Day 3

Wednesday 21 October

A7 / B7

A7 / ROOM A · GARNET 214–217 — 08:30–10:10

Aquaculture, Food & Integrated Floating Systems

Session chairs: Dr. Claudio Rodriguez Castillo, Kelvin Hydrodynamics Laboratory, University of Strathclyde; Professor Joerg Baumeister, Griffith University

08:30–08:50 PPID-095
Influence of Screen and Grouped-Morison Net Representations on the Dynamic Response of an Integrated Semi-Submersible Wind–Aquaculture Platform
Ling Wan — Ningbo University

08:50–09:10 PPID-068
Experimental Wave-Flume Investigation of a Novel Open Ocean Aquaculture System
Henrik Neufeldt — Technische Universität Braunschweig

09:10–09:30 PPID-001
Mechanical Characterization of HDPE Modular Aquaculture Structures: Pipes, Connectors and Nets
Hassan Karampour — Griffith University

09:30–09:50 PPID-036
Fatigue Assessment of a Small HDPE Aquaculture Vessel under Wave-Induced Loading Conditions
Xiaoyu Liu — Qingdao Huanghai University

09:50–10:10 PPID-034
Comparative Assessment of Load-Carrying and Hydrodynamic Performance of CFRP versus Steel Mooring Cables: A Case Study of Ocean Farm 1
Biao Zhang — Southern University of Science and Technology

B7 / ROOM B · GARNET 213 — 08:30–10:10

Floating Architecture & Sustainable Materials 1

Session chairs: Dr Shu Dai, Shanghai Investigation, Design, and Research Institute Co., Ltd; Professor Artur Karczewski, Gdansk University of Technology

08:30–08:50 PPID-032
Bio-receptivity of 3D Printed Concrete in Marine Environments: Influence of Sustainable Binders and Surface Geometries
Shuai Li — The Hong Kong Polytechnic University

08:50–09:10 PPID-024
Interlayer Degradation of Additively Manufactured GF-PP/PE Composite Under Marine Biofouling: Implications for the Structural Integrity of Floating Infrastructure
Zhuohong Zeng — Singapore Institute of Technology

09:10–09:30 PPID-108
A Floating High-tech Industrial Cluster for the Saemangeum Area
Changho, Moon — Kunsan National University

09:30–09:50 PPID-058
A Review of Construction Materials for Floating Architectural Structures: Current Practices, Innovation, and Emerging Trends
Artur Karczewski — Gdansk University of Technology

09:50–10:10 PPID-084
Floating Architecture as a Legacy Infrastructure Model: Lessons from Previous Olympic Host Cities and Opportunities for Brisbane 2032
Martin Ziarmal — Griffith University