

The 3rd Design Symposium on Conservation of Ecosystem (SEASTAR2000)

March 15, 2015

Kyoto University, Hokubu Seikyo Hall, 2nd Floor

Supported by the Collaborative Graduate Program in Design, Kyoto University

PROGRAM

09:30-10:00 **Registration**

10:00-10:10 **Opening remarks**

Nobuaki Arai (Executive Director of SEASTAR2000, Professor, Field Science Education and Research Center, Kyoto University)

Keynote Lectures

Chair: Lina Koyama

10:10-10:50 **Impacts of anthropogenic nitrogen input on the aquatic food webs of river ecosystem in central Japan: Riverine survey using multi-isotopic information**

*Nobuhito Ohte (Professor, Graduate School of Informatics, Kyoto University),
Hiroyuki Togashi, Naoko Tokuchi, Mayumi Yoshimura, Yoshikazu Kato,
Naoto F Ishikawa, Ken'ichi Osaka, Michio Kondo & Ichiro Tayasu*

10:50-11:30 **Water, fish and human society: Comprehensive evaluation and analyses of spatio-temporal variability of ecosystem services in coastal areas**

Jun Shoji (Associate Professor, Center for Field Science of the Seto Inland Sea Hiroshima University)

11:30-13:00 **Lunch**

Session I: Telemetry

Chair: Junichi Takagi

13:00-13:20 **Glide synchronization and intra-school movement variations in schooling 0-aged Pacific bluefin tunas under a semi-natural environment using acceleration/depth data loggers**

*Takuji Noda, Ko Fujioka, Hiromu Fukuda, Kotaro Ichikawa, Nobuaki Arai
& Hiromichi Mitamura*

13:20-13:40 **Spatio-temporal distribution of the white-spotted conger on tsunami-stricken fishing ground in Fukushima**
*Tomoya Hori, Takuji Noda, Toshihiro Wada, Takashi Iwasaki,
Hiromichi Mitamura & Nobuaki Arai*

13:40-14:00 **Habitat use and diel movement patterns of hatchery-reared Mekong giant catfish in Kaeng Krachan reservoir, Thailand**
*Yuichiro Tsuji, Hiromichi Mitamura, Takuji Noda, Nao Yoshida, Nobuaki Arai,
Hiroyuki Yamane, Yasushi Mitsunaga & Thavee Vipphanumas*

14:00-14:20 **Methods for reducing errors by multi-path effects in researches using ultrasonic telemetry systems**
Kohei Hasegawa, Keiichi Uchida & Yoshinori Miyamoto

14:20-14:40 **Coffee Breaks**

Session II: Echo-sounder and Animal Ecology

Chair: Saho Kameyama

14:40-15:00 **What to expect from an echo-sounder for sustainable fisheries?
~Fish size estimation and Fish identification~**
Rika Shiraki

15:00-15:20 **Fine-scale monitoring of Adélie penguins commuting pathways in a fast sea-ice area**
Junichi Takagi, Hiromichi Mitamura, Takuji Noda & Akinori Takahashi

15:20-15:40 **Swimming locomotion of terrestrial snakes, *Elaphe quadrivirgata* and *Elaphe climacophora***
*Runa Tabata, Hideaki Nishizawa, Tomoya Hori, Hiromichi Mitamura
& Nobuaki Arai*

15:40-16:00 **Study on heavy metal accumulation in stranded marine endangered species along the Eastern Gulf of Thailand**
Suthep Jualaong & Chalutip Juachompu

Poster Session
Chair: Tomoya Hori

16:00-17:30

- P01** **Glide synchronization and intra-school spatial movement in schooling 0-aged Pacific bluefin tunas under a semi-natural environment**
Yusuke Komoto, Takuji Noda, Hiromu Fukuda, Ko Fujioka, Kotaro Ichikawa, Nobuaki Arai & Hiromichi Mitamura
- P02** **The tracking of giant freshwater stingrays (*Himantura chaophraya*) using acoustic telemetry in the Chao Phya River, Thailand**
Nao Yoshida, Hiromichi Mitamura, Takuji Noda, Nobuaki Arai, Hiroyuki Yamane, Yasushi Mitsunaga & Thavee Viputhanumas
- P03** **Identification of feeding behaviors in sit-and-wait fish from axis-free motion data**
Yuichiro Mashino, Yusuke Ina, Takuji Noda, Nobuaki Arai & Hiromichi Mitamura
- P04** **Development of event-driven acoustic transmitter for monitoring behavior of aquatic animals**
Yusuke Ina, Yuichiro Mashino, Takuji Noda, Nobuaki Arai & Hiromichi Mitamura
- P05** **Changes of fishery resources in relation to water environments in Osaka Bay**
Masaki Nakajima, Kenji Tarutani & Susumu Yamochi
- P06** **Genetic structure and diversity of green turtle populations in Malaysia**
Hideaki Nishizawa, Juanita Joseph, Wong Li Min & Tonny Anak Ganyai
- P07** **Passive acoustic monitoring of an isolated finless porpoises population in Ise- and Mikawa-Bay, Japan**
Satoko Soen Kimura, Ken Yoda & Tomonari Akamatsu
- P08** **Habitat sharing between sympatric harbor porpoises and delphinids in the Istanbul Strait, Turkey**
Saho Kameyama, Tomonari Akamatsu, Ayhan Dede, Ayaka Amaha Öztürk & Nobuaki Arai

- P09** **Communication sound of Commerson's dolphin during the social behaviour**
Yayoi Yoshida, Hiroko Fukuzawa-Tanaka, Junichi Jinguu & Shiro Kohshima
- P10** **Heterogeneous movement of dugongs between a vocal hotspot and a seagrass bed in Johor, Malaysia**
Kotaro Ichikawa, Tomonari Akamatsu, Louisa Ponnampalam, Kee Alfian & Nobuaki Arai
- P11** **Behavioral classification of bellybutton nautilus (*Nautilus macromphalus*) from tri-axial acceleration data**
Junichi Okuyama, Takeya Moritaki, Yoshihito Wakai & Nobuaki Arai
- 17:30-17:40** **Closing Remarks**
Wataru Sakamoto (Chair of SEASTAR2000, Professor Emeritus, Kyoto University)
- 18:00-20:00** **Evening Reception**