

SAKURA Online International Practical Course 2022

“An Invitation to Marine Biology”

Marine Biological Station, Sado Island Center for Ecological Sustainability, Niigata University (SMBS) has organized the SAKURA Online International Practical Course 2022 entitled “An Invitation to Marine Biology” on 27-28th July 2022. This online event was fully supported by SAKURA Science Program (Japan Science and Technology Agency). Totally 40 participants (29 students and 11 researchers) from 9 different universities were joined as follow.

Country	University (alphabetical order)	No. of participants
Bangladesh	Bangladesh Agricultural University	8
Bangladesh	Chattogram Veterinary and Animal Sciences University	7
Japan	Fukuyama University	1
Vietnam	Graduate University of Science and Technology	1
Vietnam	Hanoi National University of Education	8
Bangladesh	Hajee Mohammad Danesh Science and Technology University	1
Japan	Hiroshima University	1
China	The University of Hong Kong	6
Japan	Niigata University	7

Program

* The individual times are in *JST* time zone (Tokyo, UTC+9).

Day 1: 27th July (Wed)

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|-------------|--|
| 12:00-12:10 | Opening remarks |
| 12:10-12:30 | Introduction of Sado Marine Biological Station |
| 12:30-13:30 | Icebreaking talk session |
| 13:30-14:15 | Lecture 1 (HNUE) <ul style="list-style-type: none">• New insights into gobies from tropical estuaries (Assoc. Prof. Hau)• Anti-nutritional factors in soybean meal and promising approaches to improve nutritional quality of soybean meal in aquafeeds (Assoc. Prof. Hung) |
| 14:15-14:30 | Group photo, break |
| 14:30-16:40 | Lecture 2 (SMBS) <ul style="list-style-type: none">• Lecture about biodiversity of marine animals in Sado Island using live streaming |
| 16:40-17:40 | Lecture 3 (BAU) <ul style="list-style-type: none">• Global warming challenges for aquaculture (Prof. Shahjahan)• Early development and growth performance of striped catfish in climate caused salinity intrusion (Mrs. Hossain, Doctoral student)• Microplastic contamination of commercial dried fish from the Bay of Bengal (Mr. Hasan, MS Student) |
| 17:40-17:45 | Day1 closing |

Day 2: 28th July (Thu)

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|-------------|--|
| 12:00-12:10 | Day 2 opening |
| 12:10-13:10 | Lecture 4 (Guest talk) <ul style="list-style-type: none">• Dr. Kuragesan's adventure for new species – hybrid work among field, aquarium, and laboratory (Dr. Izumi, Fukuyama University, Japan) |
| 13:10-14:10 | Lecture 5 (Guest talk) <ul style="list-style-type: none">• Application of jellyfish in lobster aquaculture (Assoc. Prof. Wakabayashi, Hiroshima University, Japan) |
| 14:10-14:30 | Group photo, break |
| 14:30-15:00 | Free-talk session with guest speakers |
| 15:00-16:00 | Lecture 6 (SMBS) <ul style="list-style-type: none">• Lecture about dynamics of marine ecosystems with live streaming of plankton and phytal animals |
| 16:00-17:00 | Lecture 7 (CVASU) <ul style="list-style-type: none">• The biology of the evolution of live-birth in echinoderm (Assoc. Prof. Khan) |
| 17:00-17:10 | Closing remarks |

Poster

SAKURA Online International Practical Course 2022

An Invitation to Marine Biology

Program (Japan Standard Time)

27th July (Wed)

- 12:00-12:10 Opening remarks (Prof. Ando)
- 12:10-12:30 Introduction of Sado Marine Biological Station (Dr. Toyota)
- 12:30-13:30 Icebreaking talk session
- 13:30-14:15 Lecture 1 (Hanoi National University of Education, Vietnam)
- New insights into gobies from tropical estuaries (Dr. Hau)
 - Anti-nutritional factors in soybean meal and promising approaches to improve nutritional quality of soybean meal in aquafeeds (Dr. Hung)
- 14:15-14:30 Group photo, break
- 14:30-16:40 Lecture 2 (SMBS)
- Lecture about biodiversity of marine animals in Sado Island using live streaming (Dr. Omori)
- 16:40-17:40 Lecture 3 (Bangladesh Agricultural University, Bangladesh)
- Global warming challenges for aquaculture (Prof. Md Shahjahan)
 - Early development and growth performance of striped catfish in climate caused salinity intrusion (Mrs. Hossain, Ph.D. student)
 - Microplastic contamination of commercial dried fish from the Bay of Bengal (Mr. Hasan, MS Student)
- 17:40-17:45 Day1 closing (Dr. Toyota)

*All programs in English,
anyone can join!*

28th July (Thu)

- 12:00-12:10 Day 2 opening (Dr. Toyota)
- 12:10-13:10 Lecture 4 (Guest talk)
- Dr. Kuragesan's adventure for new species – hybrid work among field, aquarium, and laboratory (Dr. Izumi, Fukuyama University, Japan)
- 13:10-14:10 Lecture 5 (Guest talk)
- Application of jellyfish in lobster aquaculture (Dr. Wakabayashi, Hiroshima University, Japan)
- 14:10-14:30 Group photo, break
- 14:30-15:00 Free-talk session with guest speakers
- 15:00-16:00 Lecture 6 (SMBS)
- Lecture about dynamics of marine ecosystems with live streaming of plankton and phytal animals (Dr. Toyota)
- 16:00-17:00 Lecture 7 (Chattogram Veterinary and Animal Sciences University, Bangladesh)
- The biology of the evolution of live-birth in echinoderm (Dr. Khan)
- 17:00-17:10 Closing remarks (Dr. Omori)

Registration

DEADLINE: 20th July

Online now at

<https://forms.gle/muFBPqwZDNs9iVEu9>



More information

- Kenji Toyota
(e-mail: toyotak@cc.niigata-u.ac.jp)

- SMBS web site

<http://www.sc.niigata-u.ac.jp/sc/sadomarine/english/index.html>



**Marine Biological Station,
Sado Island Center for Ecological Sustainability,
Niigata University**

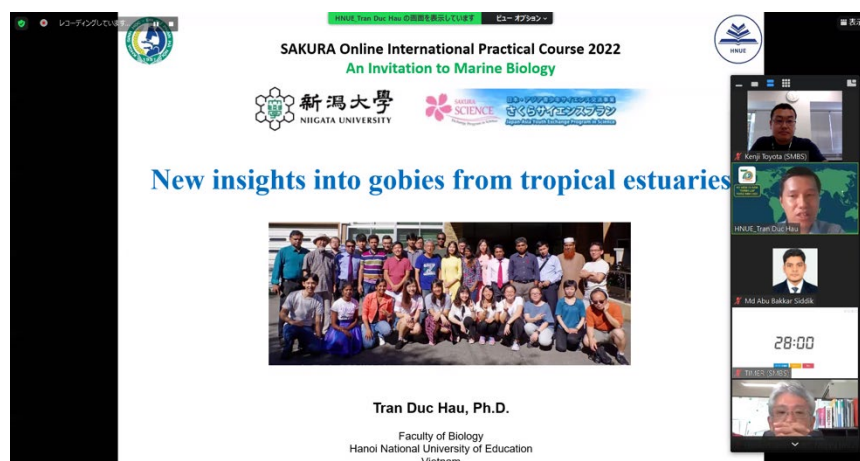


Report

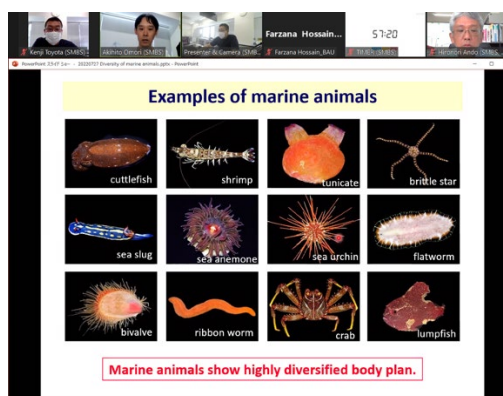
Although the International Marine Biological Course (IMBC) is held every summer, it was held online last March due to COVID-19. This year's one was scheduled to be held in face-to-face style, but it was also held online as last year. Unlike the previous event, two-days event included slots for students and researchers from Bangladesh Agricultural University (BAU; Bangladesh), Chattogram Veterinary and Animal Sciences University (CVASU; Bangladesh), and Hanoi National University of Education (HNUE; Vietnam) to introduce their latest researches. Additionally, we also invited two young marine biologists from Japan to introduce their taxonomic research on cnidarians and aquaculture research on lobster.

On the Day-1 (27th July 2022), we had “Icebreaking talk session” to chat among participants. This session used Zoom's breakout room function to divide participants, including all teaching staff and students, into three groups of about 15 participants, and each group will have 20 minutes to introduce themselves for about a one-minute/participant.

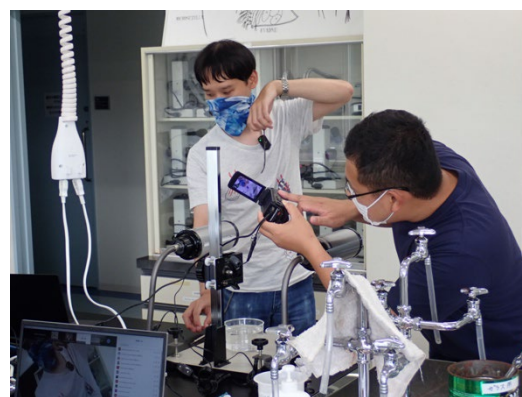
Then, as a Lecture 1, Dr. Hau (HNUE) talked his latest research topics entitled “New insights into gobies from tropical estuaries”.



As a Lecture 2, Dr. Omori (SMBS) provided the lecture about biodiversity of marine animals in Sado Island using live streaming of animals that caught around SMBS.



Snapshot of Dr. Omori's lecture



Live streaming of animals

As a final slot of Day-1, members of BAU provided three different research topics focused on impacts of global warming on aquaculture, impacts of salinity on early development of striped catfish, and surveys of microplastic contamination in the commercial dried fish from the Bay of Bengal.

On the Day-2 (28th July 2022), we prepared two special lectures by guest speakers: Dr. Takato Izumi (Fukuyama University) and Dr. Kaori Wakabayashi (Hiroshima University). Dr. Takato Izumi provided a special lecture entitled “Dr. Kuragesan’s adventure for new species – hybrid work among field, aquarium, and laboratory”. This lecture introduced the process of describing "undescribed species focusing mainly on cnidarians " through persistent researches in an easy-to-understand talk.



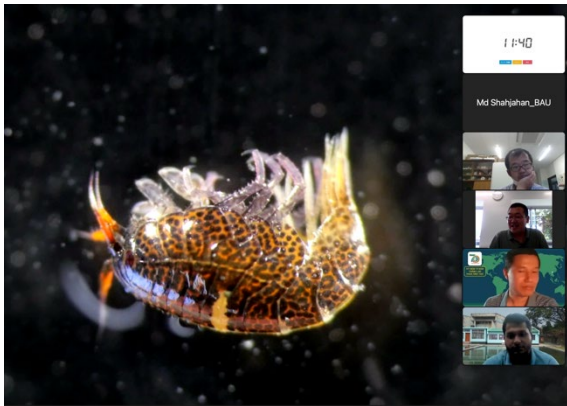
Snapshot of Dr. Izumi's lecture

Next, Dr. Kaori Wakabayashi provided special talk focused on lobster aquaculture. Her research approach is a quite unique because larvae of lobster (phyllosoma) grow by feeding on jellyfish. Her talk included such unique ecology of phyllosoma of Japanese fan lobster.

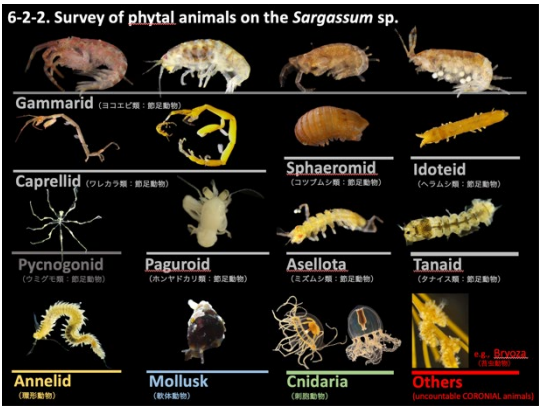


Snapshot of Dr. Wakabayashi's lecture

As a Lecture 6, Dr. Toyota (SMBS) provided basic lecture about dynamics of marine ecosystems with live streaming of plankton and phytal animals.

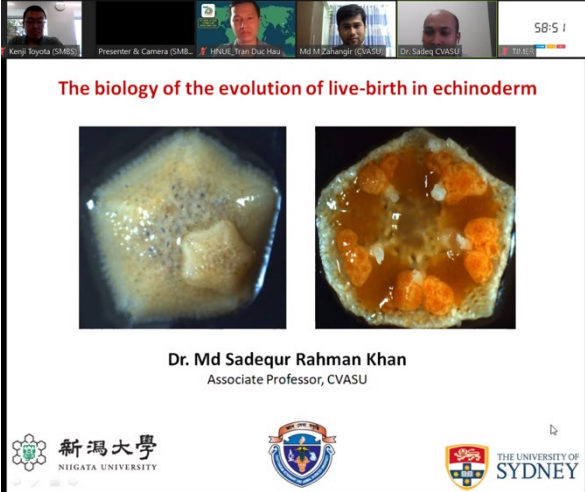


Live streaming of phytal animal (gammarid)



Catalog of phytal animals

As a final slot Day-2, Dr. Khan (CVASU; Bangladesh) introduced his latest research entitled “The biology of the evolution of live-birth in echinoderm”.

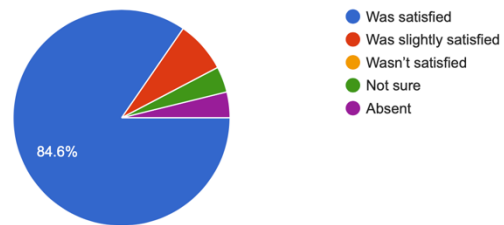


Snapshot of Dr. Khan’s lecture

A survey taken after this program showed that the two live-streaming-based lectures we prepared were well received. Students' comments included the request that they would definitely like to visit Sado Island next time to directly experience various marine animals. We would like to welcome students/researchers from all over the world to the next face-to-face marine practical course.

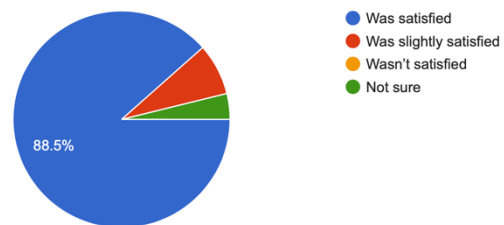
3. How satisfied are you with our lecture on "Biodiversity of marine animals in Sado Island"?

26 件の回答



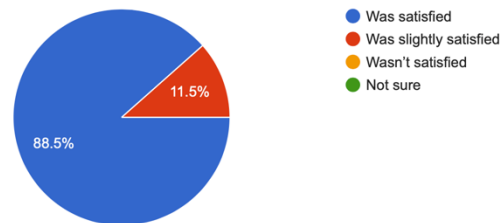
4. How satisfied are you with our lecture on "Dynamics of marine ecosystems of plankton and phytal animals"?

26 件の回答



5. How satisfied are you with our live streaming of marine animals?

26 件の回答



Questionnaires of this online event