

6A1-T2.1

Date 6 (Wed.) November 2024

Time 16:00~17:40

Location Mayflower 1

6A1-T2.1-1 **Numerical Modelling Techniques of a Rotating Circular Cylinder near a Plane Wall**

16:00~16:25 *Sang-Eui Lee (Changwon National University)*

6A1-T2.1-2 **A Method for the Automatic Generation of Hull Form Surfaces Based on MLP (Multi-Layer Perceptron) Considering Design Requirements**

16:25~16:50 *Jin-Hyeok Kim, Myung-Il Roh* and In-Chang Yeo (Seoul National University)*

6A1-T2.1-3 **Optimal Hull Form Design using Machine Learning Resistance Estimation Model**

16:50~17:15 *Eunyoung Son, Min-Jae Oh* and Dayeon Jeong (University of Ulsan), Myung-Soo Kim and Yoo-Chul Kim (KRISO)*

6A1-T2.1-4 **Automated Hull Form Generation for Stability Analysis**

17:15~17:40 *Dayeon Jeong, Min-Jae Oh* and Naeon Kim (University of Ulsan), Jinyoung Park and Jeong-Youl Lee (Korean Register)*

6B1-T6.1

Date 6 (Wed.) November 2024

Time 16:00~17:40

Location Mayflower 2

6B1-T6.1-1 **Samsung Heavy Industries' Advancing Unmanned System (Digital Transformation System Of The Analog Gauge Value Using Ai)**

16:00~16:25 *Kyung-Ryeong Pak*, Kyung-Won Bae, Bum-Hyun Lim, Hee-Jung Kim, and Young-Su Choi (Samsung Heavy Industries)*

6B1-T6.1-2 **Streamlining Hull Thickness Measurement Reporting using Unmanned Aerial Vehicles**

16:25~16:50 *Georgios Koutsoumpas* and Chris Leontopoulos (ABS), Stefano Zampieri (Flyability)*

6B1-T6.1-3 **Samsung Heavy Industries' Advancing Unmanned System (CBM and Robot)**

16:50~17:15 *Kyung-Won Bae, Kyung-Ryeong Pak*, Bum-Hyun Lim, and Chang-Yeol Jee (Samsung Heavy Industries)*

6B1-T6.1-4 **Maintenance Work Packaging (MWP) Based AR Remote Maintenance in Maritime Network**

17:15~17:40 *Youngsu Kim, Kyungho Lee*, Youngwook Nam, and Changhee Kim (Inha University)*

6C1-T1

Date 6 (Wed.) November 2024

Time 16:00~17:40

Location Mayflower 3

- 6C1-T1-1 **Establishing Safety Zones for Ammonia Bunkering Operations: A Quantitative Risk Assessment**
16:00~16:25 *Insik Hwang*, Peilin Zhou, Byongug Jeong, Haibin Wang, Mujeeb Mughadar Palliparambil, and Hayoung Jang (University of Strathclyde)*
- 6C1-T1-2 **Certification of Alternative Fuel Designs**
16:25~16:50 *Louise Wright*, Davies Paul and Kyung-Tae Moon (Lloyd's Register)*
- 6C1-T1-3 **Regulatory Gap Analysis For Risk Assessment Of Ammonia-Fuelled Ships**
16:50~17:15 *Hayoung Jang (Europe-Korea Marine and Ocean Engineers Association), M.P. Mujeeb-Ahmed*, Haibin Wang and Insik Hwang (University of Strathclyde), Chybyung Park and Byongug Jeong (Europe-Korea Marine and Ocean Engineers Association, University of Strathclyde), Peilin Zhou (Europe-Korea Marine and Ocean Engineers Association, Harbin Institute of Technology), Rima Mickeviciene (Klaipeda University)*
- 6C1-T1-4 **Comparative Quantitative Risk Assessment (QRA) of LNG, Methanol, and Ammonia Fuelled Container Ship**
17:15~17:40 *Kyung-Tae Moon*, Davies Paul and Louise Wright (Lloyd's Register)*

6D1-T2.2

Date 6 (Wed.) November 2024

Time 16:00~17:40

Location Braford

6D1-T2.2-1 **Sloshing Flow Characteristics and Optimal Tank Design Guidance using Single Impact Wave**

16:00~16:25

Seongmin Woo(Samsung Heavy Industries, KAIST), Rae Hyoung Yuck and Yong Chul Lee (Samsung Heavy Industries), Daegyoun Kim (KAIST)*

6D1-T2.2-2 **Sloshing-Induced BOG/BOR in Cryogenic Storage Tanks with Integrated Multiphase-Thermal Simulations Incorporating Evaporation Dynamics**

16:25~16:50

Se-Min Jeong (Chosun University), Gyu-Mok Jeon and Jong-Chun Park (Pusan National University)*

6D1-T2.2-3 **Multiphase-Thermal Simulation for Estimating Boil-Off Gas (BOG)/Boil-Off Rate (BOR) Based on Filling Level of C-Type LNG Fuel Tank**

16:50~17:15

Yong-Dae Jung and Jong-Chun Park (Pusan National University)

6D1-T2.2-4 **Multiphase-Thermal Flow Simulation of Initial Cool-Down Inside a Membrane-Type LNG Storage Tank Using LNG Spray Injection with Vaporization**

17:15~17:40

Hee-Su Kim, Gyu-Mok Jeon and Jong-Chun Park (Pusan National University)*

6E1-T7

Date 6 (Wed.) November 2024

Time 16:00~16:50

Location Standish

6E1-T7-1 **Technical Feasibility of Liquid Hydrogen Transfer and Vaporization in Import Terminals**

16:00~16:25 *Jungwoog Kim and Daejun Chang (KAIST)*

6E1-T7-2 **A Research on a 3.5kW Class Inverter Applying Multi-Level Switching Technology to Improve Power Quality**

16:25~16:50 *Dong-Wook Kim* (Research Institute of Medium and Small Shipbuilding), Duck-Shick Shin (Korea Electronics Technology Institute)*

6F1-T4

Date 6 (Wed.) November 2024

Time 16:00~16:50

Location Winslow

6F1-T4-1 **Estimating the Remaining Fatigue Lifetime through Residual Stress Monitoring**

16:00~16:25 *Georgia Stamou, Spyros Angelopoulos, Aphrodite Ktena, and Evangelos Hristoforou (National Technical University of Athens), Vassilis Zouzoulas*, Chris Leontopoulos and Spyros Hirdaris (ABS)*

6F1-T4-2 **Comparative Study on Fatigue Performance of Hybrid Laser Arc Weldment for High Manganese Steel**

16:25~16:50 *Ji-Hoon Kim and Myung-Hyun Kim* (Pusan National University), Won-Chan Jeong (Hyundai Heavy Industries), In-Sung Choi and Kwang-Hyeon Lee (Korea Institute of Machinery and Materials)*

6F1-T4-2 **Effect of Crack Tip Constraint in the SENT and SENB Test Specimens on the Fracture Behavior of Cryogenic Steel at HAZ-notched Weld Joint**

16:50~17:15 *Sung-Kyu Cho, Ho-Sang Jang and Hyung-Goun Joo (Hyundai-Steel Company), Joon-Mo Choung* (Inha University)*

6F1-T4-4 **Study on Applicability of Cryogenic Steel Welding for Cryogenic Liquefied Cargo Containment Tanks**

17:15~17:40 *Ho-Sang Jang, Sung-Kyu Cho and Hyung-Goun Joo* (Hyundai-Steel Company)*

7A1-T2.3

Date 7 (Thu.) November 2024

Time 13:40~15:20

Location Mayflower 1

7A1-T2.3-1 **Convective Flow and Thermal Stratification in the Cryogenic Storage Tank**

13:40~14:05 *Sung-Woong Choi (Gyeongsang National University)*

7A1-T2.3-2 **Application of Physics-Informed Neural Network to Reconstruct Velocity and Pressure of Wave-In-Deck Loading from Particle Image Velocimetry Data**

14:05~14:30 *Tien Trung Duong, Hyun Jung Park and Kwang Hyo Jung* (Pusan National University)*

7A1-T2.3-3 **Systematic Hydrodynamic Studies of Domestic Vessels for Cleaner and Quieter Operation**

14:30~14:55 *Mohammed Islam*, Fatima Jahra, Robert Gash, and Ayhan Akinturk (National Research Council of Canada)*

7A1-T2.3-4 **Hull Form Transform and Optimization based on Convolutional Autoencoder**

14:55~15:20 *Jeongbeom Seo and Inwon Lee* (Pusan National University)*

7B1-T6.2

Date 7 (Thu.) November 2024

Time 13:40~14:55

Location Mayflower 2

7B1-T6.2-1 **Research on AIS Data-based Representative Navigation Route Decision Technique to Establish Wave Scatter Data for Each Route**

13:40~14:05 *Min-Su Kim* and Sang-Yeob Kim (Korean Register)*

7B1-T6.2-2 **An Ai Model for the Prediction of a Kamsarmax Bulk Carrier Fuel Consumption**

14:05~14:30 *Mingyang Zhang (Espoo), Pentti Kujala (Estonian Maritime Academy), Nikolaos Tsoulakos (Laskaridis Shipping Co. Ltd.), Spyros Hirdaris* (ABS)*

7B1-T6.2-2 **Ship Engine Failure Detection and Predictive Maintenance through Univariate and Multivariate Time Series Prediction**

14:30~14:55 *Youngseo Park, Juhyang Lee and Sewon Kim (Sejong University)*

7C1-T1

Date 7 (Thu.) November 2024

Time 13:40~15:20

Location Mayflower 3

7C1-T1-1 **Safety Evaluation on Ammonia-Fuelled Short Sea Ferry:
Gas Dispersion Analysis through Vent Mast**

13:40~14:05 *Injun Yang**, *Hayoung Jang*, *M.P. Mujeeb-Ahmed*, *Insik Hwang*, *Haibin Wang*,
Byongug Jeong, and *Peilin Zhou (University of Strathclyde)*

7C1-T1-2 **The Development of A Simulation Technique of Oceanic
Spread from Accidental Release of Eco-Friendly Ship Fuel**

14:05~14:30 *Seulgi Lee*, *Sungsu Lee**, and *Jeong-ah Um (Chungbuk National University)*

7C1-T1-3 **Using Gas Dispersion Analysis to Inform Design and
Mitigation Measures for Maritime Vessels using Alternative
Fuels**

14:30~14:55 *Nikkii Ng (Lloyd's Register)*

7C1-T1-4 **Study on The Application of a Simulation Technique of
Oceanic Spread from Accidental Release of Eco-Friendly
Ship Fuel**

14:55~15:20 *Jeongah Um*, *Sungsu Lee** and *Seulgi Lee (Chungbuk National University)*

7D1-T2.4

Date 7 (Thu.) November 2024

Time 13:40~15:20

Location Bradford

7D1-T2.4-1 **CFD Prediction of Hydrodynamic Force on a BB2 Submarine Operating at Near the Free Surface with Different Depths**

13:40~14:05 *Doojin Jung*, Jinhae Kim, Deoksu Kim, and Youngbum Lee (Hanwha Ocean Co., Ltd)*

7D1-T2.4-2 **Enhancing Resistance Performance of the Skeg Shape for the Transportation Barge through Computational Design Approaches**

14:05~14:30 *Janghoon Seo and Dong-Woo Park* (Tongmyong University)*

7D1-T2.4-3 **Validation of the Pressure Variation Model based on Numerical Analysis using Model Test**

14:30~14:55 *Aeri Cho*, Thi Loan Mai, Namug Heo, Ji-Hye Kim, and Hyeon Kyu Yoon (Changwon National University), Jin-Yeong Park and Sung-Hoon Byun (KRISO)*

7D1-T2.4-4 **Evaluating the Accuracy of ISO15016 Method for Speed-Power Performance Assessment in Operating Ships with a Post-Correction Method for Speedlog**

14:55~15:20 *Do-Young Park*, Min-Woo Kim and Ju-Hyuck Choi (HD Heavy Industries)*

7E1-T6.3

Date 7 (Thu.) November 2024

Time 13:40~14:55

Location Standish

7E1-T6.3-1 **A Method for Pipe Auto-routing using Graph and Octree Structure**

13:40~14:05 *Min-Chul Kong, Myung-Il Roh*, In-Su Han, and Seong-Won Choi (Seoul National University), Mijin Kim, Jeoungyoun Kim and Inseok Lee (HD Korea Shipbuilding & Offshore Engineering Co., Ltd.)*

7E1-T6.3-2 **The Development of an Interface between 3D CAD Software and Classification Software for 3D Model-Based Approval**

14:05~14:30 *Hyeong-Rae Choi*, Jong-Oh Kim, Joung-Hyun Lee, and Ho-Gyun Park (Korean Register), Teuk-Gyu Jang (NAPA)*

7E1-T6.3-3 **How to give consistency from Design 3D Model to Shipbuilding Field**

14:30~14:55 *Luke (yang Ouk) Kim, Kyung Ho Lee* and Hyun Soo Kim (Inha University)*

7F1-T6.3

Date 7 (Thu.) November 2024

Time 13:40~14:30

Location Winslow

7F1-T6.3-1 **A Study on A Method of Treating Ship Washing Wastewater using Robots as a Means of Removing Marine Biofouling Organisms**

13:40~14:05 *Sang-Ho Park* and Man-Soo Kim (S&SYS), Jun-Hyuk Yang (KOMERI)*

7F1-T6.3-2 **Hull Management- AFS's Role in Reduction of GHG Emissions and Biofouling Management**

14:05~14:30 *Heather Hughes* and Sahan Abeysekara (Lloyd's Register)*

7A2-T2.5

Date 7 (Thu.) November 2024

Time 16:00~17:40

Location Mayflower 1

7A2-T2.5-1 **Water Lubricated Bearings - An Alternative Design for Commercial Vessels**

16:00~16:25 *Chris Leontopoulos (ABS)*

7A2-T2.5-2 **A Comprehensive Exploration of Flaws Within Additive Manufacturing Processes in the Maritime Industry**

16:25~16:50 *Mario Augusto Lopes de Castro*, Adam Saxty, Martyn Wright, and Sean Murray (Lloyd's Register)*

7A2-T2.5-3 **Risk Assessment by 20Ft Container Drop Object on the Platform Installed on Top of on Deck LCO2 Storage Tank of Container Ship with OCCS Specifications**

16:50~17:15 *Hyeong-Ju Kim (HD Hyundai Samho)*

7A2-T2.5-4 **Development Of Risk Assessment Application For Dragging Anchor "Ikari-Ing" And Its Use For Accident Analysis**

17:15~17:40 *Harukuni Taguchi*, Hideki Miyazaki and Koki Kawamura (National Maritime Research Institute)*

7B2-T6.4

Date 7 (Thu.) November 2024

Time 16:00~18:05

Location Mayflower 2

7B2-T6.4-1 **Automatic Structural Safety Evaluation of Truss Structure Based on 3D CAD Modeling**

16:00~16:25 *Hyuk-Min Kwon (HD Hyundai Heavy Industries)*

7B2-T6.4-2 **An Utilisation of Ais Data on the Derivation of Trading Patterns for Fatigue Design Assessment and Fatigue Life Monitoring of Ships**

16:25~16:50 *Cong Nguyen*, Wei Shao, Shengming Zhang, and Hasan Ocakli (Lloyd's Register EMEA), Kie Hian Chua (Lloyd's Register)*

7B2-T6.4-3 **A Study on Signal Processing of Measurement Data on Real Ship Response for CBM+ of Hull Structure**

16:50~17:15 *Hye-Min Seong*, Jae-Young Choi and Keun-bok Song (HD Hyundai Heavy Industries), Kyoung-Tae Kim (Korean Register)*

7B2-T6.4-4 **Automation of Local Model by using Fegate for Ship and Generation of Structural Strength Prediction Model based on Machine Learning by using Simulation Data**

17:15~17:40 *Ho-Yong Jung * and Teuk-Jin Koh (Hanwha Ocean), ShinWoo Jang and JaeWook Ahn (Raonx Solutions)*

7B2-T6.4-5 **Innovative Approach for Evaluating Safety and Performance of Ship Hull Structures through Collaboration between Classification Societies, Shipyards, and Software Developers**

17:40~18:05 *Jaewook Ahn* and Joontae Jang (Raonx Solutions), Kibok Jang (Samsung Heavy Industries), Kwangcheol Ha (Lloyd's Register)*

7C2-T3

Date 7 (Thu.) November 2024

Time 16:00~18:05

Location Mayflower 3

7C2-T3-1 **Life Cycle Assessment on Various Hydrogen Supply Methods by Ocean Transportation**

16:00~16:25 *Gangnam Lee (Jeju National University), Kwanghyo Jung*, Hyun Park and Seongyun Shin (Pusan National University), Yangryul Choi and Eungkon Kim (XINNOS Co., Ltd)*

7C2-T3-2 **Comparative Study on Overall Efficiency of Ammonia Reforming for Fuel Cell Ships**

16:25~16:50 *Donghyun Oh* and Jae-Myoung Lee (Pusan National University)*

7C2-T3-3 **Quantifying the Impact of Environmental Regulations on the Economic Competitiveness of Solid Oxide Fuel Cells in Marine Applications**

16:50~17:15 *Lukas Kistner * and Kevin Koosup Yum (HD Hyundai Europe Research & Development Center)*

7C2-T3-4 **Development of MSR-based Nuclear Propulsion Ship**

17:15~17:40 *Jongwon Kim*, Sangmin Lee, Chewook Yim, Heesung Lee, and Hoki Lee (Samsung Heavy Industries)*

7C2-T3-5 **CFD Simulations of Self-Propulsion of a Bulk Carrier with Wind-Assisted Propulsion by OpenFOAM**

17:40~18:05 *Ivan Tomljenović and Nikola Vladimir* (University of Zagreb), Inno Gatin (In silico d.o.o)*

7D2-T2.6

Date 7 (Thu.) November 2024

Time 16:00~17:40

Location Bradford

7D2-T2.6-1 **Trajectory Optimization of an Underwater Glider: An MPC Approach**

16:00~16:25 *Evren Kagan Gursel (University of Strathclyde)*

7D2-T2.6-2 **Investigation Of Cavitating Flow And Induced Noise Characteristics Around Whale-Inspired Hydrofoils**

16:25~16:50 *R.I.A. Simanto, J.W. Hong, V.D. Pham, Y.J. Kim, and B.K. Ahn* (Chungnam National University)*

7D2-T2.6-3 **Experimental and Numerical Investigation of Twisted Hydrofoils in Cavitating Flow**

16:50~17:15 *Sinem ÖKSÜZ* (Piri Reis University, Yıldız Technical University), Onur USTA (National Defence University), Fahri ÇELİK (Yıldız Technical University)*

7D2-T2.6-4 **CFD based Design Optimization of Ducted Propeller in Open-Water Condition**

17:15~17:40 *Sang-Hyun Kim and Ji-Hye Kim* (Changwon National University)*

7E2-T8

Date 7 (Thu.) November 2024

Time 16:00~18:05

Location Standish

7E2-T8-1 **An Application of Efficient Structural Analysis in Time Domain to a Floating Wind Turbine**

16:00~16:25 *Young-Hoon Shin* and Seung-Jae Lee (National Korea Maritime and Ocean University), Min-Jun Lee (China University of Petroleum-Beijing)*

7E2-T8-2 **Scale-down Structure Test of Fairlead Chain Stopper for MW-class Floating Wind Turbine System**

16:25~16:50 *Chang-Yong Song*, Min-Seok Cheong, Joo-Young Lim, Shin-Woo Park, and Mahardika Rizki Pynasti (Mokpo National University)*

7E2-T8-3 **Inter-Array Cabling Methods for a 12MW Floating Offshore Wind Turbine**

16:50~17:15 *Daseul Jeong*, Chunsik Shim, Kangho Kim, Jiwoo Kim, Seunghwan Oh, and Min Suk Kim (Mokpo National University)*

7E2-T8-4 **IECRE Certification of Marine Energy Technologies**

17:15~17:40 *Winston D'Souza (Lloyd's Register)*

7E2-T8-5 **3D URANS Modeling of Simultaneous Wave and Current Actions on Offshore Monopiles**

17:40~18:05 *Ali Kareem Hilo* (Chungnam National University, University of A Coruna), Felix Nieto and Antonio J. Alvarezb (University of A Coruna), Byoung-Kwon Ahn (Chungnam National University)*

7F2-T5

Date	7 (Thu.) November 2024
Time	16:00~18:05
Location	Winslow

- 7F2-T5-1 **A Study on Real-Time Ship Position Estimation Using the Unscented Kalman Filter Incorporating Ship Dynamics Based on AIS Data**
16:00~16:25 *Won-Jun Yoo, Kwang-Jun Paik*, Mu-Yeong Seo, and Sanghyun Kim (Inha University)*
- 7F2-T5-2 **Development of Multi-Vessel Tracking Algorithm using Maritime Environment Radar**
16:25~16:50 *Tae-hoon Yoo, Dong-Min Choi, Joo-Hyun Lee, and Won-keun Youn* (Chungnam National University)*
- 7F2-T5-3 **Monte-Carlo Tree Search Based Efficient Weather Routing Algorithm for Sea-Going Vessels**
16:50~17:15 *Ji-Seong Chung and Tae-Wan Kim* (Seoul National University)*
- 7F2-T5-4 **Development of Marine Logistics Accident Analysis Model Based on Large Language Models**
17:15~17:40 *Jiye Choi, Woorim Shin, Jangmin O, and Yangjun Ahn* (Sungshin Women's University), Eon-Kyung Lee (Korea Maritime Institute), Sewon Kim (Sejong University)*
- 7F2-T5-5 **Optimization of A-Star Algorithm Based on Ocean Traffic Congestion for Autonomous Ship**
17:40~18:05 *Da-Bin Lee*, Su-Hwan Kim and Se-Won Kim (Sejong University)*

8A1-T2.7

Date 8 (Fri.) November 2024

Time 13:40~15:45

Location Mayflower 1

8A1-T2.7-1 **Structural design assessment of CALM Buoy by RBA and FDA**

13:40~14:05 *Aijun Wang and Jaekyun Kim (Lloyd's Register)*

8A1-T2.7-2 **Evaluation of Ultimate Compressive Performance of Medium Thick Composite Cylindrical Pressure Shell under Deep-Sea Hydrostatic External Pressure**

14:05~14:30 *Chang Li Yu*, Xu Jiang and Yuan Zeng (Harbin Institute of Technology)*

8A1-T2.7-3 **Weather Dependent Factors for Cargo Securing Arrangements**

14:30~14:55 *Yongwon Lee (Lloyd's Register)*

8A1-T2.7-4 **The Influence of a Towed Trawl on the Motion Responses and Wave Drift Forces of Fishing Vessel**

14:55~15:20 *Thi Thanh Diep Nguyen and Hyeon Kyu Yoon* (Changwon National University)*

8A1-T2.7-5 **Some Aspects of the Second Order Theory for Wave Body Interactions**

15:20~15:45 *Šime Malenica (Bureau Veritas Marine & Offshore)*

8B1-T2.7

Date 8 (Fri.) November 2024

Time 13:40~15:20

Location Mayflower 2

Development Of Real-Time Sailing Mode Selection Algorithm For Ems

13:40~14:05 *Changjae Moon, Kido Park, Kyungwha Kim, and Giltae Roh* (Korean Register)*

A Study on Heterogeneous Drone Deployment Method and Object Detection Algorithm Application for Maritime Monitoring

14:05~14:30 *Hyeon-Bin Yeo, Kyungho Lee*, Youngsu Kim, and Luke (Yang Ouk) Kim (Inha University)*

Development of a Tag Management System for Automatic Classification of Ship Data

14:30~14:55 *Je-Eun Choi*, June Oh, Jeong-Min Kim, Hyeon-Seok Kang and Chuel-Hyun Kim (Hanwha Ocean)*

Cloud-Based High Fidelity Digital Twins for Integrated Multi-Domain Simulation: Gas Management and Cargo Handling Control System Commissioning

14:55~15:20 *Younguk Min* (HD KSOE), Seunghyeon(Stanley) Yoo (DNV Korea)*

8C1-T3

Date 8 (Fri.) November 2024

Time 13:40~15:20

Location Mayflower 3

8C1-T3-1 **Study on Heat Transfer and Compressive Performances Under Cryogenic Condition of Reinforced Polyurethane Foam for LNG Cargo Containment System**

13:40~14:05 *Chang-Yong Song*, Ha-Cheol Song, Da-Un Jeong, Sang-Hyeok Park, and Ho-Jun Lee (Mokpo National University)*

8C1-T3-2 **Towards Sustainable Maritime Practices: A Comprehensive Life Cycle Assessment of an LNG Carrier from Cradle to Grave**

14:05~14:30 *Kumar Pranav and Manasi Bhopale (Lloyd's Register)*

8C1-T3-3 **Development Of The Phils System For Energy Efficiency Analysis And Power Control Optimization Of Hybrid Electric Propulsion Ship**

14:30~14:55 *Su Bin Choi, Soon Ho Hong, Hyun Min Song, and Sun Je Kim* (Chungnam National University)*

8C1-T3-4 **Can Onboard Carbon Capture Play a Key Role in Decarbonising the Shipping Economy? In-Depth Learning for Feasibility Evaluations, Economic Analysis, and Regulatory Perspective**

14:55~15:20 *Simon Roussanaly, Donghoi Kim, Rahul Anantharaman, and Gokul Sai Subraveti (SINTEF Energy), Sadi Tavakoli* and Anders Valland (SINTEF Ocean)*

8D1-T1

Date 8 (Fri.) November 2024

Time 13:40~15:20

Location Bradford

8D1-T1-1 **Performance Analysis of a 1 kW Water-Cooled Proton Exchange Membrane Fuel Cell System for Maritime Applications**

13:40~14:05 *Quang Khai Nguyen, Kwang Hyo Jung*, Hyun Park, and Jae Hong Kim (Pusan National University)*

8D1-T1-2 **Sloshing Phenomena in LH2 Tanks: Computational Analysis of Pressure Changes and Boil-off Gas**

14:05~14:30 *Woorim Lee* and Sungwon Lee (HD Korea Shipbuilding and Offshore), Yongwon Lee and Padmini Mellacheruvu (Lloyd's Register), Dominic Hudson and Edward Richardson (University of Southampton)*

8D1-T1-3 **Experimental Study on Performance Degradation of PEMFC Single Cells in Maritime Operating Environment**

14:30~14:55 *Jae Heon Kwon, Seon Hyeong Lee, Jae Hong Kim, Hyun Park*, and Kwang Hyo Jung (Pusan National University), Moonho Son (Samsung Heavy Industries)*

8D1-T1-4 **Strategic Forecasting of GHG Emissions: Econometrically Enhanced LCA for the Singapore-Rotterdam Containership Green Corridor**

14:55~15:20 *Ioannis Chalaris* and Byongug Jeong (University of Strathclyde)*