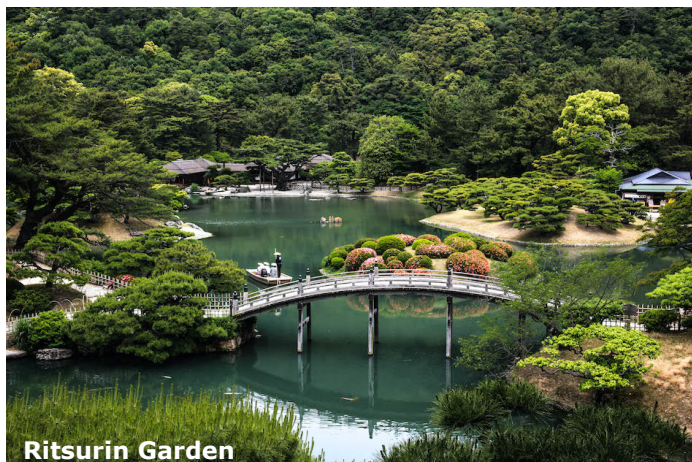


ISHOC-2022

International Symposium on High-temperature
Oxidation and Corrosion 2022

16-21 October 2022
Takamatsu, Kagawa, Japan



Ritsurin Garden

- FIRST CIRCULAR -

About ISHOC-2022

Welcome to ISHOC-2022. The ISHOC-2022 is a symposium where novel findings and theories on high-temperature oxidation and corrosion will be presented. The symposium follows the previous five symposia held in Japan;

2000 in Rusutsu, Hokkaido
2005 in Nara, Nara
2010 in Zushi, Kanagawa
2014 in Hakodate, Hokkaido
2018 in Matsue, Shimane

Scope

The ISHOC-2022 symposium aims to exchange and discuss the current research and latest scientific knowledge on high-temperature materials and their degradation by corrosion and oxidation. Another important aspect of this symposium is to keep our networks and collaborations, especially after we went through difficult times due to the COVID-19 pandemic.

As increasing alarm over the current energy crisis of fossil fuels has generated a strong demand of renewable alternatives to CO₂ mitigation, we are facing large transition to energy production to achieve a low-carbon society. Thus, exchanging opinion toward the future direction in this filed is an important purpose in this symposium.

In addition to the traditional focus areas of coatings and environmental effects, we also invite papers that highlight alloy design for high-temperature materials that contribute to balancing the oxidation/corrosion resistance and mechanical performance. Other important topics for ISHOC-2022 include;

Topics

1. Oxidation/corrosion in renewable energy production environments
2. Alloy design to balance high temperature oxidation/corrosion and mechanical performances
3. Oxidation/corrosion induced degradation of mechanical performance
4. Fundamental
 - a. Initial oxidation, transient oxidation
 - b. Water vapor
 - c. Deposit induced corrosion
 - d. Stress generation, spallation and mechanical properties of oxide scale
 - e. Corrosion in complex gas atmospheres (SO₂, CO₂, HCl, H₂S...)
 - f. Advanced characterization
 - g. Modeling, lifetime prediction
5. Oxidation/corrosion of ceramics and composite
6. Oxidation/corrosion during materials process

Organizing Committee

Chairman

Prof. Shigenari HAYASHI (Hokkaido University)

Head of Local Organizing Committee

Prof. Hideyuki MURAKAMI (NIMS, Waseda University)

Vice Chairmen

Prof. Makoto NANKO (Nagaoka University of Technology)

Prof. Mitsutoshi UEDA (Tokyo Institute of Technology)

Organizer

The Iron and Steel Institute of Japan (ISIJ)

Registration and Fees

Registration will be made through the symposium website. Registration fees (tentative) are:

	Before 30 Sep. 2022	After 1 Oct. 2022
Regular participant	70,000	80,000
Japanese industry	90,000	100,000
Student	35,000	40,000

(Japanese YEN including TAX)

Fees include registration of the symposium, welcome reception, excursion, banquet, lunch and tea/coffee.

Important Dates

10 January	2022	abstract submission
31 March	2022	deadline of the submission
20 May	2022	notification of acceptance
01 June	2022	start of registration
16 October	2022	start of symposium

Symposium Website

<http://www.mkg.mtl.titech.ac.jp/ISHOC22/index.html>

Symposium Secretariat

Prof. Michihisa FUKUMOTO (Akita University)

E-mail: fukumoto@gipc.akita-u.ac.jp

Welcome to TAKAMATSU, 16-21, October, 2022

About Takamatsu and Kagawa

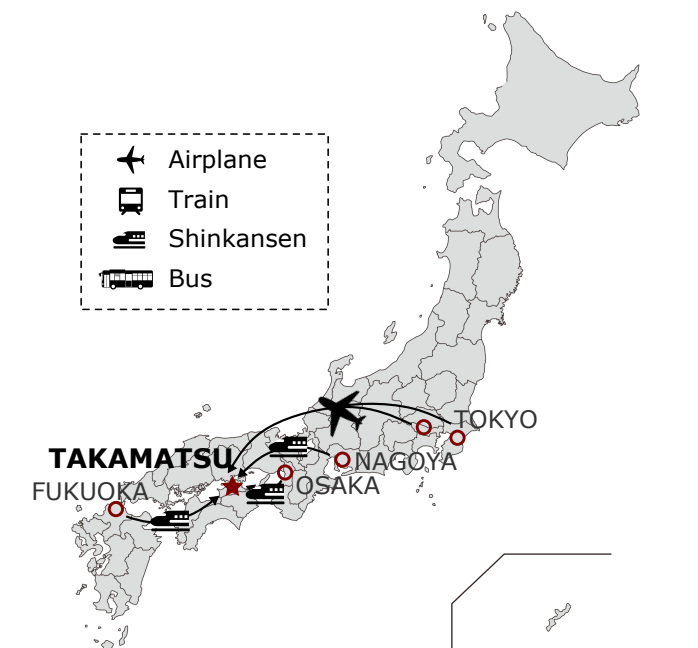
Takamatsu city is the capital of Kagawa prefecture located in the northeast of Shikoku which is one of the four main islands in Japan. Takamatsu, a 16th century castle town, is well known for its Takamatsu castle which is counted amongst Japan's top 100 famous castles. The beauty of archipelago in the Seto Inland Sea, with its lush pine forests, sandy beaches, and mostly calm waters, can be admired from the observation deck of Takamatsu castle. The local train "KOTODEN" which is recommended for you visiting Takamatsu for the first time, takes you around to famous sightseeing spots such as Ritsurin Garden.



Kagawa prefecture, also nicknamed "Udon Prefecture" is best known for its Sanuki-Udon. As the first place in Japan to successfully cultivate olives, Shodo island in Kagawa is famous for olive production. You can buy many products such as foods, oils and cosmetics made from olives.

Venue and Access

The symposium venue is " Kagawa International Conference Hall" (Takamatsu Symbol Tower) which is a 3-minute walk from the Takamatsu Station. Takamatsu city is easily accessible by airplane from Tokyo and by JR (Japan Railway) from Osaka, Nagoya and Fukuoka. There are also some international flights from Seoul, Shanghai, Taipei and Hong Kong.



TOKYO	Haneda Airport	Airplane	1h20min	Takamatsu Airport	Bus	40min	Takamatsu (JR)			
NAGOYA	Centrair Airport	Train	40min	Nagoya (JR)	Shinkansen	1h40min	Takamatsu (JR)			
OSAKA	Kansai Airport	Train	50min	Shin-Osaka (JR)	Shinkansen	50min	Okayama (JR)	Train	1h	Takamatsu (JR)
FUKUOKA	Fukuoka Airport	Train	10min	Hakata (JR)	Shinkansen	1h50min	Takamatsu (JR)			



Kagawa is the smallest prefecture in Japan and faces the Seto Inland Sea. Seto Ohashi Bridge is a series of double deck bridges connecting Kagawa and Okayama prefectures across small islands in the Seto Inland Sea. Naoshima, an art island that borders Takamatsu city, is home to the number of museums, galleries and contemporary artworks. Marine taxi is the best way to visit this island.

Further information about Takamatsu and Kagawa can be found at;

<https://www.art-takamatsu.com/en/?lang=save>
<https://www.my-kagawa.jp/en>

