



**Globalization of the Educational Systems of
Bioscience on the Basis of Biodiversity**

**Student Practice in Mukaishima Marine
Laboratory,
Hiroshima University**

Nanami Maniwa

**Second-year student of Matching Program
Course**

Location of Mar Lab, and members of the practice



1. Place of practice

Mukaishima Marine Lab

2. Participants

< Kazan State Univ. Guests >

Dr. Rushan Sabirov

Mrs. Sariya Sabirowa

Mr. Yaroslav Zabotin

< Mar Lab and Hiroshima Univ. >

Dr. Kinya Yasui

Dr. Makoto Urakawa

Dr. Yuriko Hirano

< Okayama Univ. >

Nine students (MP Course)

One graduate student

Dr. Masayuki Saigusa

Schedule (August 17-21, 2008)

Aug. 17	Morning: Okayama Univ Mar Lab Afternoon: Investigation of intertidal animals
Aug. 18	Morning: Lectures by Sabirov sensei and Zabolotin san Afternoon: Investigation of animals on the tidal flat Night: Collection of a sea firefly (crustacean)
Aug. 19	Morning: Lecture by Yasui sensei Afternoon: Collection of marine plankton
Aug. 20	Morning: Lectures by Sabirov and Saigusa sensei Afternoon: Field investigation on the seagrass beds Night: Farewell party
Aug. 21	Morning: Cleaning of the lab Mukaishima Okayama University

August 17 (afternoon)
Investigation on the intertidal zone



Preparation for collection
MP Course students

August 17 (afternoon)
Investigation on the intertidal zone



Collection of animals

Animals found in the intertidal zone (Aug. 17)

Snail



Thais clavigera

Snail



Serpulorbis imbricatus

Sea anemone



Heliplanella lineate

Sea slater



Ligia exotica

Animals found in the intertidal zone (2) Aug. 17



Collection on the sandy beach



Crustacean

Capitulum mitellia



Greenling: teleost

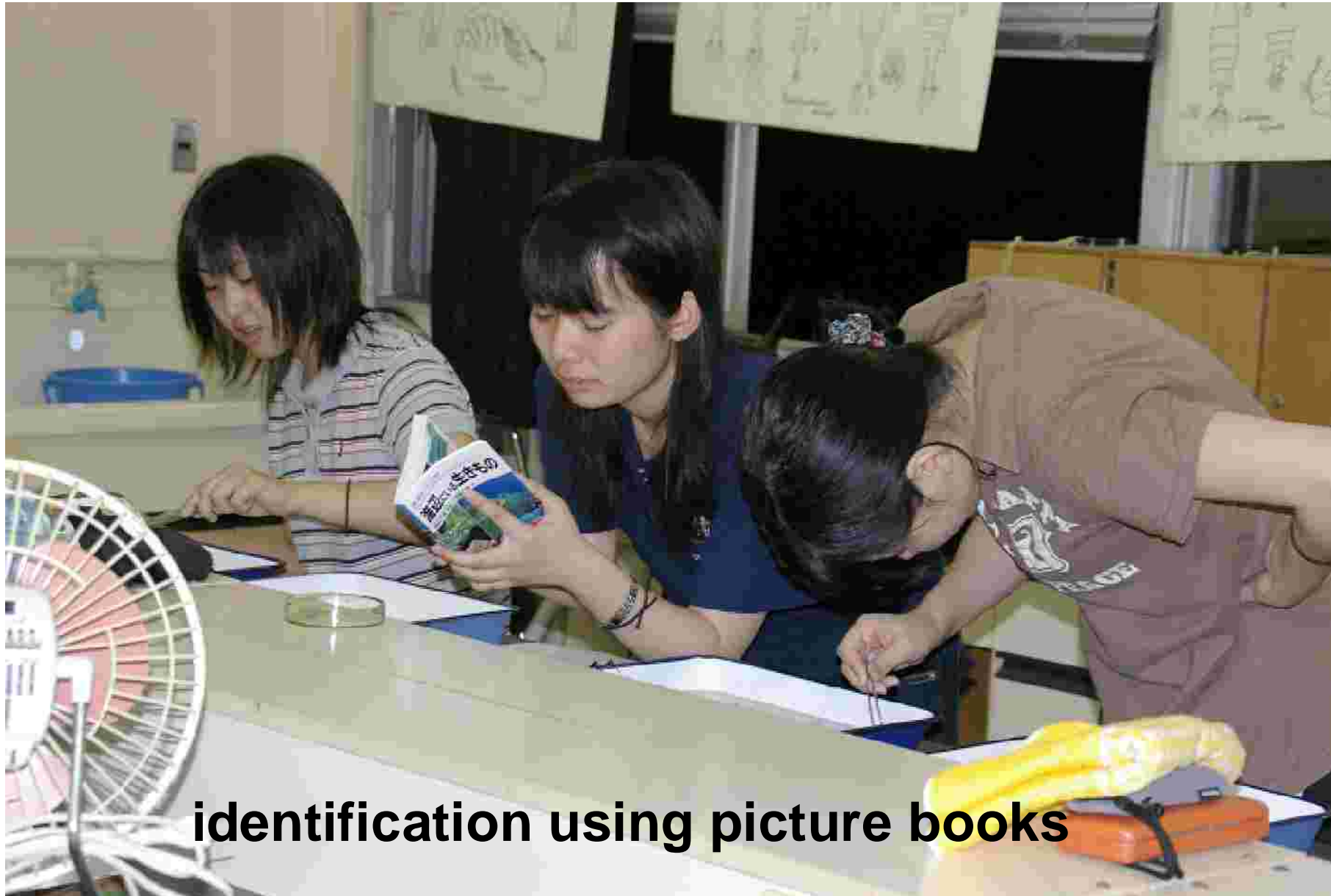
Hexagrammos otakii



Collection in the rocky shore

Identification of taxon (species or genus) in the Lab

Aug. 17-20

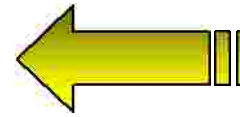


identification using picture books

Two lectures on Aug.18 (morning)

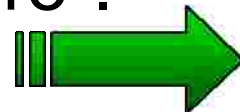


Sabirov sensei



“Location, history, culture of Kazan City, and student practice in the White Sea”.

“Phylogeny of lower invertebrates, on the basis of nervous system structure”.



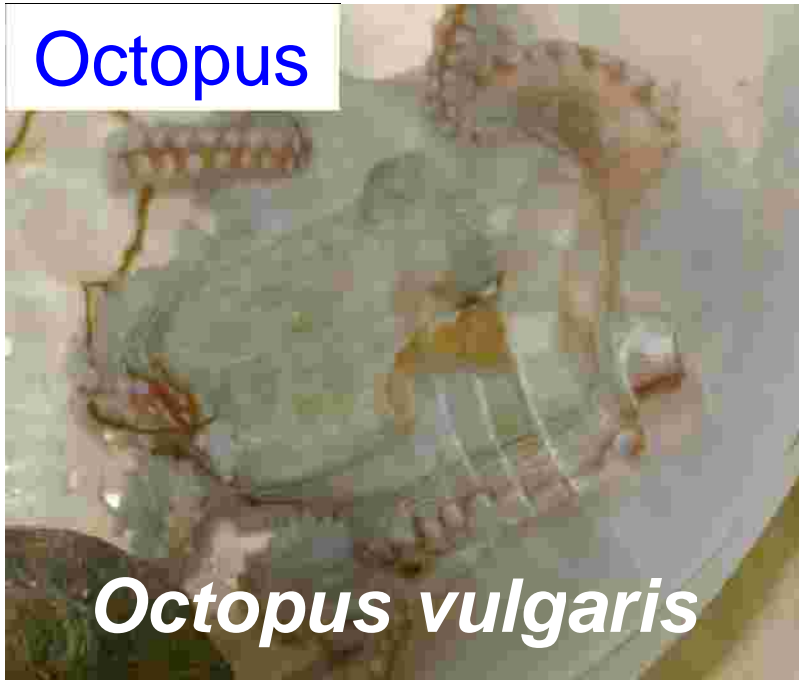
Zabotin san

Field investigation on the sandy tidal flat (Aug. 18)



Animals found in the intertidal zone (Aug. 17)

Octopus



Octopus vulgaris

Star fish



Asteria pectinifera etc.

Sand dollar



Pectinifere japonica etc.

Sea anemone

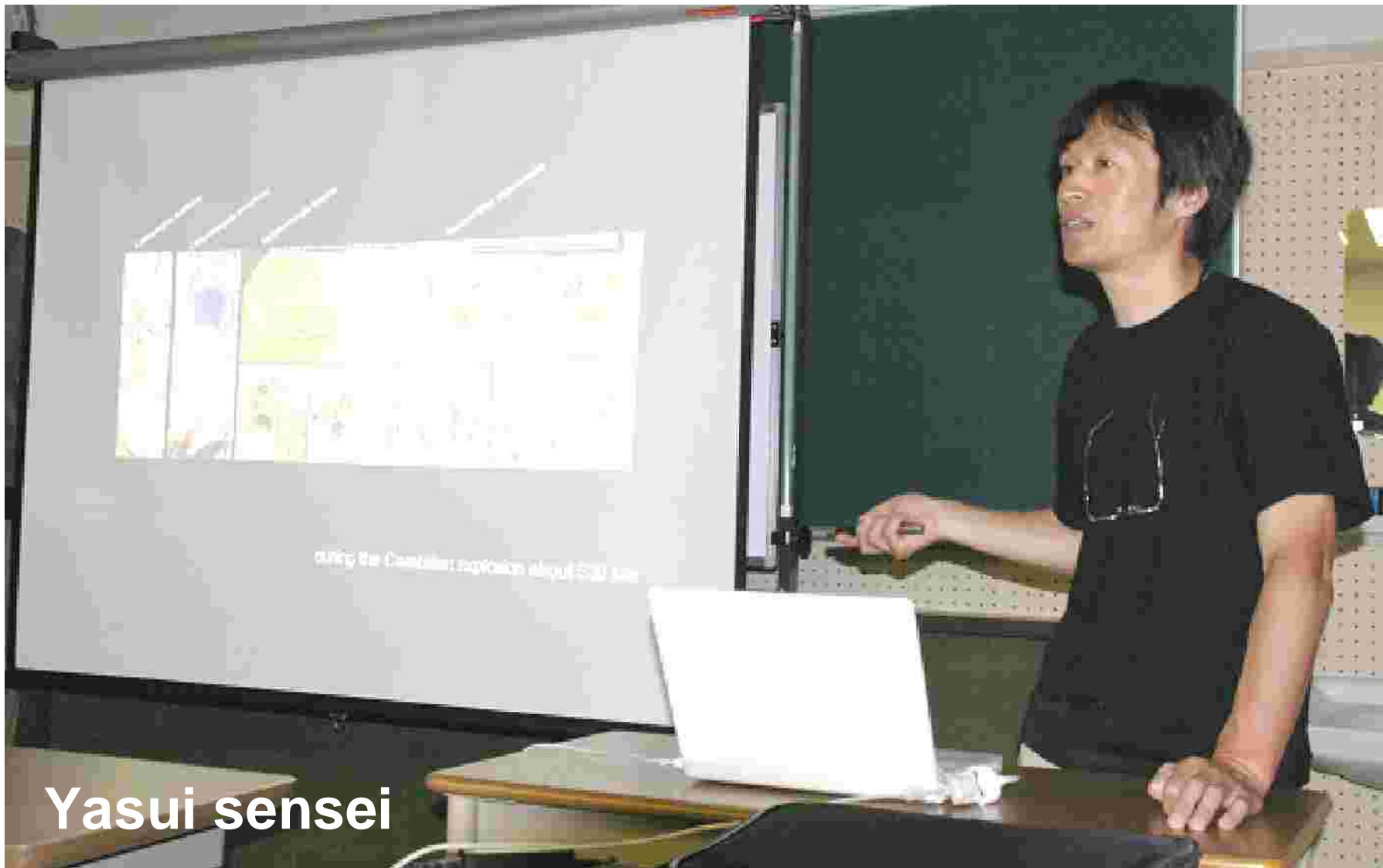


Dofleinia armata

Collection of fire crustacean at night (Aug. 18)



Lecture on Aug.19 (morning)



Yasui sensei

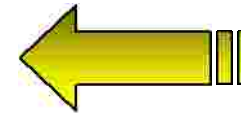
“Embryonic development and life cycle of the lancet inhabiting Seto Inland Sea”.

Collection and observation of marine plankton (Aug. 19)



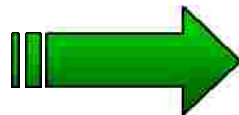
Guidance by Urakawa sensei

Two lectures on Aug.20 (morning)



“Biodiversity of the Marine environment in Seto Inland Sea”.

“ Ecology and pollution of the mud tidal flat”.



Investigation on the seagrass bed (Aug. 20)



Arrival to the seagrass bed



Mud shrimp (*Upogebia major*)



Collection animals

Preparation for the farewell party at night (on Aug. 20)



borsch



pirozhki

Farewell party



Thank you!