

PROGRAM

Monday 16 November 2015

08:00-09:30

Registration

09:30-10:00

Opening session

Opening address

Raja Bidin Bin Raja Hassan

Chairman of AFAS2015 Steering Committee

Welcome address

Kohji Iida

Chairman of Asian Fisheries Acoustics Society

Welcome address

Shettapong Meksumpun

Dean, Faculty of Fisheries, Kasetsart University

Welcome address

Mr. Bundit Chokesangun

Acting Training Department Chief, SEAFDEC

Group photo

10:00-10:15

Break

10:15-12:00

Invited lecture

Chair: Kohji Iida

10:15 **Acoustic technology can contribute positively to the development of area-capability cycles for coastal fisheries**

Satoshi ISHIKAWA, Research Institute for Humanity and Nature (RIHN)

11:05 **Endangered species Mekong giant catfish: Acoustic telemetry solves the mystery of the giant catfish ecology**

Hirofumi MITAMURA, Kyoto University

12:00-13:00

Lunch at Windsor Suit hotel dining room 1st Floor

13:00-14:40

Session I: Acoustic Technology (SGAT)

Chair: Yasushi Nishimori, Sub-chair: Tomohito Imaizumi

13:00 (SGAT-101)

Development of Assessment Methods for Position deviation in Artificial Reef Installation in Marine Ranching.

°Zhang Shouyu, Shen Tianyue and Shen Wei

13:15 (SGAT-102)

Report of scientific data output function into a conventional echo sounder

°Takuto Hazama, Yoshihiro Nishiyama, and Shogo Nagai

13:30 (SGAT-103)

Evaluation result of scientific data output from conventional echo sounder

°Yoshihiro Nishiyama, Takuto Hazama, and Shogo Nagai

13:45 (SGAT-104)

High precision remote SBT(Small Bathy Thermometer)

°Toyoki Sasakura, Kiyoshi Itoh, and Shin-ichiro Yanagi

14:00 (SGAT-105)

The new scientific wideband split beam echo sounder, EK80

Dr. Lars Nonboe Andersen

14:15 (SGAT-106)
Comparing echo characteristics of fish school obtained by multibeam system ME70 and scientific echo sounder EK60

◦Koki ABE1, Tomohiko MATSUURA, Masa-aki FUKUWAKA, and
Tohya YASUDA

14:30 **Free discussion (10 min.)**

14:40-15:50

Session II: Theory and Target Strength (SGTS)

Chair: Yong Tang, **Sub-chair:** Koki Abe

14:40 (SGTS-201)
**Acoustic scattering characteristic of scorpion fish *Sebastiscus marmoratus*
based on *ex-situ* target strength**

◦Doo-Jin HWANG, Eun-A YOON, Minwoo LEE, Seulgi CHOI, Sung-Ho SUH,
Seung-Han KIM, Hee-Jin KIM, and Sang-Jin YE

14:55 (SGTS-202)
**Material properties, tilt angle distribution, and theoretical target strength
of the sandfish *Arctoscopus japonicus***

◦Eun-A YOON, Kyounghoon LEE, Doo-Jin HWANG, Hyungbeen LEE, and
Yong-Beom PYEON

15:10 (SGTS-203)
**Measuring frequency response of fish by using broadband split-beam
system at tank and sea**

◦Tomohito Imaizumi, Koki Abe, Masanori Ito, Atsushi Kinjyo, Ikuo
Matsuo, Yang Wang, Yasushi Nishimori, and Tomonari Akamatsu

15:25 **Free discussion (10 min.)**

15:35-15:50

Break

15:50-17:15

Session III: Acoustic Application (SGAA)

Chair: Yoshinori Miyamoto, Sub-chair: Hyeon-Ok SHIN

15:50 (SGAA-301)

Developing an Inter-individual communication biologging system

°Minlee Yap, Yoshinori Miyamoto, Nobuaki Arai, Hiromichi Mitamura,
Keiichi Uchida, Satoko Soen Kimura, Kazushi Miyashita, Hokuto
Shirakawa, and Yuichi Tsuda

16:05 (SGAA-302)

**Acoustic property and diel periodicity of sound production by fat
greenling (*Hexagrammos otakii*) in spawning time**

°Naoto Matsubara, Hiroyuki Munehara, Ryuzo Takahashi Nobuo Kimura,
Kazuyoshi Maekawa and Hiroki Yasuma

16:20 (SGAA-303)

**Daily change and acoustical characteristics of underwater noise on a
submerged sea tunnel in Jinhae Bay, Korea**

Hyeon-Ok Shin

16:35 (SGAA-304)

**Characteristics of Vessels underwater noise at Jetties of Pulau Payar
Marine Park and Pulau Bidong**

°Khalid Samo, Aziani Ahmad, Jamil Tajam, Mohd Idrus Shaari, and
Z.Irma Z. Ismail

16:50 (SGAA-305)

**Presence and behaviour of harbour porpoise around a set net by using
passive acoustic monitoring**

°Hiroki Higashisaka, Takashi Matsuishi, and Tomonari Akamatsu

17:05 **Free discussion (10 min.)**

18:30-20:00

Welcome reception at the conference venue

Tuesday 17 November 2015

08:00-09:30

Registration

09:30-10:55

Session IV: Echo Survey (SGES)

Chair: Kazushi Miyashita, Sub-chair: Donhyug Kang

09:30 (SGES-401)

A study of behavioral ecology of fish under sea ice in Antarctica

°Yoshinori Miyamoto, Nobuaki Arai, Hiromichi Mitamura,
Keiichi Uchida, Tetsuo Iwami, Sakae Kudo and Akinori Takahashi

09:45 (SGES-402)

Using Echoview to view and process Simrad EK80 data

Mr. Briony Hutton

10:00 (SGES-403)

Acoustic survey methodologies and evaluation of artificial reef

°Wei Shen, Xiang Zhang, Jin Zhang, Shouyu Zhang

10:15 (SGES-404)

**Impact of towing speed and net color on catch efficiency
using an acoustic method**

°Zhen LU, Kohji Iida, Tohru Mukai and Yasuzumi Fujimori

10:30 (SGES-405)

Estimation of Fish Abundance in Set-Net Fishing Ground by Fish Finder

◦Rutpong Koonchornboon, Monton Anongponyoskun, Yuttana Theparoonrat, Miyamoto Yoshinori, Uchida Keiichi, Minlee Yap, Sasakura Toyoki, and Kritsada Thongsila

10:45 **Free discussion (10 min.)**

10:55-11:10

Break

11:10-12:35

Session V: Ecosystem Monitoring (SGEM)

Chair: Raja Bidin Bin Raja Hassan, **Sub-chair:** Doojin Hwang

11:10 (SGEM-501)

The tool for autonomous detection of fish calls by using the underwater recorder

Ikuo Matsuo

11:25 (SGEM-502)

Seasonal characteristics of acoustical marine environment in the shallow sea

◦Seul-Gi CHOI, Min-Woo LEE, Eun-A YOON and Doo-Jin HWANG

11:40 (SGEM-503)

Identification of zooplankton sizes using three frequencies acoustics around Funka Bay, Hokkaido Japan

◦Eunho Kim, Tohru Mukai and Kohji Iida

11:55 (SGEM-504)

Seasonal prediction of favorable habitat for *Sargassum horneri* using quantitative echo sounder and Maxent in Yamada Bay, Iwate, Japan

◦Kenji Minami, Chihomi Kita, Hokuto Shirakawa, Huamei Shao, and Kazushi Miyashita

12:10 (SGEM-505)

Development of a Underwater Monitoring System for Pelagic Longline

°Jianfeng Tong, Jun Han, Renai Huang, and Liming Song

12:25 **Free discussion (10 min.)**

12:35-13:35

Lunch at Windsor Suit hotel dining room 1st Floor

13:35-14:35

General meeting of AFAS

14:35-16:35

Poster session

Chair: Yuttana Theparoonrat

(PS-601)

Ultrasonic acoustic detection system for real-time detecting Harmful Algal Bloom's (red tide) in the coastal water, Korea

°Donhyug Kang, Byoung Kweon Kim, Seung Won Jung, and Mira Kim

(PS-602)

A multi-frequency acoustic method to assess the marine algae distribution in the offshore sea-hill

°Akira Hamano, Takahito Fujiwara, Masahiro Hamana, Takeshi Nakamura,
Hideaki Tanoue, Noboru Murase and Kenji Minami

(PS-603)

The development of wireless acoustic biotelemetry system

°Yong TANG, Gang WANG, Guangfa Zhang, Yong Chen, and Toyoki Sasakura

(PS-604)

Application of hydroacoustics in investigating distribution, diel movement and abundance of fish in the Zhubi Reef, Nansha Islands, South China Sea

°Zhang Jun, Chen Guo-bao, Chen Zuo-zhi, and Qiu Yong-song

(PS-605)

Fish size measurement using scientific echo sounder and common echo sounder of dual beam method

°Min-Woo LEE, Seul-Gi CHOI, Eun-A YOON and Doo-Jin HWANG

(PS-606)

Ultrasonic acoustic detection system for real-time detecting Harmful Algal Bloom's (red tide) in the coastal water, Korea

Ms. Mira Kim

16:35-16:55

Break

16:55-17:25

Closing session

18:30-20:30

Banquet at the conference venue