Osaka University
Graduate School of Engineering
Department of Naval Architecture & Ocean Engineering

Hydro-Seminar

by Lab. of Floating-Body Dynamics in Waves

The speaker in the 58th Hydro-Seminar is

Dr. Jae-Hoon Lee

Research Assistant Professor
At Department of Naval Architecture & Ocean Engineering
Seoul National University, Seoul, Republic of Korea

Date: **Wednesday, 26 February, 2020**
Time: **13:30 – 15:00**
Venue: **S1-412 (Lecture room, 4F of S1 building)**
Suita Campus, Osaka University

An Overview of the Korean Government-funded Research Project

- Technology Development to Improve Added Resistance and Ship Operational Efficiency for Hull Form Design -

Abstract

This seminar will introduce an overview of the Korean Government-funded research project. This project is a four-year project (2016-2019) participated by seven institutions; Seoul National University, Inha University, Samsung Heavy Industries, Hyundai Heavy Industries, Korea Register of Shipping, ABS Global Engineering, and Lloyd's Register Asia. The objectives of the project are as follows: 1) Enhancement for analysis techniques for added resistance and weather factor, 2) Construction of database for the added resistance through experimental and numerical analyses, 3) Establishment of evaluation procedure for required minimum power of a ship in adverse ocean conditions, 4) Hull form optimization considering the added resistance and operation performance in real sea states. In the present seminar, the representative examples of experimental and numerical analyses on wave-induced resistance and ship operation performances in real sea states will be presented.

The Speaker: **Dr. Jae-Hoon Lee**

Dr. Jae-Hoon Lee graduated Seoul National University for his bachelor and PhD degrees in 2011 and 2018. He was engaged in post-doctoral fellow at Seoul National University (supervisor: Prof. Yonghwan Kim) in 2018 and at Osaka University (supervisor: Prof. Masashi Kashiwagi) in 2019. Currently, he is a research assistant professor at Seoul National University (supervisor: Prof. Yonghwan Kim). His main research topic is a numerical analysis on ship operation performance in waves.

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