe (MPIE, Germany)
- Koji Saito (Nippon Steel & Sumitomo Metal Corporation, Japan)
- Setsuo Takaki (Kyushu University, Japan)
- Yang Tianjun (USTB, China)
- Kouji Tsumura (The University of Tokyo, Japan)
- Yoshiyuki Ueshima (Nippon Steel & Sumitomo Metal Corporation, R&D Laboratories, Japan)
- Hiroshi Utsunomiya (Osaka University, Japan)
- X. L. Wang (City University Hong Kong, China)
- Chunxia Zhang (Central Iron & Steel Research Institute, China)
## Schedule / Social Events

### Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
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</thead>
<tbody>
<tr>
<td>October 5th</td>
<td>Registration</td>
<td>Welcome Party</td>
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<tr>
<td>October 6th</td>
<td>Opening Plenary</td>
<td>Oral Presentations</td>
<td>Oral Presentations</td>
<td>Oral Presentations</td>
<td>Plant Tour</td>
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<tr>
<td>October 7th</td>
<td>Oral Presentations</td>
<td>Oral Presentations</td>
<td>Oral Presentations</td>
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<tr>
<td>October 8th</td>
<td>Oral Presentations</td>
<td>Oral Presentations</td>
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<td>October 9th</td>
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### Social Events

**Welcome Party**
- **Date:** Monday, October 5 / **Time:** 17:00-19:00
- **Venue:** PACIFICO YOKOHAMA (Annex F205+F206)

All registered participants and their accompanying persons are invited to attend the Welcome Party free of charge.
A light meal and drinks will be served.

**Banquet**
- **Date:** Wednesday, October 7 / **Time:** 18:00-20:00
- **Venue:** THE YOKOHAMA BAY HOTEL TOKYU (B2 floor, Queen's Grand Ballroom)

All registered participants and their accompanying persons are invited to attend the Banquet free of charge.
Call for Abstracts

Abstract Submission Deadline
Friday, January 30th, 2015

Manuscript (Full Paper) Submission Deadline
Tuesday, June 30th, 2015

Participants wishing to make a presentation on the results of their recent research are cordially invited to submit about 200 words abstract in English, by no later than January 30th 2015 via the online Asia Steel 2015 conference website.
Authors of accepted papers will be notified by e-mail by mid-April 2015, with information on the format and typing instructions for the manuscript (full paper).

Abstract Submission Instructions
Submission is only accepted via the online Asia Steel 2015 conference website.
No fax and e-mail submission are accepted.

Please fill in the online submission form and submit the abstract with up to 6 Keywords.
Abstract should be written not exceeding 200 words. You are requested to choose the Topics from the listed below that are most applicable to your abstract theme. After submission, you will receive an automatic submission number in return by e-mail when the submission succeeds.

1) Fundamentals of High Temperature Processes
2) Ironmaking
3) Steelmaking
4) Casting and Solidification
5) Instrumentation, Control and System Engineering
6) Chemical and Physical Analysis
7) Forming Processing and Thermomechanical Treatment
8) Welding and Joining
9) Surface Treatment and Corrosion
10) Transformations and Microstructures
11) Mechanical Properties
12) Physical Properties
13) New Materials and Processes
14) Social and Environmental Engineering
15) Steel Products and Applications

* Topics 7 to 11 are co-organized by ICASS.

Manuscript submission instruction will be notified on the website once ready.

Type of Presentation
Oral presentations only.
Registration / Accommodation

Registration

- Online Pre-registration Deadline (Early)  July 31st, 2015
- Online Pre-registration Deadline (Regular)  September 7th, 2015

Registration Fees

<table>
<thead>
<tr>
<th>Category</th>
<th>Early Registration</th>
<th>Regular Registration</th>
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<tr>
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<td>Before July 31st (Fri), 2015, 15:00 JST</td>
<td>After July 31st (Fri), 2015, 15:00 JST</td>
</tr>
<tr>
<td>Regular Participant</td>
<td>JPY 70,000</td>
<td>JPY 80,000</td>
</tr>
<tr>
<td>Student</td>
<td>JPY 30,000</td>
<td>JPY 40,000</td>
</tr>
<tr>
<td>Accompanying Person</td>
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<td>JPY 10,000</td>
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<tr>
<td>Documents for Visa acquisition</td>
<td></td>
<td>JPY 10,000</td>
</tr>
</tbody>
</table>

- All participants are subject to register online in advance or on-site at the registration desk at the venue.
- All presenters are required to register for Early registration in order to make a presentation and for the manuscript to be included in the Proceedings.
- To qualify for the Online Early Pre-registration, the application must be received by the Registration Office and payment completed by no later than July 31st (Fri), 2015, 15:00 JST.
- Students are requested to show their Student ID card at the onsite registration desk.

Entitlement

Registration fee for Regular Participant and Student include:
Session participation, Conference Kit, Welcome Party, Coffee Breaks, Banquet

Registration fee for Accompanying Person include:
Welcome Party, Coffee Breaks, Banquet

Payment Methods

After registering through this website, all payments must be made in Japanese yen by credit card or by bank transfer.
Registration / Accommodation

Credit Card

Payments are accepted only through VISA and Master Card. Payment will be made in a single lump-sum.

Bank Transfer

Bank information will be available on the website when the registration starts. Please remit by July 31st (Fri), 2015, 15:00 JST to qualify for early registration. Registrants are responsible for all bank transfer charges. Please input the 4-digit Registration Number when you are making the transfer.

Confirmation and Receipt

The Pre-Confirmation e-mail bearing you registration number and details will be sent to you after your online registration is complete. The Confirmation e-mail will be sent to you after the payment has been confirmed.

* If you do not receive a confirmation e-mail from the Registration Office within 1 month from the above indication, please email the Registration Office (asiasteel2015-reg@issjp.com).

* The confirmation e-mail should be retained and presented at the registration desk at the conference venue to receive your conference kit and receipt.

* Receipt of your payment will be issued on the day of the conference addressed to the applicant's name as registered.

* A request for changes in the registration details should reach the Registration Office (asiasteel2015-reg@issjp.com) by no later than Monday September 7th, 2015.

Cancellation and Refunds

Cancellation Policy: No refund after payment.

Accommodation

All participants are requested to book their accommodation in Yokohama by themselves. Asia Steel 2015 Organizing Committee or Secretariat Office will not arrange accommodation for the participants. Please enquire at your favorite online hotel-booking page or travel agency.

Reference information of hotel list and location map in easy access from the conference venue, "PACIFICO YOKOHAMA" are available from the link below:
http://www.pacifico.co.jp/english/services/accomodations.html

Please contact directly to the hotel you would like to stay at. Please note that the Organizing Committee or Secretariat Office has no special contract with these hotels and are not responsible for participants’ hotel reservation.
General Information

Passport and Visa
A valid passport is required to enter Japan. Participants from certain countries may be required to obtain a visa to enter Japan. Visa applications need to be made at least three months before the symposium. If you are uncertain about your requirements, please consult your nearest Japanese Embassy or Consulate, or visit the website of the Ministry of Foreign Affairs of Japan.

Climate and Clothing
During October, the average temperature in Yokohama is around 15-22°C (59-72°F).

Currency
Only Japanese Yen is acceptable at regular store and restaurants. Foreign currency or traveler's checks can be changed into Japanese yen (¥) at major banks, hotels, and airports.

Credit Cards
Credit cards are widely accepted. Commonly recognized cards include Visa, MasterCard, and American Express.

Tipping
There is no custom of tipping anywhere in Japan, even at hotels and restaurants. On certain occasions, however, a service charge is added to the bill.

Electrical Appliances
The voltage in Japan is 100 - 110 volts for electrical appliances. Electrical sockets usually accept only two-pronged (vertical) plugs.

Special Requirements
Please give details of any special diet or disability assistance required on your registration form.

Insurance
The organizer cannot accept responsibility for accidents which might occur. It is recommended that participants take out adequate medical, travel and personal insurance prior to the commencement of travel.

Contact (about the conference)
Asia Steel 2015 Secretariat
c/o ISS, INC.
Mita MT Bldg. 8F, 3-13-12 Mita, Minato-ku, Tokyo, 108-0073 Japan
TEL: +81-3-6369-9984
FAX: +81-3-3453-1180
E-mail: asiasteel2015@issjp.com
**Access**

Access from the nearest stations

3-minute walk from Minato Mirai Station (Minato Mirai Line)
Go out "Queen's Square Exit" and walk leftward to take the long red escalator and the front escalator to the 2nd floor. Turn left and walk through Queen's Square.

From Sakuragicho Station (JR or Subway): 12-minute walk, 7 minutes by bus or 5 minutes by taxi
Go out the ticket gate and walk leftward to take the moving walkway. Walk through Landmark Plaza and Queen's Square.
Take Municipal Bus from Sakuragicho Station Bus Terminal No. 4 to Convention Hall or PACIFICO Yokohama.

Access by air

**From Haneda Airport:**
- 20 minutes by car
- 40 minutes by bus
  - Take an Airport Limousine Bus direct to PACIFICO Yokohama
  - or
  - Take an Airport Limousine Bus for YCAT. Then change to Minato Mirai Line or take a taxi.
- 30 minutes by train
  - Take the Keihin Kyuko Express (for Zushi) and get off at Yokohama Station. Then change to Minato Mirai Line.

**From Narita Airport:**
- 90 minutes by bus
- Take an Airport Limousine Bus direct to PACIFICO Yokohama
- 100 minutes by train
  - Take the JR Narita Express to Yokohama. Change to Minato Mirai Line.