

2023년도 한국수산해양기술학회 추계총회 및 학술발표대회 일정 안내

일 시	2023년 11월 3일(금) 13:00
장 소	부산 BEXCO 제1전시장 3층 316호
주 최	한국수산과학총연합회
주 제	Fisheries Science in the Era of the Fourth Industrial Revolution (4차산업혁명시대의 수산과학)

행 사 일 정		
시 간	내 용	사회자/좌장
12:40~13:00	등 록 Registration	
13:00~13:30	총회 General assembly	이유원(부경대학교) Yoo-Won Lee
13:30~14:30	Part I 구두발표 Oral presentation part I	차봉진(국립수산과학원) Bong-Jin Cha
14:30~14:40	Break time	
14:40~15:55	Part II 구두발표 Oral presentation part II	이성일(부경대학교) Sung-II Lee
15:55~16:05	Break time	
16:05~17:20	Part III 구두발표 Oral presentation part III	김민선(군산대학교) Min-Son Kim
17:20~17:30	폐 회 Closing session	

※ 현장 상황에 따라 세부 일정이 변경 될 수 있습니다.

2023년도 한국수산해양기술학회 추계 학술발표대회 세부일정

■ Fisheries and Ocean Technology (OT-1 ~ OT-14)

November 3rd, 2023 (Friday)

#316, Exhibition center 1, BEXCO

∴ Oral presentation part I

#316

Chairperson: Bong-Jin Cha (National Institute of Fisheries Science)

13:30-13:45 OT-1 Development of automatic assembling system of gillnet

Heui-Chun An^{*}, Yong-Beam Pyeon, Min-Ah Heo and Kuk-Jin Cho

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

13:45-14:00 OT-2 Study of computational fluid dynamics characteristics according to the nozzle shape of shellfish dredge fishery

Jae-hyun Bae^{1*}, Hyun-Su Jo² and Hyung-Seop Kim³

¹Fisheries Engineering Division, National Institute of Fisheries Science, Republic of Korea

²Dept. of School of Marine Industrial Transportation Science and Technology, Kunsan National University, Republic of Korea

³Dept. of Marine Biological Resource and Aquaculture, Kunsan National University, Republic of Korea

14:00-14:15 OT-3 A study for the fishing effect using a gill net on a cube-type reef with eight inner blades in Oeyeondo

Eun-Bi Min^{1*}, Tae-Jong Kang¹ and Doo-Jin Hwang²

¹Department of Fisheries Science, Chonnam National University, Yeosu 59626, Korea

²Department of Marine Production Management, Chonnam National University, Yeosu 59626, Korea

- 14:15-14:30 OT-4 A study on the resistance reduction for a coastal stow net using the simulations and the model experiments
Sua Park¹, Jihoon Lee^{2*}, Minseo Park¹ and Daeyeon Cho¹
¹Department of Fisheries Sciences, Chonnam National University, Yeosu 59626, Republic of Korea
²Department of Marine Production Management, Chonnam National University, Yeosu 59626, Republic of Korea

∴ Oral presentation part II

#316

Chairperson: Sung-II Lee (Pukyong National University)

- 14:40-14:55 OT-5 Species composition and community structure of aquatic organisms caught by the coastal beam trawl in Gomso Bay, Jeollabuk-do

Young-Hwan Joo^{1*}, Sang-Chul Yoon², Ji-Hoon Choi² and Hyun-Su Jo³
¹Department of Fisheries Science, Kunsan National University, Gunsan 54150, Korea
²Fisheries Resources Research Division, National Institute of Fisheries Science, Busan 46083, Korea
³Division of Marine Industry-Transportation Science and Technology, Kunsan National University, Gunsan 54150, Korea
- 14:55-15:10 OT-6 CPUE standardization of sailfin sandfish (*Arctoscopus japonicus*) caught by the East Sea Mid-sized Danish seine fishery in Korean waters

Na-Young Jung^{1*} and Sung-II Lee²
¹Division of Fisheries Physics, Pukyong National University, Busan 48516, Republic of Korea
²Division of Marine Production System Management, Pukyong National University, Busan 48516, Republic of Korea

- 15:10-15:25 OT-7 Species identification and tempo-spatial distribution of anchovy using by multi-frequeuncy
- Geunchang Park^{1*}, Wooseok Oh², Sunyoung Oh¹, Sa-La Lee¹, Eu-Na Yoon³, Hyoungbeen Lee³ and Kyounghoon Lee⁴
- ¹Department of Fisheries Physics, Pukyong National University, Busan 48513, Republic of Korea
- ²Institute of Low-Carbon Marine Production Technology Pukyong National University, Busan 48513, Republic of Korea
- ³Fisheries Resources Research Center, National Institute of Fisheries Science, Tongyeong 53064, Republic of Korea
- ⁴Division of marine production system management, Pukyong National University, Busan 48513, Republic of Korea
- 15:25-15:40 OT-8 Density estimating comparison of Antarctic krill (*Euphausia superba*) in South Shetland island by using 2 post-processing analysis methods
- Sara Lee^{1*}, Inwoo Han², Sangdeok Chung³, Wooseok Oh⁴ and Kyounghoon Lee⁵
- ¹Department of Fisheries Physics, Pukyong National University, Busan 48513, Korea
- ²Cetacean Research Institute, National Institute of Fisheries Science, Ulsan 44780, Korea
- ³Division of Distant Water Fisheries Resources, National Institute of Fisheries Science, Busan 46083, Korea
- ⁴Institute of Low-Carbon Marine Production Technology, Pukyong National University, Busan 48513, Korea
- ⁵Division of Marine Production System Management, Pukyong National University, Busan 48513, Korea
- 15:40-15:55 OT-9 Real-time monitoring system for marine life in the vicinity of nuclear power plants
- Tae-Jong Kang^{1*}, Eun-Bi Min¹ and Doo-Jin Hwang²
- ¹Department of Fisheries Sciences, Chonnam National University, Yeosu 55024, Republic of Korea
- ²Department of Marine Production Management, Chonnam National University, Yeosu 55024, Republic of Korea

Chairperson: Min-Son Kim (Kunsan National University)

16:05-16:20 OT-10 Towards safer fishing vessels: Utilization of digital technologies for safe fishing vessel design and operation

Kwi-Yeon Koo^{1*}, Hyung-Ju Kim² and Soo-Yeon Kwon³

¹Department of Microsystems, University of South-eastern Norway, Borre 3184, Norway

²Department of Mechanical and Industrial Engineering, Norwegian University of Science and Technology, Trondheim 7034, Norway

³Safety Research Department, Korea Maritime Transportation Safety Authority, Sejong-City 30100, Republic of Korea

16:20-16:35 OT-11 A study on the co-existence of offshore wind and fishing activities

Yu-Jeong Mun^{1*} and Cho-Young Jung²

¹Department of Fisheries Science, Kunsan National University, Kunsan 54150, Republic of Korea

²Division of Marine Industry-Transportation Science and Technology, Kunsan National University, Kunsan 54150, Republic of Korea

16:35-16:50 OT-12 Analyzing fatalities in commercial trap fishing boats: Estimating reduction rates based on accident analysis and preventive guidelines

Su-Hyung Kim¹, Kyung-Jin Ryu¹, Seung-Hyun Lee¹, Kyoung-Hoon Lee², Seong-Hun Kim² and Yoo-Won Lee^{2*}

¹Training ship, Pukyong National University, Busan 48513, Korea

²Division of Marine Production System Management, Pukyong National University, Busan 48513, Korea

16:50-17:05 OT-13 A study on the improve to required competences for fishing vessel officers through improvement of the standards of recognized education and training institutes

Kyung-Jin Ryu^{1*}, Su-Hyung Kim¹, Yoo-Won Lee² and Hyung-Seok Kim²

¹Training ship, Pukyong National University, Busan 48516, Republic of Korea

²Division of Marine Production System Management, Pukyong National University, Busan 48516, Republic of Korea

17:05-17:20 OT-14 A study on fishing ship accident analysis using Bayesian networks

Sang-A Park¹, Deuk-Jin Park^{2*}, Hee-Jin Lee² and Su-Hyung Kim³

¹Department of Fishery of Physics, Graduated School, Pukyong National University, Busan 48513, Republic of Korea

²Division of Marine Production System Management, Pukyong National University, Busan 48513, Republic of Korea

³Training Ship, Pukyong National University, Busan 48513, Republic of Korea

■ Fisheries and Ocean Technology (PT-1 ~ PT-18)

PT-1

A study on the effect of additional resistance on engine power in towing fishing gear of a bottom trawl ship

Woo-Gyeong Wang

Department of Power System Engineering, Chonnam National University, Chonnam 59626, Korea

PT-2

Development of a safety system for Haenyeo (Korean traditional fisher women diver) using a wireless network and smart working tool

Taesik Kim¹, Young-Woon Song¹, Juhwan Kim², Meungsuk Lee³ and Son-Cheol Yu^{1*}

¹Department of convergence IT Engineering, POSTECH, Pohang 37673, Republic of Korea

²Robot Center, Samsung Research, Samsung Electronics, Seoul 06765, Republic of Korea

³Interactive Robotics R&D Division Human-centered Mechatronics Research Center, KIRO, Pohang 37666, Republic of Korea

PT-3

Basic study on the sinking material improvement for offshore small yellow croaker drift gill net fishing gear

Keun-Hyoung Kim^{1*}, Kyoung-Bum Kang², Myung-Sung Koo³, Jong-Bum Kim⁴, Nam-Hee Heo¹ and Suk-Jong Kim¹

¹Department of Fishery, Jeju National University, Jeju-si, A-ra 2 dong, Jeju-do 63243, Republic of Korea

²Jeju Special Self Governing Provincial Council, Munyeon-ro, Jeju-si, Jeju-do 63119, Republic of Korea

³Fisheries Engineering Research Division, National Institute of Fisheries Science, Busan 46083, Republic of Korea

⁴Center leader, Korea Fisheries Infrastructure Promotion Association, Incheon 22348, Korea

PT-4

Analysis of risk factors for gillnet fishing in floating offshore wind farms using AHP technique

Jong-Kap Ahn¹, You-Jin Park², Yu-Jin Jeong² and Young-Su Ahn^{1*}

¹Institute of Marine Industry, Gyeongsang National University, Tongyeong 53064, Republic of Korea

²Department of Business Administration, Yonsei University, Wonju 26493, Republic of Korea

PT-5

Density distribution of giant jellyfish (*Nemopilema nomurai*) using acoustic and sighting survey

Sunyoung Oh^{1*}, Kyoung-Yeon Kim², Sara Lee¹, Geunchang Park¹, Wooseok Oh³ and Kyounghoon Lee⁴

¹Department of Fisheries Physics, Pukyong National University, Busan 48513, Republic of Korea

²Oceanic Climate and Ecology Research Division, National Institute of Fisheries Science, Busan 46083, Republic of Korea

³Institute of Low-Carbon Marine Production Technology, Pukyong National University, Busan 48513, Republic of Korea

⁴Division of Marine Production System Management, Pukyong National University, Busan 48513, Republic of Korea

PT-6

Species composition and community structure of aquatic organisms caught by the shrimp dredge in Gomso Bay, Jeollabuk-do

Young-Hwan Joo^{1*}, Sang-Chul Yoon², Ji-Hoon Choi² and Hyun-Su Jo³

¹Department of Fisheries Science, Kunsan National University, Gunsan 54150, Korea

²Fisheries Resources Research Division, National Institute of Fisheries Science, Busan 46083, Korea

³Division of Marine Industry-Transportation Science and Technology, Kunsan National University, Gunsan 54150, Korea

PT-7

Domestic market and assembly status of gillnet fishing gear

Min-Hee Park, Yong-Beam Pyeon, Min-Ah Heo, Min-Su Park and Heui-Chun An*

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

PT-8

Test survey using a broadband echo sounder and bottom trawl to examine acoustical species identification technique

Seung-Mi Lee¹, Min-Sook Han¹, Ho-Young Jang², Min-Seon Kim² and Bo-Kyu Hwang²

¹Department of Fisheries Science at Kunsan National University, Republic of Korea

²Marine and Fisheries Management Major at Kunsan National University, Republic of Korea

PT-9

Understanding the seasonal status of fisheries resource in the East China Sea by using bottom trawl

Jung-Kwan Lee^{1*}, Geun-Chang Park², Byeong-Gwon Lim³, Dae-Jin Kim⁴, Hyoung-Ho Shin⁴, Doo-Jin Hwang⁴ and Kyounghoon Lee⁵

¹Division of Fisheries Science, Chonnam National University, Yeosu 59626, Republic of Korea

²Department of Fisheries Physics, Pukyong National University, Busan 48513, Republic of Korea

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PT-10

Development of poly (butylene adipate-co-butylene succinate-co-ethylene adipate-co-ethylene succinate) (PBEAS) net twine as biodegradable fishing gear

Subong Park^{1*}, Bongseong Bae², Bong-Jin Cha², YunJin Kim³ and HyoWon Kwak³

¹Division of Marine Production System Management, Pukyong National University, Busan 48513, Republic of Korea

²Fisheries Engineering Research Division, National Institute of Fisheries Science, Busan 46083, Republic of Korea

³Department of Agriculture, Forestry and Bioresources, College of Agriculture & Life Sciences, Seoul National University, Seoul 08826, Republic of Korea

PT-11

The comparison of catch performance of available fish species with different net height for trawl net

Jung-Mo Jung^{*}, Hyun-Young Kim and Kyu-Suk Choi

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

PT-12

Fishing operation characteristics of coastal composite fishing vessels exclusive to long arm octopus (*Octopus minor*) fishing in Korea

Min-Son Kim¹, Bo-Kyu Hwang¹, Ho-Young Chang¹, Min-Suk Han² and Seung-Mi Lee²

¹Ocean & Fisheries Management Major, Kunsan National University, Gunsan 54150, Republic of Korea

²Department of Fisheries Science Graduate School, Kunsan National University, Gunsan 54150, Republic of Korea

PT-13

A study on the marine mammal bycatch reduction based on buoy material in coastal trap fishery

Kyu-Suk Choi¹, Bong-Jin Cha¹, Sam-Gwang Cho², Hyun-Young Kim¹, Pyeong-Kwan Kim¹, Gyeom Heo¹ and Jung-Mo Jung¹

¹Fisheries Engineering Division, National Institute of Fisheries Science, Republic of Korea

²Advanced Aquaculture Research Center, National Institute of Fisheries Science, Republic of Korea

PT-14

Stock assessment of small yellow croaker caught by multiple fisheries in Korean waters

Eun-Gyu Kim^{1*} and Sung-Il Lee²

¹Division of Fisheries Physics, Pukyong National University, Busan 48516, Republic of Korea

²Division of Marine Production System Management, Pukyong National University, Busan 48516, Republic of Korea

PT-15

Underwater stability according to the shape of giant octopus pots on the east coastal sea in Korea

Seonghun Kim^{1*}, Hyungseok Kim¹, Pyungkwan Kim², Sena Baek³ and Taekyun Kim³

¹Division of Marine Production System Management, Pukyong National University, Busan 48513, Korea

²Fisheries Engineering Division, National Institute of Fisheries Science, Busan 46083, Korea

³Department of Fisheries Physics, Pukyong National University, Busan 48513, Korea

PT-16

A study on the conger eel (*Conger myriaster*) catching mechanism according to the shape of the hook in longline shapes and sizes

Sena Baek^{1*}, Namgu Kim¹, Taegyun Kim¹, Seung-Hyun Lee¹ and Seonghun Kim²

¹Department of Fisheries Physics, Pukyong National University, Busan 48513, Korea

²Division of Marine Production System Management, Pukyong National University, Busan 48513, Korea

PT-17

Characterization of seawater sterilizers using carbon nanotube fiber UV lamps

Jae-hyun Bae

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

PT-18

A study on the estimation of the catch of large purse seine boat by combining AIS data and TAC catch data

Eun-A Song¹, Solomon Amoah Owiredu¹, Byeong-Yeob Kim¹, Kyoung-Hoon Lee², Sang-Lok Yoo and Kwang-II Kim^{1*}

¹Department of Fishery, Jeju National University, Jeju 63243, Korea

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³Director of Research Institute, Future Ocean IT, Jeju 63243, Korea

학 술 대 회 장 소 안 내

BEXCO 제1전시장 2F, 3F	<ul style="list-style-type: none"> • 개회식, 공동초청특강 : 벅스코 제1전시장 2층, 214호 • 학회별 총회 및 구두 발표 : 벅스코 제1전시장 2층, 211호~214호 및 3층, 314호~317호 • 포스터 발표 : 벅스코 제1전시장 2층, 217호~218호 <ul style="list-style-type: none"> - 포스터 규격 : 80cm x 110cm (가로 x 세로) - 부착 및 철거시간 : 11월 3일(금) 10시까지 부착, 11월 3일(금) 17시 이후 철거 - 발표자 본인께서 부착 및 회수하셔야 합니다. - 포스터 게시는 부착 시간에 반드시 부착 유지하여 포스터가 누락되는 일이 없도록 협조 바랍니다. 포스터 발표상 심사에 반영됩니다. <p>(해당 기간 내 미부착으로 인한 불이익이 발생할 수 있습니다.)</p>
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○ 11 월 3 일 행사장 안내 : BEXCO 제 1 전시장

(1) 개회식, 공동초청특강 : 214호 / 한국수산과학총연합회 총회 : 214호

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