



International Academic Exchange Workshop for Marine Engineering

IAEWME 2016

December 18-20, 2016
Shanghai, China

Organized by

Computational Marine Hydrodynamics Lab
State Key Laboratory of Ocean Engineering
School of Naval Architecture, Ocean and Civil Engineering
Shanghai Jiao Tong University

Collaborative Innovation Center for Advanced Ship and Deep-Sea Exploration

Co-organized by

Osaka University, Japan
Seoul National University, Korea

Preface

Welcome to 2016 International Academic Exchange Workshop for Marine Engineering (IAEWME'2016)!

Welcome to Shanghai Jiao Tong University!

The 2016 International Academic Exchange Workshop for Marine Engineering (IAEWME'2016) is held on December 18-20, 2016 at Shanghai Jiao Tong University, China. We are honored and proud to host this year workshop. This two-day event aims to the expansion of students' knowledge in marine engineering by international exchange of academic research activities. This workshop was initially organized by Kyushu University and later Osaka University. In 2015, this workshop was held in Seoul National University, to develop more global perspective. Through this workshop, we can expect the cultivation of intercultural competencies and sensitivities to other cultures among students, young researchers, and faculty. Any student and faculty in Chinese, Japanese and Korean universities (but not limited) can participate to this year international event.

Organization Committee:

Prof. Masashi Kashiwagi, Osaka University, Japan

Prof. Yonghwan Kim, Seoul National University, Korea

Prof. Decheng Wan (Host), Shanghai Jiao Tong University, China



Hotel:

Xin Hu Hua International Hotel (新沪华国际大酒店)

Address: 368 Jian Chuan Road, Minhang District, Shanghai 200240,
CHINA

地址：上海市闵行区剑川路 368 号（剑川路虹梅南路口）

Phone: +86 21 6450 8999

Workshop Venue:

Room No. B808, Ruth Mulan Chu Chao Building,
School of Naval Architecture, Ocean and Civil Engineering
Minghang Campus, Shanghai Jiao Tong University
Dongchuan Road 800, Shanghai 200240

WIFI in the Workshop Venue:

Username: IAEWME2016

Password: 771853

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Program

SUNDAY, December 18, 2016

Arrive in Shanghai

18:00 – 20:00 Dinner
Locus: Xin Hu Hua International Hotel

MONDAY MORNING, December 19, 2016

11:00 Gather in the lobby of Hotel and bus leaves for lunch

11:30 – 12:20 Lunch
Locus: ENO Coffee Restaurant

12:20 – 12:55 Sightseeing: Minghang Campus of SJTU

MONDAY Afternoon, December 19, 2016

Locus: Room No. B808, Ruth Mulan Chu Chao Building

13:00 – 13:10 Opening Ceremony and Welcome Speeches
Chair: Prof. Decheng Wan, Shanghai Jiao Tong University, China

13:10 – 15:16 **Session 1**
Chair: Prof. Yonghwan Kim, Seoul National University, Korea

13:10 – 13:28 *Computation of added resistance on DTC containership*
By Beom-Soo Kim, Jae-Hoon Lee, Yonghwan Kim
Seoul National University, Korea

13:28 – 13:46 *Improvement in estimation of pressure distribution on ship hull surface*
By Yuta Seki, Masashi Kashiwagi
Osaka University, Japan



- 13:46–14:04 *Direct simulations of free running ship model under course keeping control*
By Jianhua Wang, Decheng Wan
Shanghai Jiao Tong University, China
- 14:04–14:22 *Roll motion of ship coupling with pitch under random seas*
By Liyuan Wang, Yougang Tang
Tianjin University, China
- 14:22–14:40 *Vessel-mooring coupled dynamic analysis of a turrent-moored FPSO*
By Zhihao Ren, Dezhi Ning, Bin Teng
Dalian University of Technology, China
- 14:40–14:58 *Modelling, guidance and control of autonomous marine vehicles: Theory and Experiments*
By Xianbo Xiang
Huazhong University of Science and Technology, China
- 14:58–15:16 *Numerical simulation of the flow field in a waterjet under backward conditions*
By Huili Xu, Zaojian Zou
Shanghai Jiao Tong University, China
- 15:16–15:36 **Tea & Coffee Break**
- 15:36–18:00 **Session 2**
Chair: Prof. Munehiko Minoura, Osaka University, Japan
- 15:36–15:54 *Dynamic analysis of floating type platform for wind power generation*
By Taiki Horiuchi, Masashi Kashiwagi
Osaka University, Japan
- 15:54–16:12 *Unsteady aerodynamic simulation of a floating offshore wind turbine*
By Ping Cheng, Decheng Wan
Shanghai Jiao Tong University, China
- 16:12–16:30 *Study on mooring system of floating offshore wind turbine with single point mooring system*
By Xiaoqi Qi, Yougang Tang
Tianjin University, China



- 16:30 –16:48 *Hydrodynamic investigation of a fixed OWC Wave Energy Converter*
By Rongquan Wang, Dezhi Ning, Bin Teng
Dalian University of Technology, China
- 16:48 –17:06 *Effects of parametric roll on added resistance*
By Jae-Hoon Lee, Yonghwan Kim
Seoul National University, Korea
- 17:06 –17:24 *Numerical modelling of VIV of single and two flexible risers*
By Muyu Duan, Decheng Wan
Shanghai Jiao Tong University, China
- 17:24 –17:42 *An experimental investigation on fatigue behaviors of HMPE ropes for deepwater moorings*
By Yushun Lian, Jinhai Zheng
Hohai University, China
- 17:42 –18:00 *Mini-drop tests for bubble effects on impact pressure inside air pocket*
By Jeoungkyu Lee, Jieung Kim, Yonghwan Kim
Seoul National University, Korea
- 18:30 –20:30 **Dinner**
Locus: Xiang Yu Shi Nian Restaurant

TUESDAY MORNING, December 20, 2016

Locus: Room No. B808, Ruth Mulan Chu Chao Building

- 08:00 **Gather in the lobby of Hotel and bus leaves for Workshop venue**
- 08:30 – 10:18 **Session 3**
Chair: Prof. Masashi Kashiwagi, Osaka University, Japan
- 08:30 – 08:48 *Long-term prediction of ship responses with service performance simulation*
By Naoyuki Murata, Masashi Kashiwagi
Osaka University, Japan
- 08:48 – 09:06 *Coupling effect of sloshing tanks and FPSO ship motion based on CFD method*
By Yuan Zhuang, Decheng Wan
Shanghai Jiao Tong University, China



- 09:06 – 09:24** *Application of Froude method and Hilbert-transform-based method for nonlinear roll damping*
By Jaehoon Lee, Yonghwan Kim, Je-Eun Choi, Chuel-Hyun Kim,
Seoul National University, Korea
- 09:24 – 09:42** *Research on key problems in temperature and structure of large full containment LNG storage tank*
By Xiling Huang, Shugeng Yang
Tianjin University, China
- 09:42 – 10:00** *Prediction of extreme hydroelastic loads on ship structure in waves*
By Jung-Hyun Kim, Yonghwan Kim
Seoul National University, Korea
- 10:00 – 10:18** *Numerical study of two-layered fluids sloshing in a tank*
By Obai Kargbo, Mi-an Xue
Hohai University, China
- 10:18 – 10:38** **Tea & Coffee Break**
- 10:38 – 12:26** **Session 4**
Chair: Decheng Wan, Shanghai Jiao Tong University, China
- 10:38 – 10:56** *Numerical simulation and experimental study of sloshing in a tank with baffles*
By Mi-an Xue
Hohai University, China
- 10:56 – 11:14** *MPS-FEM coupled method for simulation of sloshing flow in an elastic tank*
By Youlin Zhang, Decheng Wan
Shanghai Jiao Tong University, China
- 11:14 – 11:32** *Nonlinear wave forces on an oscillating vertical circular cylinder in finite-depth water*
By Peiwen Cong, Dezhi Ning, Bin Teng
Dalian University of Technology, China
- 11:32 – 11:50** *CFD study of vortex-induced motion of a deep draft semi-submersible*
By Weiwen Zhao, Decheng Wan
Shanghai Jiao Tong University, China



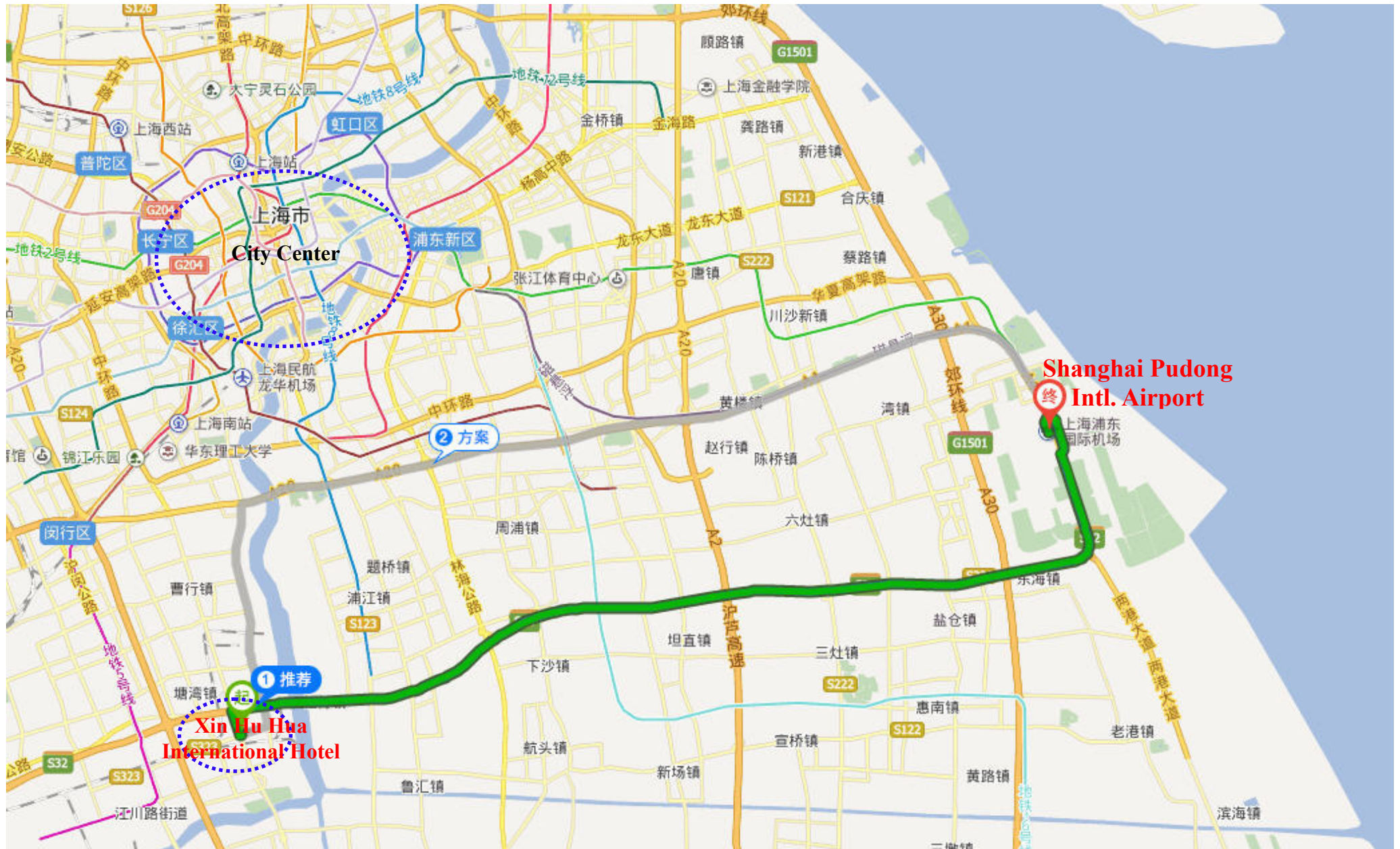
- 11:50 – 12:08** *Optimization of ship dimensions for improving performance of ship in waves*
By Yoo-Won Jung, Yonghwan Kim
Seoul National University, Korea
- 12:08 – 12:26** *Real-time estimation of sea state by statistical analysis of on-board monitoring data*
By Kensuke Uno, Masashi Kashiwagi
Osaka University, Japan
- 12:30 – 13:20** **Lunch**
Locus: ENO Coffee Restaurant



Xin Hu Hua
International Hotel

Ruth Mulan
Chu Chao
Building

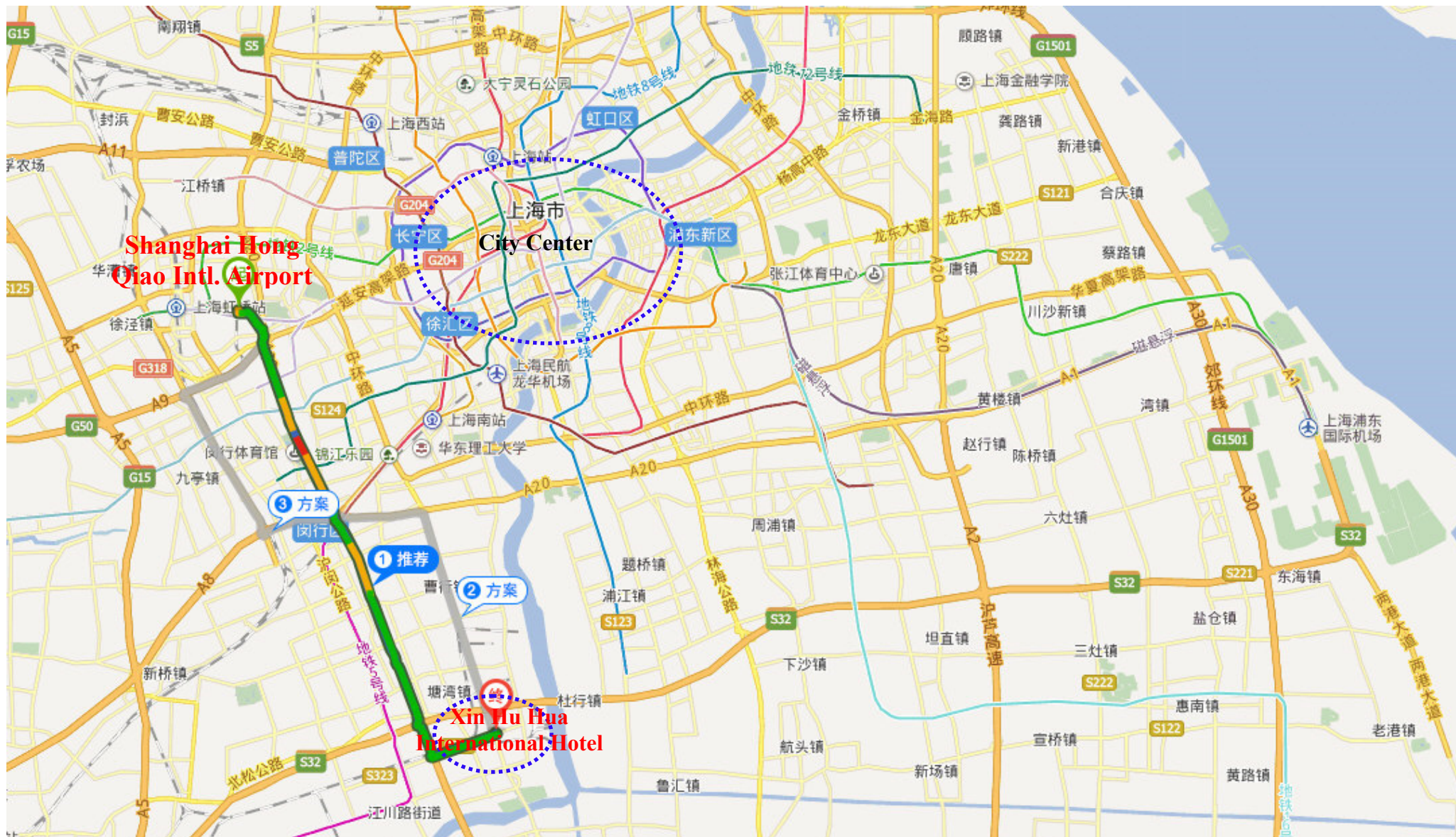
Minghang Campus
Shanghai Jiao Tong University



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