

**2022년도 한국수산해양기술학회  
추계총회 및 학술발표대회 일정 안내**

일 시	2022년 11월 4일(금) 13:00
장 소	부산 BEXCO 제1전시장 3층 316호
주 최	한국수산과학총연합회
주 제	Fisheries Science in Pandemic era

행 사 일 정		
시 간	내 용	사회자/좌장
13:00~13:30	등 록 Registration	
13:30~14:00	총회 General assembly	이유원(부경대학교) Yoo-Won Lee
14:00~15:40	Part I 구두발표 Oral presentation part I	안영수(경상국립대학교) Young-Su An
15:40~15:50	Break time	
15:50~17:30	Part II 구두발표 Oral presentation part II	이경훈(전남대학교) Kyounghoon Lee
17:30~17:40	폐 회 Closing session	

※ 현장상황에 따라 세부 일정이 변경 될 수 있습니다.

## 2022년도 한국수산해양기술학회 추계 학술발표대회 세부일정

### ■ Fisheries and Ocean Technology (OT-1 ~ OT-10)

November 4<sup>th</sup>, 2022 (Friday)

#316, Exhibition center 1, BEXCO

∴ Oral presentation part I

#316

*Chairperson: Young-Su An (Gyeongsang national university)*

14:00-14:20 OT-1 An experimental study on the application of escape device in a net pot for protecting of small giant octopus (*Enteroctopus dofleini*)

Seonghun Kim<sup>1\*</sup>, Pyungkwan Kim<sup>2</sup>, Jaehyeong Yang<sup>2</sup> and Hyungseok Kim<sup>1</sup>

<sup>1</sup>Division of Marine Production System Management, Pukyong National University, Busan 48516, Republic of Korea

<sup>2</sup>East Sea Fisheries Research Institute, National Institute of Fisheries Science, Gangneung 25435, Republic of Korea

14:20-14:40 OT-2 A study on underwater stability of sea anchor according to the composition

Jung-Mo Jung<sup>1\*</sup>, Hyung-Seok Kim<sup>2</sup>, Seonghun Kim<sup>2</sup> and Kyung-Jin Ryu<sup>3</sup>

<sup>1</sup>Institute of Low-Carbon Marine Production Technology, Pukyong National University, Busan 48513, Republic of Korea

<sup>2</sup>Department of Marine Production System Management, Pukyong National University, Busan 48513, Republic of Korea

<sup>3</sup>Training ship, Pukyong National University, Busan 48513, Republic of Korea

14:40-15:00 OT-3 A study on the change in the physical properties of biodegradable fishing gear according to the packaging method and storage environment

Gyeom Heo, Bong-Jin Cha, Ju Ha Hwang, Kyusuk Choi and Subong Park<sup>\*</sup>

Fisheries Engineering Research Division, National Institute of Fisheries Science, Busan 46083, Republic of Korea

15:00-15:20 OT-4 Evaluation of the TAC system by estimation of catch per unit effort of Chub mackerel using catch and Large Purse Seine trajectory data

Solomon Amoah Owiredu, Kwang-Il Kim, Byung-Yeob Kim, Sang-Lok Yoo and Eun-A Song  
Department of Marine Industrial & Maritime Police, Jeju National University, Jeju 63243, Korea

15:20-15:40 OT-5 Comparison of Skipjack tuna catch rate by operation time of Korean tuna purse seine fishery in the Western and Central Pacific Ocean

Young Shin Ha<sup>1</sup>, Youjung Kwon<sup>1</sup>, Mi Kyung Lee<sup>1</sup> and Sung Il Lee<sup>2</sup>

<sup>1</sup>Division of Distance Water Fisheries Resources Research, National Institute of Fisheries Science, Busan 46083, Republic of Korea

<sup>2</sup>Division of Marine Production System Management, Pukyong National University, Busan 48513, Republic of Korea

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**∴ Oral presentation part II**

#316

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*Chairperson: Kyoungsoon Lee (Chonnam national university)*

15:50-16:10 OT-6 Detection of the sound emitting of dolphin and porpoises by passive acoustic monitoring technology in the East Sea, Korea

Hyeon-Ok Shin<sup>1\*</sup>, Gyeom Heo<sup>2</sup>, Mina Heo<sup>3</sup> and Gyeongmi Kang<sup>4</sup>

<sup>1</sup>Division of Marine Production System Management, Pukyong National University, Busan 48513, Korea

<sup>2</sup>Fisheries Engineering Research Division, NFRDI, Busan 46083, Korea

<sup>3</sup>Korea Institute of Fisheries and Ocean Engineering, Busan 48508, Korea

<sup>4</sup>Graduate School of Global Fisheries, Pukyong National University, Busan 48513, Korea

16:10-16:30 OT-7 Species identification of chub mackerel schools by using multi-frequency

Woo Seok Oh<sup>\*</sup>, Euna Yoon<sup>2</sup>, Hyoungbeen Lee<sup>2</sup>, Gunchang Park, Sunyoung Oh, Sara Lee and Kyounghoon Lee<sup>1</sup>

Division of Fisheries Science, Chonnam National University, Yeosu 59626, Republic of Korea

<sup>1</sup>Department of Marine Production Management, Chonnam National University, Yeosu 59626, Republic of Korea.

<sup>2</sup>Fisheries Resources Research Center, National Institute of Fisheries Science, Tongyeong 53064, Korea

16:30-16:50 OT-8 Characteristics of appearance of cetaceans in the coastal waters of Korea using acoustics

Eunho Kim<sup>1\*</sup>, Jeongho Shin<sup>1</sup>, Yuna Cho<sup>1</sup> and Joon-taek Yoo<sup>1</sup>

<sup>1</sup>Cetacean Research Institute, National Institute of Fisheries Science, Ulsan, Korea

16:50-17:10 OT-9 Development trends of unmanned surface vehicle (USV) for ocean survey

Tae-Jong Kang<sup>1\*</sup>, Eun-Bi Min<sup>1</sup> and Du-Jin Hwang<sup>2</sup>

<sup>1</sup>Department of Fisheries Sciences, Chonnam National University, Yeosu 55024, Republic of Korea

<sup>2</sup>Department of Marine Production Management, Chonnam National University, Yeosu 55024, Republic of Korea

17:10-17:30 OT-10 A study on duct optimization of electric rim-driven propeller

Yong-Beom Pyeon<sup>1</sup>, Min-Ah Heo<sup>1</sup>, Jae-Hyun Bae<sup>2</sup>, Hyoung-Ho Kim<sup>3</sup> and Chang-Je Lee<sup>4\*</sup>

<sup>1</sup>Researcher, Korea Institute of Fisheries and Ocean Engineering, Busan 48508, Korea

<sup>2</sup>Researcher, Fisheries Engineering Research Division, National of Fisheries Science, Busan 46083, Korea

<sup>3</sup>Assistant Professor, School of Mechanical Engineering, Gyeongsang National University, Gyeongnam 52725, Korea

<sup>4</sup>Research Professor, Institute of Maritime Industry, Korea Maritime and Ocean University, Busan 49112, Korea

## ■ Fisheries and Ocean Technology (PT-1 ~ PT-16)

### PT-1

Design guidelines for floating finfish cage

Jihoon Lee<sup>1\*</sup>, Sua Park<sup>2</sup> and Minseo Park<sup>2</sup>

<sup>1</sup>Department of Marine Production Management, Chonnam National University, Yeosu 59626, Republic of Korea

<sup>2</sup>Department of Fisheries Sciences, Chonnam National University, Yeosu 59626, Republic of Korea

### PT-2

Shucking processability of *bivalvia* shellfish according to acting pressure change

Ok-Sam Kim<sup>1\*</sup>, Doo-Jin Hwang<sup>1</sup> and Geum-Bum Yoo<sup>2</sup>

<sup>1</sup>Professor, School of marine Technology, Chonnam National University, Yeosu 59626, Korea

<sup>2</sup>Chairman, Yuil Industry Company, Tongyoung 53002, Korea

### PT-3

Development of Korea standard(KS) for digital abalone weight sorter

Bo-Kyu Hwang, Ho-Young Chang and Min-Son Kim

Marine Production System Major, Kunsan National University, Gunsan 54150, Republic of Korea

### PT-4

Field adaptability results for *Sulculus diversicolor supertexta* habitat reefs in the coast of Jeju Island

Nam-Hee Heo<sup>1</sup>, Keun-Hyoung Kim<sup>1</sup>, Byuong-Yeob Kim<sup>2</sup> and Suk-Jong Kim<sup>2\*</sup>

<sup>1</sup>Department of Fishery, Jeju National University, Jeju 63243, Republic of Korea

<sup>2</sup>Department of Ocean Science, Jeju National University, Jeju 63243, Republic of Korea

### PT-5

Fish species recognition of chub mackerel and jack mackerel using deep learning-based YOLOv4

Young-Joon Yang, Heui-Chun An, Min-Ah Heo, Min-Soo Park and Yong-Beom Pyeon

Korea Institute of Fisheries and Ocean Engineering, Busan 48508, Republic of Korea

#### **PT-6**

A study on partial improvement of small yellow croaker drift gill nets fishing gear

Keun-Hyoung Kim<sup>1\*</sup>, Nam-Hee Heo<sup>1</sup>, Kyoung-Bum Kang<sup>2</sup>, Ji-Don Kum<sup>3</sup>, Sang-Gyu Paik<sup>3</sup>, Dae-Sun Son<sup>3</sup> and Suk-Jong Kim<sup>1</sup>

<sup>1</sup>Department of Fishery, Jeju National University, Jeju-do 63243, Republic of Korea

<sup>2</sup>Jeju Special Self Governing Provincial Council, Jeju-do 63119, Republic of Korea

<sup>3</sup>HAERANG Technology and Policy Research Institute 105, Gyeonggi-do 16229, Republic of Korea

#### **PT-7**

A fundamental study on the development of AI algorithms to estimate the catch in small yellow croaker drift gill net fishing

Keun-Hyoung Kim<sup>1\*</sup>, Byuong-Yeob Kim<sup>1</sup>, Ji-Don Kum<sup>2</sup>, Sang-Gyu Paik<sup>2</sup>, Dae-Sun Son<sup>2</sup>, Hyun-Ji Lee<sup>2</sup>, Jun-Ha Song<sup>2</sup>, Woo-Sik Park<sup>2</sup> and Suk-Jong Kim<sup>1</sup>

<sup>1</sup>Department of Ocean Science, Jeju National University, Jeju-do 63243, Republic of Korea

<sup>2</sup>HAERANG Technology and Policy Research Institute 105, Gyeonggi-do 16229, Republic of Korea

#### **PT-8**

Analysis of the effect of changes in the abundance of food on hairtail abundance in Korean waters

Euna-A Song, Kwang-II Kim and Solomon Amoah Owiredu

Department of Marine Industrial & Maritime Police, Jeju National University, Jeju 63243, Korea

#### **PT-9**

Result of drying speed test of fabric for fishery sea anchor

Kyung-Jin Ryu<sup>1\*</sup>, Nam-Gu Kim<sup>2</sup>, Gwang-Min Yu<sup>2</sup>, Yoo-Won Lee<sup>3</sup> and Hyung-Seok Kim<sup>3</sup>

<sup>1</sup>Training Ship, Pukyong National University, Busan 48516, Republic of Korea

<sup>2</sup>Department of Fisheries Physics, Pukyong National University, Busan 48516, Republic of Korea

<sup>3</sup>Division of Marine Production System Management, Pukyong National University, Busan 48516, Republic of Korea

#### **PT-10**

Analysis of fishing operation flow according to the fishing system and layout of the coastal improved stow fishing vessel

Min-Son Kim, Bo-Kuy Hwang and Ho-Young Chang

Marine Production System Major, Kunsan National University, Gunsan 54150, Republic of Korea

#### **PT-11**

A basic study on analysis of marine accidents for fishing ship in South Korea

Sang-A Park<sup>1</sup>, Deuk-Jin Park<sup>2\*</sup> and Tae-Yeon Kim<sup>2</sup>

<sup>1</sup>Department of Fishery of Physics, Graduated School, Pukyong National University, Busan 48516, Republic of Korea

<sup>2</sup>Division of Marine Production System Management, Pukyong National University, Busan 48516, Republic of Korea

#### **PT-12**

Analysis of engine performance and exhaust emission characteristics of C.P.P. propulsion ship with operating mode

Sang-Am Kim<sup>1</sup> and Woo-Gyeong Wang<sup>2\*</sup>

<sup>1</sup>Training Ship, Chonnam National University, Chonnam 59626, Korea

<sup>2</sup>Department of Power System Engineering, Chonnam National University, Chonnam 59626, Korea

#### **PT-13**

A case study on economic analysis of electronic monitoring(EM) and applicability to Korea

Kwang-Nam Lee<sup>1</sup>, Won-Sil Choi<sup>1</sup>, Jin-Ho Jung<sup>1</sup> and Kyoungsoon Lee<sup>2\*</sup>

<sup>1</sup>Ocean and Fisheries Policy Institute, The Korean Society of Ocean Policy, Seoul 06367, Republic of Korea

<sup>2</sup>Department of Marine Production Management, Chonnam National University, Yeosu 59626, Republic of Korea

#### **PT-14**

Acoustic scattering characteristics of Antarctic silverfish (*Pleuragramma antarcticum*)

Sara Lee, Wooseok Oh, Huongsul Na<sup>1</sup>, Wujun Son<sup>2</sup> Jeong-Hoon Kim<sup>3</sup> and Kyoungsoon Lee<sup>4</sup>

Division of Fisheries Science, Chonnam National University, Yeosu 59626, Korea

<sup>1</sup>Division of Polar Ocean Sciences Korea Polar Research Institute, Incheon, 21990, Korea

<sup>2</sup>Division of Polar Ocean Sciences Korea Polar Research Institute Incheon Korea University of Science and Technology Daejeon, 34113, Korea

<sup>3</sup>Division of Life Sciences, Korea Polar Research Institute, Incheon, Republic of Korea

<sup>4</sup>Department of Marine Production Management, Chonnam National University, Yeosu 59626, Korea

**PT-15**

A study on the marine mammal bycatch reduction buoy line system in coastal trap fishery

Kyu-Suk Choi<sup>\*</sup>, Bong-Jin Cha, Da-Young Kang and Tae-Suk Kim

Fisheries Engineering Division, National Institute of Fisheries Science, Republic of Korea

**PT-16**

Study on the mesh selectivity of model trawl cod-end by three types of mesh shapes and sizes

Sena Baek<sup>1\*</sup>, Seonghun Kim<sup>2</sup> and Kyung-Jin Ryu<sup>3</sup>

<sup>1</sup>Division of Fisheries Physics, Pukyong National University, Busan, Korea

<sup>2</sup>Division of Marine Science and Technology, Pukyong National University, Busan, Korea

<sup>3</sup>Training Ship, Pukyong National University, Busan, Korea



# 학 술 대 회 장 소 안 내

KOFFST International Conference 2022	
<b>BEXCO 제1전시장 2F, 3F</b>	<ul style="list-style-type: none"> <li>• 개회식, 공동초청특강 : 벅스코 제1전시장 2층, 214호</li> <li>• 학회별 총회 및 구두 발표 : 벅스코 제1전시장 3층, 311~317호 및 2층, 214호</li> <li>• 포스터 발표 : 벅스코 제1전시장 2층, 211호~213호               <ul style="list-style-type: none"> <li>- 포스터 규격 : 80cm x 110cm (가로 x 세로)</li> <li>- 부착 및 철거시간 : 11월 4일(금) 10시까지 부착, 11월 4일(금) 17시 이후 철거</li> <li>- 발표자 본인께서 부착 및 회수하셔야 합니다.</li> </ul> </li> </ul>

○ 11 월 4 일 행사장 안내 : BEXCO 제 1 전시장

- (1) 개회식, 공동초청특강, 간담회 : 214~217호 / 한국수산과학총연합회 총회 : 214호  
 (2) 구두발표 학술대회장 : 311~317호 / 포스터발표 : 211호~213호

