



## Second announcement

*International Workshop on Environmental Engineering 2019 (IWEE2019)  
June 25-28, 2019, Okinawa, Japan*



### Welcome address

We cordially invite you to participate in the International Workshop on Environmental Engineering 2019 (IWEE2019) that will be held in Okinawa, Japan, on June 25-28, 2019. The conference will be hosted at the Bankoku Shinryokan Resort MICE Facility. The 2019 Symposium on Environmental Engineering (2019SEE) will be held concurrently at the same time and place. The events are organized by the Environmental Engineering Division of the Japan Society of Mechanical Engineers (JSME).

In this conference, we will facilitate not only the debate and dissemination of information regarding the effort and research development into various environmental problems around the world, but also the discussion regarding sustainable city formation and the trend of regulations and standards in the future. Furthermore, awards for the oral presentations in the IWEE2019 and 2019SEE for young researchers and for the poster presentations in the IWEE2019 for students will be given after careful consideration. We look forward to your active participation.

Owing to the beauty of its location, the island of Okinawa is the ideal meeting point for the people of the G8 Summit. Surrounded by a coral reef, it will fill you with a wonder for nature, as well as offer excellent traditional art and cuisine with a renowned warmth and hospitality.

On June 25, we look forward to welcoming you to a Technical Tour in the afternoon and the Welcome Reception in the evening, the Opening Ceremony on June 26, a banquet at Bankoku Shinryokan on June 27, and an excursion to Okinawa Churaumi Aquarium with lunch in a traditional Okinawa house in the afternoon of June 28.

Details are online:

<http://www.jsme.or.jp/env/iwee/2019/>

### IWEE Venue

Bankoku Shinryokan Resort MICE Facility (1792 Kise, Nago City, Okinawa) is located 20 minutes from downtown Nago City by car. Bankoku Shinryokan is known for being the venue of the G8 Summit in Okinawa held in 2000. In an elegant venue such as this, highly praised by various nations' leaders, we are confident that this conference will be a memorable experience. The sunset view from the Summit Hall, the venue for our Banquet, is particularly wonderful. You will enjoy the verdant and abundant nature that Okinawa offers together with the view from the courtyard of the sparkling emerald green sea. Furthermore, the venue boasts the beautiful Busena Beach, an underwater observatory, and a facility in which one can experience a glass-bottom boat, just a few minutes' walk



Bird's eye view of the Bankoku Shinryokan Resort MICE Facility and the Busena peninsula



IWEE venue: Entrance of the Bankoku Shinryokan Resort MICE Facility  
<http://www.shinryokan.com/index.jsp>

from the IWEE venue. We hope you will enjoy these facilities during the IWEE.

### Important dates

December 3, 2018	Presentation submission & registration opens
February 1, 2019	Presentation submission deadline
March 1, 2019	Notification to authors
April 15, 2019	Early-bird registration deadline
April 15, 2019	Contributed paper submission deadline
June 15, 2019	Late registration deadline

### Topics

#### 1. Noise and vibration control technology

- (1) Test and analysis technique of noise and vibration
- (2) Improvement technology of noise and vibration
- (3) Evaluation and improvement of sound quality
- (4) Evaluation and improvement technology of low-frequency sound

#### 2. Recycling and waste treatment technology

- (1) Recycling waste treatment technology
  - (2) Resource recovery and recycling
  - (3) Incineration and melting technology
  - (4) Treatment technology of stabilization and detoxification
  - (5) Waste power generation and biomass power generation, heat utilization technology
  - (6) Environmental management and method
- 【OS1】 Global prospects and issues of IoT and AI technologies in the field of waste management
- 【OS2】 Current efforts and future challenges of sustainable technologies and systems
- 【OS3】 Utilization of biomass resources and its future prospects
- 【OS4】 Technology development and standardization of solid biomass energy Part I
- 【OS5】 Technology development and standardization of solid biomass energy Part II

#### 3. Technology for the conservation of air and water

- (1) Technology for the conservation of air environments
- (2) Technology for the conservation of water environments
- (3) Evaluation technology of air and water environments
- (4) Numerical simulation of air and water environments

#### 4. Environmentally friendly energy technology

- (1) Energy conservation
- (2) Renewable energy
- (3) Effective utilization of energy
- (4) Energy storage
- (5) Technologies related to the environment in the energy sector
- (6) Numerical simulation for environment

#### 5. Cross-sectional topics

- (1) Advanced sustainable city
  - (2) Future standards and regulations
  - (3) Topics in conjunction with environmental engineering
- \*If you choose session No.5, the organizing committee will decide a suitable section among No.1-4.

### Plenary speakers

Tsumoru Shintake (Okinawa Institute of Science and Technology Graduate University (OIST), Japan) (Open Forum)

Yong-chan Kim (Korea University, Korea)

Ali bin Selamat (Malaysia-Japan International Institute of Technology (MJIT), Malaysia)



The Summit Hall for the plenary, parallel sessions, the poster session and the banquet



Traditional Okinawa dances will be performed at the banquet



Okinawan-style stewed pork cube "Rafti" and traditional distilled liquor "Awamori" with traditional instrument "San-shin"



The underwater observatory, glass-bottom boat, and Busena beach are located near the IWEE venue.

<http://www.busena-marinepark.com/english/index.html>

<https://www.oki-islandguide.com/attractions/busena-beach-the-busena-terrace>



**Invited speakers** (Tentative)

Jintawat Chaichanawong (Thai-Nichi Institute of Technology, Thailand)  
 Moo Been Chang (National Central University; Taiwan)  
 Chaobin Dang (The University of Tokyo, Japan)  
 James S. Cotton (McMaster University, Canada)  
 Nito A. Debacher (Federal University of Santa Catarina, Brasil)  
 DiNicola (Marche Polytechnic University, Italy)  
 Heckt (Technical University Berlin, Germany)  
 Yukihiro Higashi (Kyushu University, Japan)  
 Jongsoo JEONG (Waseda University, Japan)  
 Myonhong Lee (Korea Maritime & Ocean University, Korea)  
 Jie Li (Dalian University of Technology, China)  
 Bidyut Baran Saha (Kyushu University, Japan)  
 Keping Yan (Hangzhou University, China)

**Committees**

**International Scientific Committee**  
 (TBD)

**Local Organizing Committee**

Takehiko Sato, Chair	Mai Ogura
Yasushi Takano, Vice Chair	Tomoyuki Katayama
Satoshi Uehara, Secretary	Kuniko Urashima
Masaaki Yamazato	Keisuke Sekiguchi
Masanori Watanabe	Tetsuya Wakui
Hiromitsu Hamakawa	

**Schedule of IWEE/SEE**

The tentative schedule is as follows. Please note this schedule has not been finalized.

Outline of schedule (Tentative)

Time	June 25	June 26	June 27	June 28
9:00		Opening ceremony Plenary Lecture Oral Sessions	Plenary Lecture Oral Sessions	Plenary Lecture (TBD) Oral Sessions Awards ceremony Closing ceremony
12:00		Lunch	Lunch	
13:00	Technical tour/ Welcome reception	Oral Sessions	Poster Session Organized session /Plenary (TBD)	Excursion
18:00			Banquet	
19:00				

**Call for papers**

The website for submitting presentations will open on December 3, 2018. In the submission, please include the authors' details, the name of the speaker, the title, a 100-word abstract, and the session number, and submit by February 1, 2019. After being notified of your acceptance, please submit the contributed A4 paper of 1-2 pages in English by April 15, 2019. The paper template can be downloaded from the website. The notification of acceptance will be sent to the applicant by March 1, 2019. If you do not receive any notification, please contact the IWEE/SEE office. As a general rule, presentations are delivered using the presenter's own computer. If the presenter needs to borrow a computer, please check the "need PC" box on the submission screen. If you are in need of a Japanese visa, please check the box entitled "visa". If you are not delivering a presentation, please complete an early-bird registration and check the "visa" box on the registration screen. Because it is a time-consuming process, please let us know your request for a



Campus of OIST (Technical Tour)



Orion beer factory (Technical Tour)



The Welcome Reception & Registration will take place in the Orion Happy Park (Technical Tour)



Lunch at an old Okinawa-style house (Excursion)  
<http://ufuya.com/en/>



Okinawa Churaumi Aquarium (Excursion)  
<https://churaumi.okinawa/en/haisai/>

Japanese visa by February 1, 2019.

### Awards

The IWEE2019 Best Poster Presentation Award for students will be presented in the award ceremony on June 28, 2019. Please note that, as a general rule, eligibility for the award is dependent on your attendance at the award ceremony. We look forward to your active participation. Certificates of Merit for Best Young Presenter will be chosen from among the oral presentations in IWEE2019 and 2019SEE for young JSME member researchers who are 35 years old or younger. Certificates will be awarded at the 2020SEE.

### Presentations

Plenary lectures are 50 minutes long, including a 10 minute Q&A. Talks presented by invited speakers are 30 minutes long, including a 5 minute Q&A. Oral presentations are 15 minutes long, including a 5 minute Q&A. Please bring your personal computer and/or a USB that is necessary for your presentation. Poster presentations include a short presentation and an explanation of the poster (Portrait A0 size).

### Publications

The contributed papers will be distributed to conference participants as the Proceedings of the IWEE. Electronic versions of the contributed papers can be downloaded from the conference website after June 25, 2019. Please visit the IWEE2019 website for details.

### Registration

Registration fees for IWEE (JPY)

Delegate type	Early-bird Registration on/before April 15, 2019	Late Registration from April 16 to June 15, 2019	On site Registration
Regular	40,000	50,000	60,000
Student	20,000	25,000	30,000
Accompanying person	15,000	18,000	23,000

Registration will open on December 3, 2018. All presenters are required to meet the early-bird registration deadline and complete payment by April 15. Please note that your presentation will be canceled if you do not register by this time. Registration fees include access to the Technical Tour, the banquet, the excursion, shuttle buses, and lunchboxes. Plenary and invited speakers are requested to check “invited speakers” button on the registration screen before proceeding. Registration fees are non-refundable. Please see the IWEE website for payment method details and the cancellation policy.

Accompanying persons can be registered on the personal site of each registered participant. They may join the Technical Tour, the banquet, and excursion and make use of the shuttle buses. They may also attend the IWEE/SEE presentations and purchase the Proceedings of IWEE/SEE. Lunch is not included. However, we will sell individual lunchboxes at 1,500 JPY each. Therefore, please specify the dates (26th or 27th) and the number of lunchboxes you will need. Children aged 12 years or younger (up to elementary school) may also join the events and utilize the shuttle buses and venue at no additional cost. Children between the age of 13 and 18 (junior high school and high school) may also take part in the events and utilize the shuttle buses and venue at an extra fee of 5,000 JPY per person. If the children are aged 19 or older, please register them as an accompanying person. Please include their names upon registration.

### Transportation

#### (1) Shuttle bus for participants (Tentative)

**From Naha Airport to Nago City:** We will arrange for a shuttle bus from Naha Airport to Nago City that will leave at 17:00 on June 25. The



Wonderful views of the coral reef and its colorful fishes



A traditional Okinawa Lion-shaped statue placed on the roof of a house as an amulet



Okinawa's traditional drum dance "Azer"



Map of the main island of Okinawa



participants of the Technical Tour will start from the Naha Airport at 12:30, and arrive in Nago City after the Technical Tour and the Welcome Reception. Both buses stop at the designated hotels.

Between Nago City and the IWEE Venue: We will arrange for shuttle buses on June 26 (in the morning and evening), June 27 (in the morning and after the banquet), June 28 (in the morning and after the closing ceremony). All the buses stop at the designated hotels and Nago City (TBC).

From the IWEE Venue to Naha Airport: We will arrange for a shuttle bus from the IWEE Venue to Naha Airport leaving at 13:00.

From the IWEE Venue to Nago City: Please use the shuttle bus for this excursion.

## (2) Other transport options

**Public transportation:** It takes about 1 hour and 45 minutes from Naha Airport to Nago City by public expressway bus. There are also city buses from Nago City to the IWEE venue (the frequency of service is once or twice per hour.). However, it is only a short journey of about 10 minutes on foot from the bus stop to the IWEE venue. Please see the following websites:

Okinawa bus service: <http://okinawabus.com/en/>

Okinawa-kotsu: <http://www.kotsu-okinawa.org/en/index.html>

If you take a taxi, it will take about 20 minutes to reach Nago City from the IWEE venue (depending on the state of traffic at the time). If you use a rental car, please park it in one of the available parking slots at the IWEE venue.

## Accommodation

The following hotels can be booked from the Registration/Submission site. Shuttle buses will stop at these hotels:

In downtown Nago City

1. Hotel Yugaf Inn Okinawa (from 10,000 JPY).
2. Hotel Route-Inn Nago (from 7,000 JPY).

In the vicinity of the IWEE venue

3. Okinawa Suncoast Hotel - ~2 km from the IWEE venue (from 14,000 JPY)
4. The Busena Terrace - located next to the IWEE venue, Bankoku Shinryokan Resort MICE Facility (from 36,000 JPY). Please note that the shuttle bus will only stop here on 25 June.

The above prices are for single rooms. However, for rooms in which two or more people share, for example, a twin or triple room, hotel charges will be reduced. Please check prices at the time of reservation.

There are other hotels available in Nago City and in areas surrounding the IWEE venue, but the transportation service is only available from the hotels mentioned above.

## Social events

The Technical Tour will start from Naha Airport at 12:30 on June 25. Participants will visit OIST (Okinawa Institute of Science and Technology), acclaimed worldwide for sustainable environment design, followed by a visit to the Orion Beer Factory in Nago City where the Welcome Reception will be held. We will also conduct the registration process during the reception.

OIST: <https://www.oist.jp/>

Orion beer factory: <https://www.orionbeer.co.jp/en/>

The banquet will be held on June 27 at the IWEE venue. We would like for you to enjoy the elegant Summit Hall, the view of the scenery and sunset from the courtyard, and the traditional art of Okinawa.

The excursion will be held on June 28 after the Closing ceremony. Starting from the IWEE venue and passing by each hotel, we will have lunch at Ufuya (an old Japanese-style house restaurant) in Nago, and visit the Churaumi Aquarium and its backyard. The backyard tour allows a maximum number of participants (about 100 people), so we will only accept participants' applications on a first-come-first-serve basis.

We would like to check the number of participants for each event. So please check the boxes of the events you would like to participate in when you apply. Please note that if you do not apply, you will not be able to



Kouri island and Kouri bridge  
<https://www.kouri-oceantower.com/kouri-island/>



Nakijin Castle Ruins  
<http://nakijinjoseki.jp/en/>



Canoeing in the mangrove forest in "Yanbaru Forest" in the northern part of Okinawa  
<https://www.yanbaru-club.com/>



The big tree of banyan "Gajumaru" in the Daiseikirizan  
<http://www.sekirizan.com/en/>



Daiseikirizan, located in Yanbaru National Park  
<http://www.sekirizan.com/en/>

participate in the events.

### **Exhibitions & Advertisements**

We can prepare up to 11 exhibition booths (booth structure: a desk of 180 cm in width × 60 cm in depth & back panel of 210 cm in height) in the Summit Hall and advertisement spaces in the proceedings. Please contact us for details.

### **Facilities of the venue**

Free Wi-Fi is available in the venue. Smoking in the venue is strictly prohibited except in the dedicated smoking area outside the buildings. The café terrace is free for participants on June 26 and 27.

### **Sightseeing around Nago City**

As Okinawa is filled with an abundance of nature and traditional culture, there are many sightseeing spots around Nago City such as the Nago city beach, Kouri island and Kouri bridge (photo), the Nakijin castle ruins (photo), Yanbaru Forest (photo), and Okinawa Fruits Land.

### **Optional tours**

Optional tours will be arranged. Please see the website for details.

### **Sponsor**

The IWEE2019 and 2019SEE are partly supported by the Okinawa Convention & Visitors Bureau (OCVB).

### **Supporting societies**

Japan Society of Energy and Resources/The Society of Chemical Engineers, Japan/Society of Environmental Science, Japan/The Resources Processing Society of Japan/The Society of Heating, Air-Conditioning and Sanitary Engineers of Japan/The Society of Polymer Science, Japan/Japan Environmental Management Association for Industry/The Mining and Materials Processing Institute of Japan/Society of Automotive Engineers of Japan, Inc. Japanese Geotechnical Society/The Institute of Electrostatics Japan/Japan Waste Management Association/Japan Society for Atmospheric Environment/The Institute of Electronics, Information and Communication Engineers/Japan Society of Civil Engineers/The Japan Institute of Energy/Japan Ozone Association/Acoustical Society of Japan/The Chemical Society of Japan/Japan Environmental Facilities Manufactures Association/Japan Environmental Sanitation Center/Japan Air Cleaning Association/Architectural Institute of Japan/The Japanese Society for Multiphase Flow/The Japan Society of Industrial Machinery Manufacturers/Japan Industrial Waste Information Center/Japan Water Works Association/The Ceramic Society of Japan/Institute of Noise Control Engineering of Japan/Japan Solar Energy Society/The Iron and Steel Institute of Japan/Japanese Society of Soil Science and Plant Nutrition/Combustion Society of Japan/Heat Island Institute International/The Japan Society for Analytical Chemistry/Japan Society on Water Environment/The Society for Risk Analysis Japan/Japan Society of Refrigerating and Air Conditioning Engineers/Japan Waste Research Foundation/Japan Society of Material Cycles and Waste Management/The Society of Powder Technology, Japan/Smart Sound Design Society

### **Contact**

Please contact us if you have any questions or comments.

IWEE2019 & 2019SEE office:

email: env-symp2019\_admin@jsme.or.jp

Address: The Japan Society of Mechanical Engineers, Environmental Engineering Division,  
Shinanomachi-Rengakan Bldg, Shinanomachi 35, Shinjuku-ku Tokyo 160-0016 Japan  
<https://www.jsme.or.jp/env/eng/index.shtml>



Scuba diving in a cave