

Welcome to ISBA22

**Kurushima channel bridge,
at Shimanami kaido
(Hiroshima-Ehime, Japan)**



ISBA22 :The 5th International School on Beam Dynamics and Accelerator Technology

Nov. 21. – 29.

Gateway to Accelerator Sciences for young researchers and graduate students in Asia.

- Accelerator Development,
- Scientific study with Accelerator.



KEK-IINAS
5th International School on Beam Dynamics and Accelerator Technology (ISBA22)

21-29 November 2022
Submission Deadline: 15th August (Monday)
School style : In person
Venue : Hiroshima International Plaza (<https://hiroshima-hip.or.jp/en/>)

Basic course (common) : Foundation of accelerator and accelerator sciences, beam dynamics, basics of accelerator technology, and applications.
**Advanced course (select) : A) Advanced accelerator technology.
B) AI for accelerator and accelerator science**

Hosted by Hiroshima University.
Supported by IINAS-NX by MEXT, Japan, KEK, and Particle Accelerator Society of Japan
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URL: <https://conference-indico.kek.jp/event/186/overview>

ISBA international organization committee
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Takamitsu Otsuka (Utsunomiya U., Japan)
Kazuyuki Sakaue (U of Tokyo, Japan)



<https://conference-indico.kek.jp/indico/event/186/>

ISBA22 is a school in person

- All lecturers are on site with very few exceptions.
- Hands-on training for accelerator simulation (ELEGANT).
The presentation in a summary session is on the last day.
- Student sessions.
- A couple of advanced lecture sessions:
 - Nov. 27 : Machine learning in accelerator science.
 - Nov. 28 : Advanced acceleration technique.
- Excursion on 25 (Fri.) + Jap. traditional dance performance.
- Reception on 21 (Mon.)
- Celebration on 29(Tue.)



Fukuoka

Hiroshima

Osaka

Tokyo

Hiroshima University

- It is a national University located in Higashihiroshima City, in the Saijo Basin at an elevation of 250 meters.
- 15000 students.
- Literature, Economics, Law, Sociology, Education, Medical, Medicine, Dentistry, Agriculture, Technology, International Development, and Science.
- Five research groups for accelerator sciences;
 - Accelerator physics group
 - Beam physics group
 - Light source group
 - High energy physics group
 - Quark physics group

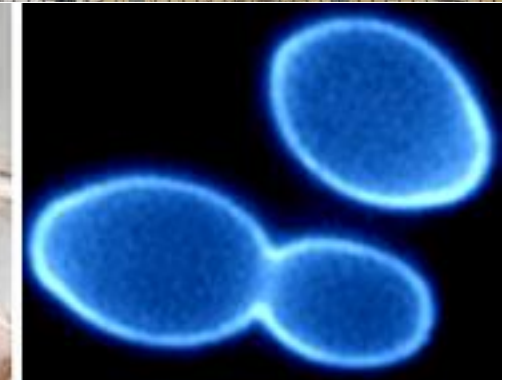
Hands-on Training

- Hands-on training is an accelerator design with ELEGANT code by LANL, US.
- The training is performed by teams (4 students).
- On the last day, the result is presented.
- The presentation is graded by lecturers. Based on the grading, we award the top three teams.
- Award winners will receive certificates and prizes.



Higashiroshima (Saijo Town)

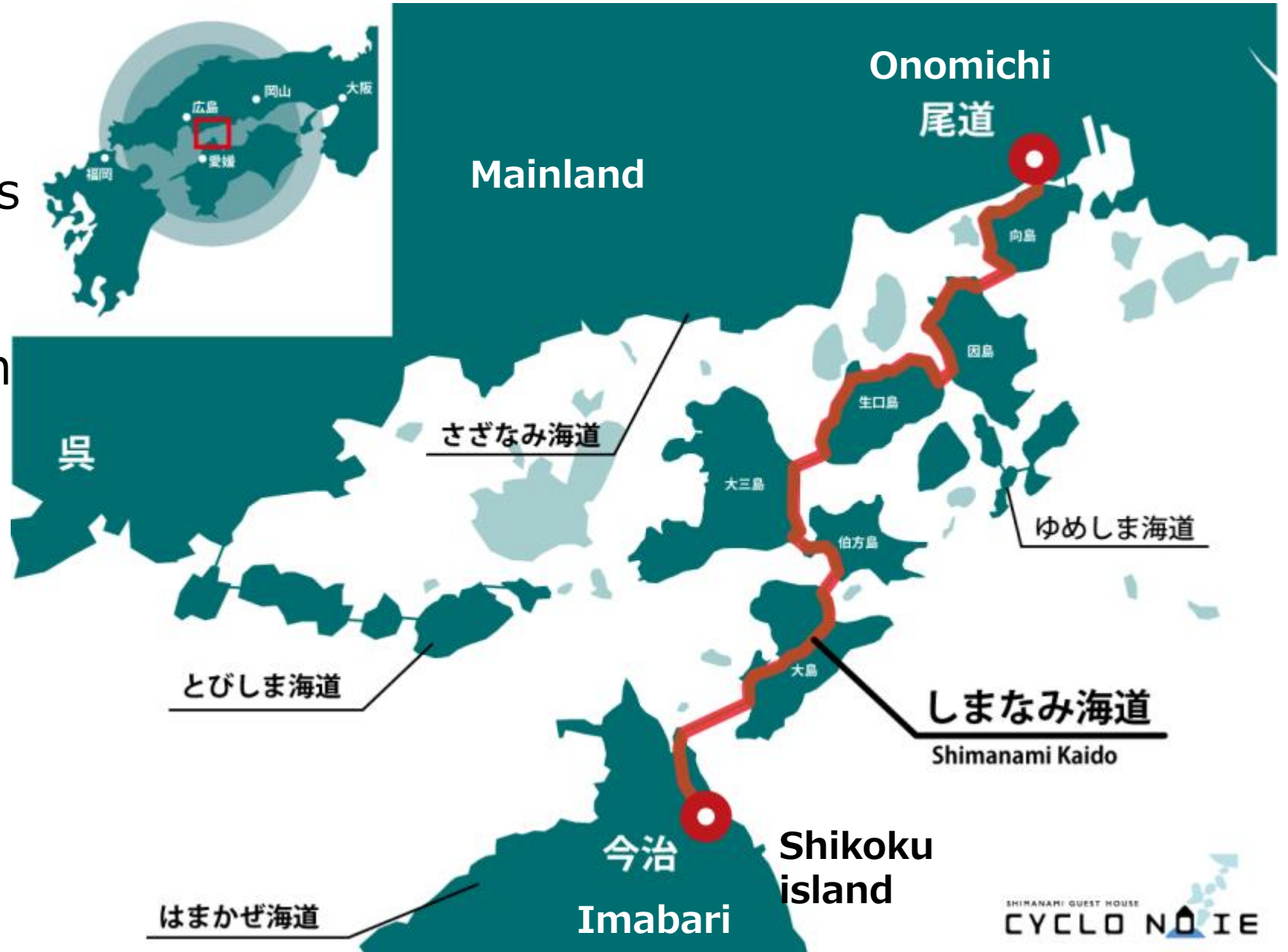
- The town is famous for Sake (rice wine) brewery.
- 8 brewery companies are concentrated in the downtown.
- National Research Institute for Brewing 酒類総合研究所 is in the town.



Excursion

Shimanami kaido (Islands oceanic road) is connecting the main Island (Honshu) and Shikoku by 7 bridges on Geiyo islands with Highway, bicycle road, and walk road.

This is an ideal cycling road.



Kurushima channel bridge

4.1km long bridge connecting Shikoku island and Oshima island.

Kurushima-channel is known as a difficult place in the sea, and tidal flow can reach up to 10 knots (16 km/h).



Murakami Pirates Museum

Geiyo-islands are famous as the base of the Murakami pirates.

This area was an important shipping route from Kyushu and Korea to Kyoto, the capital of Japan at that time, and the Murakami pirates gained power by seizing the right of navigation.

Many ruins of forts and castles remain.

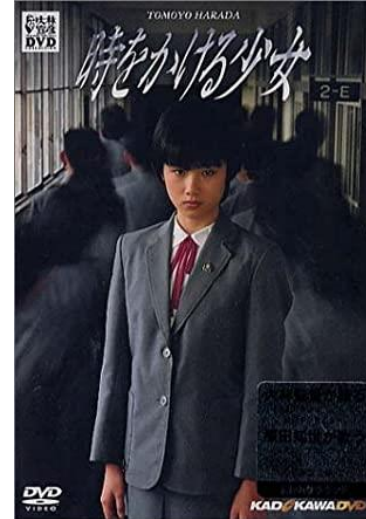


Onomichi-Town

Onomichi is a major transportation hub, and even today, in addition to the water transportation of the Onomichi channel, Shinkansen, the local train line, and expressways run through the city.

The steep terrain extends to the sea. Senkoji Temple is a Buddhist temple built on a cliff from which one can enjoy a nice view.

It is also known as a movie town and has been the setting for many movies.



Hyottoko odori

- The word hiyottoko comes from hi-otoko (fire man), who is believed to be the god who protects the hearth (oven).
- His unique mouth is shaped to blow fire.
- Hyottoko dance is one of Japan's traditional dances, and competitions are held every year in Miyazaki Prefecture.
- It is a regular event at ISBA. Participation in this dance is part of the ISBA curriculum.



ISBA19

COVID-19

Basic Measure

- Please wear a mask indoors.
- Please wash or disinfect your hands frequently.
- Please take antigen tests every two days during school.

While you are eating

- Please wear a mask when you talk.
- Please keep your voice down.

Positive or any symptoms...

Please contact our secretariat immediately.

- Phone: +81-(0)9034751997
- Email: isba22@ml.post.kek.jp

Symptomatic case

- Please stay in your room for 7 days and take a test on the 8th day. When negative, you can join the school in person.

Asymptomatic case

- Please stay in your room for 5 days and take a test on the 6th day. When negative, you can join the school in person.

School Operation

- The lecture is online for at least 3 days in a row. The hands-on training might be canceled depending on the situation.