

2nd Announcement and Call for Papers

The 9th International Symposium on Electromagnetic Processing of Materials



Date: **October 14-18, 2018**

Venue: **Awaji Yumebutai International Conference Center, Hyogo, Japan**

<http://www.epm2018.org/>

Organized by The Iron and Steel Institute of Japan EPM2018 Organizing Committee

Theme

The Past Quarter Century and the Next Decade

Welcome Message

Welcome to the 9th EPM conference

Electromagnetic Processing of Materials (EPM) has been widely applied for improving properties of materials and it is also expected to be extended to various materials processes due to unique advantages of electromagnetic interactions. This symposium is traditionally open for any kind of materials processing involving electric and / or magnetic fields. It brings together leading academics, researchers and engineers from industry, and commercial software developers.

The series of EPM symposiums was initiated in 1994 by Prof. S. Asai (Japan) and Prof. M. Garnier (France). It takes place every three years alternating between Europe and Asia (Nagoya 1994, Paris 1997, Nagoya 2000, Lyon 2003, Sendai 2006, Dresden 2009, Beijing 2012, Cannes 2015). The 9th EPM symposium will be held at Awaji Yumebutai international conference center (Awaji Island, Hyogo, Japan), which has easy access from Kansai international airport, Shin-Kobe station (super-express trains), downtown of Kobe (20 km), Osaka (40 km) and Kyoto (70 km).

We look forward to welcoming you in Awaji Island, Hyogo, Japan.

The EPM2018 Organizing Committee

Important Dates

Abstract Submission Open	December 1, 2017	Notification of Acceptance	March 2, 2018
Abstract Submission Deadline	January 30, 2018	Closing Early Bird Registration	May 1, 2018
Online Registration Open	February 15, 2018	Closing Full Paper Submission	June 1, 2018

Program Schedule (Tentative)

October 14 Sunday	October 15 Monday	October 16 Tuesday	October 17 Wednesday	October 18 Thursday
Registration Welcome Party	Conference	Conference	Conference Banquet	Conference Excursion

Supported by

Associazione Italiana di Metallurgia, Italy
Cryogenics and Superconductivity Society of Japan
Japan Foundry Engineering Society
Japan Society of Energy and Resources
Societe Francaise de Metallurgie et de Materiaux, France
The Ceramic Society of Japan
The Chemical Society of Japan
The Institute of Electrical Engineers of Japan
The Japan Institute of Light Metals
The Japan Institute of Metals and Materials

The Japan Iron and Steel Federation
The Japan Research and Development Center for Metals
The Japan Society for Technology of Plasticity
The Japan Society for the Promotion of Science
19th Committee on Steelmaking
The Japan Society of Applied Physics
The Japan Society of Mechanical Engineers
The Magnetics Society of Japan
The Magneto-Science Society of Japan
The Mining and Materials Processing Institute of Japan

Call for Papers

The Organizing Committee of EPM2018 is pleased to invite the submission of scientific papers.

Topics

1. Fundamental of EPM, MHD, theory & modeling
2. Induction heating, plasma processing & related heat treatment
3. Electromagnetic melting,
 - a. Cold crucible, VIM, VAR, ...
 - b. Particle removal / addition: stirring, braking, vibration,...
4. EM shaping or forming, mixing, magnetic or EM levitation
5. Liquid metal processing: steel, aluminium, titanium, copper, magnesium...
6. Solidification, crystal growth under external fields, EM casting,...
7. Advanced materials processing in static or alternating magnetic field
8. Other processes under external fields, electrochemistry, magnetic, electric, electrostatic, microwaves,...
9. Measuring techniques in liquid metal flows and nondestructive control/wireless energy transfer (by induction)
10. Equipment for EPM, EM pumps, EM brakes, EM stirrers, power sources,...
11. Low electrical conductivity liquid processing, oxides, glasses, electrolytes ...
12. Recycling by EM / Magnetic processes

Submission Guidelines

- All abstracts and full papers should be submitted online via EPM2018 website.
- All abstracts and full papers should be follow the templates provided on EPM2018 website.
- Abstracts and full papers will be accepted in English only.
- All abstracts will undergo peer review by the Organizing Committee and may be accepted for oral presentation, poster presentation, or rejected.
- Presenting authors of accepted abstract are required to complete registration and payment by May 1, 2018.

Contact

EPM2018 Paper Submission Office
Email: epm2018@jtbc.com.co.jp

Registration

Online registration will start on February 15, 2018 on EPM2018 website. Please refer the website for the details.

Registration Fee & Category

Category	Early Bird Registration until May 1, 2018	Late & On-site Registration from May 2, 2018
Standard Delegate	100,000 (JPY)	110,000 (JPY)
Student	50,000 (JPY)	60,000 (JPY)
Accompanying Person	35,000 (JPY)	

Contact

EPM2018 Registration Office
Email: epm2018-reg@jtbc.com.co.jp

Accommodation

Online accommodation reservation will start in July, 2018 on EPM2018 website. Please refer the website for the details.

Contact

JTB Western Japan Corp., MICE Division EPM2018 DESK
TEL: +81-6-6260-5044 FAX: +81-6-7657-8412 Office Hours: 9:30-17:30 (weekdays only) Email: westec_op3@west.jtb.jp

Excursion



◀Naruto Whirlpool cruise

The whirling tides of Naruto strait roughly happen every 6 hours due to the ebb and the narrow strait. When the tide flows from the high sea to the low sea, it becomes a rolling rapid where the speed of the tidal current is 30 km per hour, and the size of the whirlpool is so large that its diameter sometimes touches 30 m. The sightseeing ship which departs every day at fixed times is typical of Awaji Island tourism. On a ship, you can see these dynamic whirlpools closely.

Awaji Yumebutai Greenhouse and Kiseki no Hoshi Greenhouse▶

This greenhouse covers an area 6700 m² and one of the largest flower gardens in Japan. You can enjoy various flowers which bloom all year round.



Plenary Lecturer

to be Announced

International Advisory board

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Kazuyuki Ueno	Iwate University
Kazumi Yamamoto	Daido Steel
Noboru Yoshikawa	Tohoku University

Conference Venue

EPM2018 will be held at Awaji Yumebutai International Conference Center in Awaji, Hyogo.



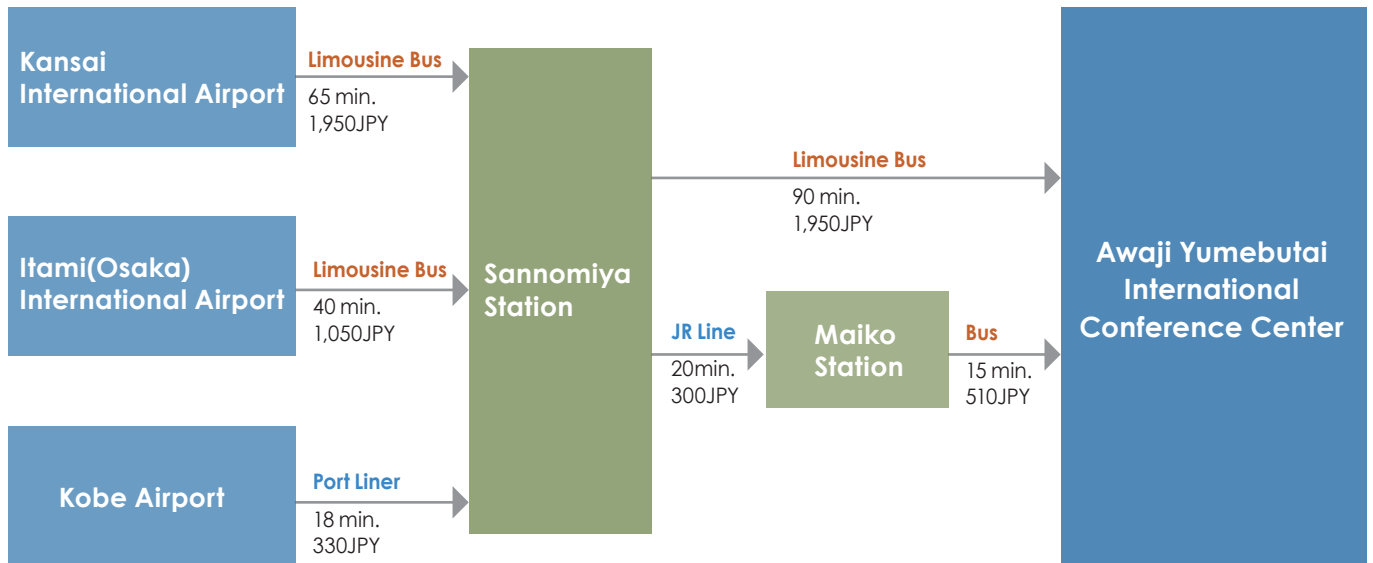
Address

Awaji Yumebutai International Conference Center
1 Yumebutai, Awaji City, Hyogo 656-2306 Japan

Area Map



Access Map



From Kansai International Airport to Sannomiya Station

Connection Guide: http://www.yumebutai.org/english/access/detail/info_kanku-san.html

Time Table: http://www.yumebutai.org/english/access/detail/time_kanku-san.html

From Itami (Osaka) International Airport to Sannomiya Station

Connection Guide and Time Table: http://www.okkbus.co.jp/en/timetable/itm/t_kob.html

From Kobe Airport to Sannomiya Station

Connection Guide: http://www.yumebutai.org/english/access/detail/info_kobear2007_03_16.html

Time Table: http://www.yumebutai.org/english/access/detail/time_kobear2007_03_16.html

From Sannomiya Station to Awaji Yumebutai International Conference Center

Connection Guide: http://www.yumebutai.org/english/access/detail/info_san.html

Time Table: http://www.yumebutai.org/english/access/detail/time_san.html

For details on the timetable and connection guide, please view the following website.

<http://www.yumebutai.org/english/access/access.html>