Day 1

Monday 19 October

A3 / B3

A3 / ROOM A · GARNET 214–217 — 16:00–18:00

Optimisation, Control & Experimental Methods

Session chairs: Associate Professor Bernard Voon Ee How, Singapore Institute of Technology; Professor Xiang Yuan Zheng, Tsinghua Shenzhen International Graduate School, Tsinghua University

16:00–16:20 — PPID-093
Development of a Calculation Tool for the Long-Term Evaluation of the Effects of Motion Control Solutions on Power Output of Floating Offshore Platforms
Carolina Cavalcanti Böckh — Hoppe Marine GmbH

16:20–16:40 — PPID-051
Effects of Time Delay in Real-Time Hybrid Testing Using OpenFAST
Lidan Shi — University of Oxford

16:40–17:00 — PPID-107
Free Decay Tests on Damping Plates of a Semisubmersible with an X-Shaped Pontoon Arrangement
Xiang Yuan, Zheng — Institute for Ocean Engineering, Tsinghua Shenzhen International Graduate School, Tsinghua University

17:00–17:20 — PPID-126
Confidence-Aware Coordination for Tri-Domain Autonomous Inspection of Floating Wind Infrastructure
Bernard Voon Ee How — Singapore Institute of Technology

17:20–17:40 — PPID-188
Spectral Mismatch in Sea Clutter Suppression for Radar Monitoring around Floating Offshore Infrastructure
Chen Yujie — Ocean University of China; Qingdao Huanghai University, China

17:40–18:00 — PPID-077
Development, Validation and Performance Study of a Real-Time Hybrid Model for Floating Offshore Wind Turbines Based on a Closed-Loop Control Loading System
Chusen Lin — South China University of Technology

B3 / ROOM B · GARNET 213 — 16:00–18:00

Floating Breakwaters

Session chairs: Associate Professor Zhi Yung Tay, Singapore Institute of Technology; Professor Deping Cao, Tongji University

16:00–16:20 — PPID-053
Hydrodynamic Performance and Wave Attenuation Analysis of a New Stepped-Type Floating Breakwater under Different Mooring Configurations
Yerong Zhang — Singapore Institute of Technology

16:20–16:40 — PPID-045
Design of a Very Large Semicircular Floating Island-Breakwater for the Protection of a Marina in Deep Waters
José-Luis Monsó — Sener Mobility

16:40–17:00 — PPID-137
An Experimental Study of a Porous Floating Breakwater Consisting of Multilayer Perforated Plates and Pneumatic Buoyancy Units
Yiheng Ji — Tsinghua University

17:00–17:20 — PPID-131
Hydrodynamic Evaluation of Fixed and Floating π-Type Breakwaters for Marine Aquaculture
Masoumeh Hashempour — South China University of Technology

17:20–17:40 — PPID-091
Experimental evaluation of floating multi-box breakwaters in intermediate depth with irregular wave loading
Xiaoyu Wang — Delft University of Technology

17:40–18:00 — PPID-081
Development and investigation of hybrid floating photovoltaic and breakwater systems
Zhenyu Dou — The Hong Kong Polytechnic University