PROGRAM

Monday 13 November 2017

09:30-10:00

Registration

10:00-10:30

Opening session

Opening address

Yong Tang

Chairman of AFAS2017 Steering Committee

Welcome address

Yoshinori Miyamoto

Chairman of Asian Fisheries Acoustics Society

Group photo

10:30-10:45

Tea Break

10:45-11:00

Commemorative Speech

Chair: Yoshinori MIYAMOTO

Xianyong Zhao

Vice Chairman of AFAS2017 Steering Committee

11:00-11:30

General Meeting

11:30-13:00

Lunch

13:00-15:00

Session I: Echo Survey (SGES)

Chair: Xianyong ZHAO, Kazushi MIYASITA

13:00 Characteristics of echograms of fishery resources in coastal marine ranches in the East and West Seas in Korea

Doo-jin Hwang, Eun-A Yoon, Kyounghoon Lee, Bo-Kyu Hwang, Yoo-Won Lee, Sung-Ho Suh, Ho-Sang Kim, Kyung-Seon Lee, and Eunbi Min

13:15 The performance of the new fishing gears of the anchovy boat seine fishery using a hydroacoustic method

Myounghee Kang, Junsu Park, Junseong Park, Choong-Sik Jang, Youn-Hyoung Cho, Young-Su An

13:30 Use of hydroacoustics and gillnet sampling for assessing fish abundance and biomass in Khun Dan Prakarnchon reservoir, Thailand

Deeka Ratanachamnong

13:45 Vertical distribution and diel migration of mesopelagic fishes on the northern slope of the South China Sea

Xinliang Wang, Jun Zhang, Xiaotao Yu, Jichang Zhang, Xiansen Li, Xianyong Zhao

Chair: Doo-jin HWANG, Xinliang Wang

14:00 Acoustics Survey and Research on the Biological Resources of the Northern Waters of Antarctic Peninsula in January 2016

Chen Shuai, Huang Hongliang, Li Lingzhi, Qu Taichun

14:15 Vertical and horizontal distribution of copepods abundance in the western Arctic Ocean during summer 2016

Eunho KIM, Hyoung Sul La, Wuju Son, Kyoung-Ho Cho, Jinyoung Jung, Eun Jin Yang, Sung-Ho Kang and Doojin Hwang

14:30 Estimating the catch efficiency of a framed midwater trawl for Juvenile Walleye Pollock (Gadus chalcogrammus) using an acoustic method - High accuracy estimation with a black net at night – Zhen LU^{IS}*, Tohru MUKAI², Yasuzumi FUJIMORI² and Kohji IIDA²

14:45 Acoustic distinction between pointhead flounder and juvenile walleye pollock using a quantitative echo-sounder in and near Funka Bay, Hokkaido, northern Japan

Naizheng YAN^{1S}, Tohru MUKAI², Jun YAMAMOTO³

15:00-15:20

Tea Break

15:20-16:05

Session II: Theory and Target strength (SGTS)

Chair: Myounghee KANG, Jun ZHANG

15:20 Development of a new counting system of caged bluefin tuna using multi-transducer sonar and pinger

Toyoki Sasakura¹, Akira Hamano²

15:35 Measurements of backscattering strengths of the red tide species (Akashiwo sanguinea and Alexandrium affine) using ultrasound

Hansoo Kim^{1,2,8}, Donhyug Kang¹, Mira Kim¹, Seung Won Jung³, and Byoung Kweon Kim⁴

- 15:50 Modelling study on the target strength of Ceratoscopelus warmingii in the South China Sea YU Xiaotao, WANG Xinliang, ZHAO Xianyong
- 16:05 In situ measurement of Antarctic krill density contrast and its application used in estimation of Target strength

WAN Shujie^S, YANG Yang, WANG Teng, TONG Jianfeng, ZHU Guoping

16:20-17:50

Session III : Ecosystem Monitoring (SGEM)

Chair: Tohru MUKAI, Donhyug KANG

16:20 Acoustic monitoring of giant jellyfish Nemopilema nomurai using quantitative echosounder EK60 and scientific multibeam echosounder ME70

Tomohiko MATSUURA^{1*}, Koki ABE¹, Haruya YAMADA², Yoko KIYOMOTO², and Satoshi KITAJIMA²

16:35 **Attempt of behavior observation of skipjack in Kuroshio Current region around Yonaguni Island** Saki Asai^{1,S*}, Keiichi Uchida^{2,8}, Kazushi, Miyashita^{3,8}, Nobuaki Arai^{4,8}, Hiromichi Mitamura^{5,8}, Takashi Kitagawa^{6,8}, Hokuto Shirakawa^{3,8}, Yoshinori Miyamoto^{2,8}, Toyoki Sasakura^{7,8}

 $16:50 \quad \textbf{Characterization of the fish distribution in coast water in Kochi prefecture}$

Yanhui Zhu^{1S*}, Yuka Iwahara², Kenji Minami³, Kentaro Oda², Koichi Hidaka², Osamu Hoson², Daichi Oshiyama¹, Hokuto Shirakawa³, Kouji Morishita², Sentaro Tsuru², Masahito Hirota², Kazushi Miyashita³

- 17:05 Spatial and Temporal Variation of Zooplankton Backscattering Strength from Mobile ADCP Data Angga Dwinovantyo^{1S}, Henry M. Manik²*, Tri Prartono², Susilohadi Susilohadi³
- 17:20 **Seabed multibeam backscatter mapping of Jakarta Bay**Steven Solikin^{1S}, Henry M. Manik²*, Sri Pujiyati², Susilohadi³
- 17:35 Comparing the fish aggregation effect among wind turbine foundation, wind tower and artificial reefs using acoustic and scuba diving surveys a case study in Miaoli offshore wind farm area, Taiwan

Shih-Hsuan Sun^{1S}*, Hsueh-Jung Lu¹, Jia-Rong Lin¹, Ching-Hsien Ho², Jing-Yi Chen³

18:00-20:00

Welcome reception at TongYu International Hotel

Tuesday 14 November 2017

8:30-9:30

Session IV : Acoustic Technology (SGAT)

Chair: Yasushi NISHIMORI, Xichang TAN

- 08:30 A simple low frequency calibration method of autonomous recorders in a very quiet lake Tomonari Akamatsu^{1*}, Ryuzo Takahashi², and Tomohito Imaizumi²
- 08:45 Use of Passive Integrated Transponder (PIT) technology for passage efficiency estimating on the Angu fishway (Dadu River), China

 Jiangping Tao^{1,2}, Wangbin Hu¹, Jingya Wen³, Chuanang Liu⁴, Qilin Shu⁵
- 09:00 A preliminary study on nautical area scattering coefficient and distribution of mesopelagic fishes in the central-southern part of the South China Sea

Jun Zhang^{1,2}, Zuozhi Chen^{1,2}, Mingshuai Sun^{1,2}, Yan Wang^{1,3}

09:15 **A Study on an Extensive Ranges Echo Sounder by Using of Multiple Transducers**Jianghuai ZHENG^S, Yoshinori MIYAMOTO, Keiichi UCHIDA, Kazuo AMAKASU

9:30-9:50

Tea Break

09:50-11:05

Session V: Acoustic Application (SGAA) Part I

Chair: Tomonari AKAMATSUA, Raja Bidin Raja HASSAN

09:50 Monitoring of fish behaior in large scale set net

Keiichi Uchida^{1*}, Yoshinori Miyamoto¹, Noro², Yuka Wada³, Yuuki Tanaka³, Yousuke Ochi⁴, Aki Miyagi⁵

and Seiji Akiyama¹

10:05 Detection and localization of Croaker's fish calls using beamforming

Ikuo Matsuo^{1*}, Kazuki Yamato², Ryuzo Takahashi³, Tomohito Imaizumi³, Tomonari Akamatsu⁴

10:20 DESIGNING TRANSMITTING – RECEIVING SYSTEM FOR OCEAN ACOUSTIC WAVEGUIDE REMOTE SENSING

Henry M. Manik¹, Susilohadi², Totok Hestirianoto¹, Billi R. Kusumah³, Angga Dwinovantyo³, Steven Solikin³

10:35 Movement range and behavior characteristics of gray rockfish (*Sebastes schlegeli*) by acoustic telemetry in Byeonsan Peninsular, Korea

Hyeon-Ok Shin^{1*}, Min-A Heo², Gyeom Heo² and Doo-Jin Hwang³

10:50 Short-term fidelity, habitat use and vertical movement behavior of the black rockfish Sebastes schlegelii as determined by acoustic telemetry

Yingqiu Zhang^{1,2}, Qiang Xu², Alós Josep³, Hongsheng Yang²

11:30-13:00

Lunch

13:00-13:30

Poster session

Comparing the fish aggregation effect among wind tower and artificial reefs using acoustic and scuba diving surveys – a case study in Changhua offshore wind farm area, Taiwan

Jia-Rong Lin¹*, Hsueh-Jung Lu¹, Shih-Hsuan Sun¹, Ching-Hsien Ho^{2Y}, Jing-Yi Chen³

Technical overview of a real time monitoring system for the detection and prediction of harmful algal bloom's (red tide) in Korea

Donhyug Kang^{1,*}, Hannsoo Kim^{1,2}, Mira Kim¹, Seung Won Jung³, Byoung Kweon Kim⁴

Monitoring the underwater noises of Large yellow croaker (Larimichthys crocea) in Deep-sea cage

Hongquan LI^S, Yong TANG, Leiming YIN, Binbin XING, Xin ZHUANG, Jin LIU, Zhenyu WANG

Study on hearing capacities of greenling (Hexagrammos otakii) by using ECG method

Zhenyu Wang^S, Guosheng Zhang, Binbin Xing, Leiming Yin, Xin Zhuang

13:30-15:00

Session V: Acoustic Application (SGAA) Part II

Chair: Hyeon-Ok Shin, Keiichi UCHIDA

13:30 Preliminary Study on Noise Removal Method of Antarctic Krill Acoustic Data Based on Support Vector Machine

Qu Taichun¹, Huang Hongliang¹, Li Lingzhi¹, Chen Shuai¹, Liu Jian¹, Wu Yue¹

- 13:45 The application of side scan sonar in impact assessment of artificial reefs in marine ranching ZHANG Yazhou, BI Yuanxin
- 14:00 Sonar observations of Chinese sturgeon (Acipenser sinensis Gray, 1835) spawning behavior in 2015 and 2016

Pengcheng Lin^{1,2}, Tao Chang^{1,2}, Xin Gao^{1,2}, Huanzhang Liu^{1,2}

14:15 Monitoring behavioral characteristics of the large yellow croaker (*Larimichthys crocea*) in Deep-sea cage using ultrasonic positioning system

Leiming YIN¹, Wei SONG², Yong TANG¹, Binbin XING¹, Jing LIU¹, Hongquan LI¹, Xin ZHUANG¹

14:30 Ordinary kriging as an efficient geostatistical supplement for marine fishery acoustic applications

Sun Mingshuai^{a,b,*}, Zhang Jun^{a,b}, Zhang Kui^{a,b}, Chen Zuozhi^{a,b}

14:45 Application of passive acoustic technology in fish's sounding behavior

ZHANG Siyu^S, HUANG Honghui,LU Weihua,GUO Shaozhong

15:00-15:20

Tea Break

15:20-16:20

Chair: Kohji IIDA, Leiming Yin

Company report session

16:20-17:20

Closing session

18:00-20:00

Dinner at TongYu International Hotel