

October 12-16, 2014  
**Shanghai, China**

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The Eleventh (2014) ISOPE  
**Pacific-Asia**  
**Offshore Mechanics**  
**Symposium**

**PACOMS-2014**

Shanghai, China  
October 12-16, 2014

**Technical Program**

Invited and Peer-reviewed Papers from UK, Canada, USA,  
Australia, Japan, Korea, China

*Hydrodynamics, Coastal Hydrodynamics*  
*Arctic Transport & Ice Mechanics, Seabed -Soil Mechanics*  
*Offshore Wind Turbine & Ocean Energy, TLP*  
*Ships and Lifting Operations, Seabed -Soil Mechanics*

**Airport Transportation Service and Symposium Tour:**

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*Organized by:*

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China  
ISOPE International Organizing Committee a

*Hosted by:*

PACOMS-2014 Shanghai Secretariat and LOC - SJTU  
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The 25th (2015) International  
**Ocean and Polar Engineering Conference**  
Kona, Big Island, Hawaii, USA  
June 21-26, 2015

**Call For Papers**

Abstract Deadline: **October 20, 2014**  
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## Welcome to PACOMS-2014 Shanghai

We greatly appreciate the excellent responses and help we have received from colleagues around the North America, Oceania and Asia in the successful organization of the 11th ISOPE Pacific/Asia Offshore Mechanics Symposium (PACOMS-2014), Shanghai, China, October 12-16, 2014. The symposium features 13 sessions of peer-reviewed papers and invited papers from 6 Pacific Rim and European countries. This year's focus is on Ocean Renewable Energy, Offshore and Arctic Technologies.

The purposes of the ISOPE conference are to:

- promote technological progress and activities, international technological transfer and cooperation, and opportunities for engineers to maintain and improve technical competence; and
- provide a timely international forum for technical activities, cooperation, opportunity and fellowship among researchers and engineers,

by developing focused session topics with peer-reviewed papers accepted through rigorous review, establishing high international standards for publication and worldwide distribution and promoting regional cooperation among the Pacific/Asian countries.

The International Society of Ocean and Polar Engineers (ISOPE) has already held **50** successful international meetings:

- The *Annual ISOPE Conference* has been held with the world's largest technical program of its kind with refereed papers since 1992. It started in Edinburgh, 1991, and rotated among Europe, Asia and N. America; most recently in Busan, Korea, 2014.
- Additional specialty and regional symposia:
  - 1st (1990) *European Offshore Mechanics* (EUROMS-90), Trondheim.
  - 1st (1990) *Pacific/Asia Offshore Mechanics* (PACOMS-90), Seoul.
  - 1st (1995) *Ocean Mining* (OMS-95), Tsukuba.
  - 1st (1996) *International Deep-Ocean Technology and Workshop (IDOT-96)*, Los Angeles.
  - 1st (2003) *High Performance Materials*, Honolulu.
  - 1st (2005) *Advanced Natural Gas Transport*, Seoul.
  - 1st (2007) *Nanotechnology*, Lisbon.
  - 1st (2007) *Strain-Based Design*, Lisbon.
  - 1st (2008) *Frontier Energy Resources Tech.*, Vancouver.
  - 1st (2009) *Sloshing Dynamics and Design*, Osaka.
  - 1st (2010) *Renewable Energy & Environment*, Beijing.
  - 1st (2010) *Arctic Science and Technology*, Beijing.
  - 1st (2010) *Arctic Steel*, Maui, Hawaii
  - 1st (2012) *Tsunami and Safety*, Rhodes
  - 1st (2012) *Asset Integrity*, Rhodes
  - 1<sup>st</sup> (2013) *Manganese Steel*, Anchorage
  - 1<sup>st</sup> (2014) *3D Printing in Energy and Ocean Industries*

On behalf of PACOMS Executive Committee, International Organizing Committee and Local Organizing Committee, we would like to express our appreciation to the financial sponsors and welcome participants to the PACOMS-2014 Symposium in Shanghai.

**Jin S. Chung**, Chair and **Hua Liu**, Co-Chair  
PACOMS-2014 Shanghai Symposium

## **SUNDAY October 12**

All sessions will be held at Shanghai Jiao Tong University  
Academic Center (“Center”)

18:00-19:00

**On-Site Registration** and Badge and **Academic Center**  
Proceedings Pickup **Lobby**

## **MONDAY October 13**

**08:00**

**On-Site Registration** and Badge and Proceedings Pickup  
**Chairs and Presenters:** Test the PPT files in **Center Room 1**

**Fellowship-Hour Coffee**

**09:00**

**Lecture Hall**

**1. Opening Session**

**Conference Opening Address**

**Welcome Address**

**Keynote**

**10:20**

**2. Offshore Wind Turbine & Wave Energy** **Lecture Hall**

**12:20**

**PACOMS Lunch** **Center Restaurant**

**14:00**

**3. TLP, Ships and Lifting Operations I** **Lecture Hall**

**16:20**

**4. TLP, Ships and Lifting Operations II** **Lecture Hall**

**19:00**

**PACOMS Executive Committees** **Center TBA**

**19:00-21:00**

**Host Reception** **Center Restaurant**

## **TUESDAY October 14**

**07:30**

**Chairs and Presenters:** Test the PPT files **Center Room I**

**08:00**

**5. Arctic Transport & Ice Mechanics** **Lecture Hall**

**10:30**

**6. Seabed -Soil Mechanics** **Lecture Hall**

**12:30**

**PACOMS Lunch** **Center**

<b>14:00</b>		
<b>7. Hydrodynamics I</b>		<b>Lecture Hall</b>
<b>16:20</b>		
<b>8. Hydrodynamics II</b>		<b>Lecture Hall</b>
<b>18:30-20:00</b>		
<b>Dinner</b>		<b>Center Restaurant</b>

**WEDNESDAY October 15**

<b>07:30</b>		
<b>Chairs and Presenters: Test the PPT files</b>		<b>Center Room I</b>
<b>08:00</b>		
<b>9. Hydrodynamics III</b>		<b>Lecture Hall</b>
<b>10:30</b>		
<b>10. Coastal Hydrodynamics I</b>		<b>Lecture Hall</b>
<b>12:30</b>		
<b>PACOMS Lunch</b>		<b>Center Restaurant</b>
<b>14:00</b>		
<b>11. Coastal Hydrodynamics II</b>		<b>Lecture Hall</b>
<b>16:20</b>		
<b>12. Coastal Hydrodynamics III</b>		<b>Lecture Hall</b>
<b>18:30</b>		
<b>13. Symposium Closing Session</b>		<b>Lecture Hall</b>

<b>PACOMS Banquet</b>	
<b>19:00-21:30 Wednesday</b>	<b>Center Restaurant</b>

**SYMPOSIUM TOUR:  
October 16, Thursday**

Email your reservation by **September 1** to [hydrom@sjtu.edu.cn](mailto:hydrom@sjtu.edu.cn) , cc: [hliu@sjtu.edu.cn](mailto:hliu@sjtu.edu.cn)

**9:00-18:00**  
**Offshore Wind Farm, Deep-water Harbor at Yangshan Island, and China Maritime Museum**  
 Free of charge to PACOMS Symposium participants and spouses.  
 Bus departs at 9:00 from Academic Center, SJTU, and returns to *Hotel at 18:00.*



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## TECHNICAL PROGRAM

### The Eleventh (2014) Pacific-Asia Offshore Mechanics Symposium PACOMS-2014

Shanghai, China, October 12–16, 2014

All technical session and function events will take place at **Shanghai Jiao Tong University – Academic Center**, including Sunday onsite registration. The changes on titles or authors the PACOMS-2014 International Organizing Committee (IOC) received in writing before August 12, 2014 are reflected in this program. Final corrections will be updated in the Symposium Proceedings (ISBN 978-1-880653-90-6, ISSN 1946-004X). Proceedings in CD-ROM of peer-reviewed papers (450 pp. est.) in 13 sessions will be available from ISOPE during and after the Symposium: Individual papers from [www.onepetro.org](http://www.onepetro.org)

PACOMS Symposium proceedings are **indexed by Engineering Index, EI Compendex, Scopus and more**. Further updates will be posted on [www.isopec.org](http://www.isopec.org).



## SUNDAY October 12

Shanghai Jiao Tong University  
Academic Center (“Center”)

18:00-19:00

**On-Site Registration** and Badge and **Center Lobby**  
Proceedings Pickup

## MONDAY October 13

**08:00** **Center Lobby**  
**On-Site Registration** and Badge and Proceedings Pickup

### 1. OPENING PLENARY SESSION

Monday      October 13      09:00      Lecture Hall

Chair: Hua Liu, SJTU, China

Co-Chair: Jin S Chung, ISOPE, USA

#### Symposium Opening Address

Jin S Chung, Conference Chair, ISOPE, Cupertino, USA

#### PACOMS Welcome Address

Hua Liu, Co-chair and Host, Shanghai Jiao Tong University, China

**KEYNOTE Presentation**  
**Wave-induced Convective Diffusion in Nearshore Waters [Oral Presentation]**  
C C Mei, Massachusetts Inst of Technology, USA

**2. OFFSHORE WIND TURBINE AND WAVE ENERGY**  
**Monday            October 13            10:20            Lecture Hall**

Chair: W Y Duan, Harbin Engineering Univ, China  
Co-Chair: J F Zhou, Inst of Mechanics, CAS, China

**Hydrodynamic Analysis of Semi-submersible Type Floating Wind Turbine**  
Changhong Hu, Makoto Sueyoshi, Cheng Liu, Yingyi Liu, Kyushu Univ, Japan

**Analysis of Critical Reynolds Number for Floating Wind Turbine Blades**  
Wei-kang Du, Yong-sheng Zhao, Hua Liu, Yan-ping He, Shanghai Jiao Tong Univ, China

**Dynamic Response Analysis for Floating Offshore Wind Turbine Structures**  
Zhenya Liu, Min Zhang, Ocean Univ of China; Bin Wang, Hydrochina Huadong Engineering Corporation; Junfeng Du, Ocean Univ of China, China

**A Linear Parameter-varying Controller for Offshore Floating Wind Turbines**  
Lei Duan, Hiroyuki Kajiwara, Kyushu Univ, Japan

**Study on the Dynamical Stall Control of Flapping Wavy Leading Edge Wings in Turbulent Flow**  
Shidong Zhang, Wenrong Hu, Shanghai Jiao Tong Univ, China

**Numerical Computation of Aerodynamic Performances of NREL Offshore 5-MW Baseline Wind Turbine**  
Wenchao Zhao, Ping Cheng, Decheng Wan, Shanghai Jiao Tong Univ, China

**Group Lunch**  
**Monday            October 13            12:30            Center Restaurant**

**3. TLP, SHIPS AND LIFTING OPERATIONS I**  
**Monday            October 13            14:00            Lecture Hall**

Chair: S Y Hong, Korea Research Institute of Ships & Ocean Engineering (KRISO), Korea  
Co-Chair: D C Wan, Shanghai Jiao Tong Univ, China

**Tension Leg Platform Global Strength Analysis Based on Design Wave Approach**  
Yang Li, Zhongmin Shi, Bin Xie, Zhe Jiang, Qinggui Du, Junrong Wang, CNOOC Research Inst, China



**Time Domain Response Analysis of a Multi-column Tension-leg-type Floating Wind Turbine**

Yongsheng Zhao, Jianmin Yang, Yanping He, Mintong Gu, Shanghai Jiao Tong Univ, China

**A Numerical Study on Wave-Induced Motion Response of a Tension Leg Platform in Regular and Irregular Waves**

Y S Chao, B W Nam, S Y Hong, KRISO; H J Kim, Samsung Heavy Industries, Korea

**Large Cranes Optimization in Construction of Offshore Structures**

Guangning Chen, Liqun Jiang, China Offshore Oil Engineering (Qingdao), China

**A Lifting Method for Single Panels in Lay-down Construction of Deepwater Jacket**

Quangang Liu, Liqun Jiang, Fengyan Yang, Yongzhao Wang, Qingbo Yan, China Offshore Oil Engineering (Qingdao), China

**Analysis of the Stress of Ship Structures under Complex Stress State**

Valery V Novikov, Andrey P German, Maxim V Kitaev, Victor G Bugaev, Far Eastern Federal Univ, Russia

**4. TLP, SHIPS AND LIFTING OPERATIONS II**

**Monday                      October 13                      16:20                      Lecture Hall**

Chair: S X Liu, Dalian Univ of Technology, China

Co-Chair: F P Gao, Inst of Mechanics, CAS, China

**The Practice of Shenzhen-Hong Kong Subsea Gas Pipeline Risk Analysis**

Chun Li, Zhen Wen Liu, CNPC, China

**Three-dimensional Analysis of Elastic Marine Cable during Laying**

N Yang, Shanghai Jiao Tong Univ, China; D-S Jeng, Griffith Univ, Australia

**Wave-scatter Lumping Strategies for Fatigue Damage Assessment**

Anteng Chang, Junfeng Du, Shuqing Wang, Huajun Li, Ocean Univ of China, China

**An Approach to the Lower Bounds for the Nonlinear Buckling of Thin Shells**

Hongtao Wang, China Univ of Petroleum Qingdao, China

**Marine Concrete from Granulated Phosphorite Slag Cement**

Nadezhda A Falaleeva, Roman S. Tyitirin, Lev V Kim, Far Eastern Federal Univ, Russia

**Numerical Simulation of Hydrodynamic Performances of Propeller by MRFSimpleFoam Solver**

Wenchao Zhao, Decheng Wan, Shanghai Jiao Tong Univ, China

**Numerical Simulation of Sewage Transport-diffusion in Xiyang Channel on the Radial Sand Ridges of South Yellow Sea**

Zhipeng Zhou, Jianfeng Tao, Fan Xu, Hohai Univ, China

**18:00  
PACOMS Executive Committees**

**Center Room II**

18:30-20:00  
HOST RECEPTION

Center Restaurant

## TUESDAY October 14

### 5. ARCTIC TRANSPORT & ICE MECHANICS

Tuesday                      October 14                      08:00                      Lecture Hall

Chair: V I Pavlenko, Arkhangelsk Scientific Centre, Russia  
Co-Chair: Alexandra V Pogorelova, Amur State Univ of Humanities and Pedagogy, Russia

#### **Development of Transport and Logistics Infrastructure in Russian Arctic**

V I Pavlenko, E K Glukhareva, S.Yu.Kutsenko, Arkhangelsk Scientific Centre, Russia

#### **Critical Stresses of Ice Cover as Fracture Criterion during Take-off and Landing of an Airplane**

Alexandra V Pogorelova, Victor M Kozin, Inst of Machining and Metallurgy; Anna A. Matiushina, Amur State Univ of Humanities and Pedagogy, Russia

#### **Ice Plate Deflections due to a Submerged Source on a Sloped Sea Bed**

Alexandra V Pogorelova, Victor M Kozin, Inst of Machining and Metallurgy, Russia

#### **Estimations for Design Sea Ice Thickness near Chengdao Sea Area**

Xue Li, Shanshan Tao, Sheng Dong, Geng Chen, Ocean Univ of China, China

#### **Analysis of Ice Load Probability Distributions by Different Codes and Standards**

Olga A Sabodash, Far Eastern Federal Univ, Russia; Bin Teng, Dalian Univ of Technology, China

#### **Flow Characteristics of Bohai Sea under Extreme Cold Air Break**

J.L. Liu, J.F. Zhou, Inst of Mechanics, CAS, China

### 6. SEABED SOIL MECHANICS

Tuesday                      October 14                      10:30                      Lecture Hall

Chair: D S Jeng, Griffith Univ, Australia  
Co-Chair: J S Wang, Shanghai Jiao Tong Univ, China

#### **A Numerical Model for Pore Pressure Buildup in a Porous Seabed under the Action of Combined Waves and Current**

Yi-Fa Wang, Fu-Ping Gao, Inst of Mechanics, CAS, China

#### **Energy-based Model for Wave-induced Pore-pressure Buildup in Cohesionless Soil: Model Validations**

Zhen Guo, Zhejiang Univ, China; Dong-sheng Jeng, Griffith Univ, Australia; Shan Liu, Zhejiang Tongji Vocational College of Science and Tech, China

**Effect of Caofeidian Reclamation Project on 3D Tidal Flow in 2012**

Jianwen Qi, Cuiping Kuang, Mingtao Jiang, Tongji Univ; Jie Gu, Shanghai Ocean Univ; Zhen Ma, Futian Liu, Dong Du, Tianjin Inst of Geology and Mineral Resources, China

**Numerical Study on Hydrodynamic Mechanism of Sediment Trapping by Geotextile Mattress with Sloping Curtain (GMSC)**

Liquan Xie, Yanhui Xu, Wenrui Huang, Tongji Univ, China; Wenrui Huang, Florida State Univ, USA

**Laboratory Study for the Influence of Clayey Soils on Wave-induced Liquefaction**

Bo Liu, Shanghai Jiao Tong Univ, China; Dong-Sheng Jeng, Griffith Univ, Australia

**Numerical Modelling of Poro-elastoplastic Seabed under Combined Waves and Currents**

Y Zhang, Shanghai Jiao Tong Univ, China; D-S Jeng, Griffith Univ, Australia; C C Liao, Shanghai Jiao Tong Univ, China; H Y Zhao, Griffith Univ, Australia; J S Zhang, Hohai Univ, China

**Group Lunch**

**Tuesday            October 14            12:30            Center Restaurant**

**7. HYDRODYNAMICS I**

**Tuesday            October 14            14:00            Lecture Hall**

Chair: C C Mei, Massachusetts Inst of Technology, USA

Co-Chair: F Xu from Hohai University, China

**Numerical Investigation of Current Generation Performance in a Large Ocean Engineering Basin [Oral presentation]**

Il-Ryong Park, Dong-Eui Univ; Jin-Ha Kim, Seok-Won Hong, Hong-Gun Sung, Korea Research Institute of Ships & Ocean Engineering (KRISO), Korea

**Research on the Characteristics of Flow Velocity in a Two-way Annular Flume**

Jie Wang, Jingjing Zhou, Naiyu Zhang, Hohai Univ, China

**A Coupling Model for 3D Nonlinear Wave Propagation from a Numerical Basin to a Physical Wave Basin**

Shuxue Liu, Zhiwen Yang, Jinxuan Li, Xinran Ji, Dalian Univ of Technology, China

**Modern Computer Architecture to Speed-Up Calculation of Tsunami Wave Propagation**

Mikhail M. Lavrentiev, Alexey A. Romanenko, Konstantin F. Lysakov, Novosibirsk State Univ, Russia

**Analytic Solutions for Tsunami Waves by Parabolic-profile Submerged Ridge**

Mengjie Xiong, Jinhai Zheng, Gang Wang, Hohai Univ, China

**SPH Study on the Influence of Shear-rate Dependent Effects on the Flow Behaviour of Dry Granular Assemblies**

Xuzhen He, Univ of Cambridge, UK; Dongfang Liang, Shanghai Jiao Tong Univ, China

**Numerical Simulations of 3D Liquid Sloshing Flows by MPS Method**

Yaqiang Yang, Zhenyuan Tang, Decheng Wan, Shanghai Jiao Tong Univ, China

**8. HYDRODYNAMICS II**

**Tuesday      October 14      16:20      Lecture Hall**

Chair: B Teng, Dalian Univ of Technology, China

Co-Chair: Jun Zang, Univ of Bath, UK

**Two-Phase SPH Simulations of Wedge Water Entry**

Lin Ma, Hua Liu, Shanghai Jiao Tong Univ, China

**Hydroelastic Waves Generated by Point Loads in a Current**

D. Q. Lu, Shanghai Univ, China; Ronald W. Yeung, Univ of California at Berkeley, USA

**Numerical Simulations of Breaking Waves at Vertical Wall**

F. Gao, J. Zang, Univ of Bath, UK

**Numerical Simulation and Statistic Analysis of Typhoon Storm Surge in the Sea Area around Shandong Peninsula**

Yanan Wu, Zhifeng Wang, Sheng Dong, Jingjing Li, Ocean Univ of China, China

**Dissipative Effects of Resonant Waves in Confined Space Formed by Floating Box in Front of Vertical Wall**

Lei Tan, Lin Lu, Dalian Univ of Technology; Yong Liu, Ocean Univ of China, China; Olga A Sabodash, Far Eastern Federal Univ, Russia; Bin Teng, Dalian Univ of Technology, China

**Joint Return Value Estimation of Wind Speeds and Wave Heights Based on Copula Functions**

Jinjin Zhai, Sheng Dong, Qilin Yin, Ocean Univ of China, China

**CFD Application in Airflow Field Analysis for LNG Ship Engine Room**

Jin-hong Ding Chong-ben Ni, Yan-ping He, Shanghai Jiao Tong Univ, China

**PACOMS Dinner**

**Center Restaurant**

**WEDNESDAY October 15**

**9. HYDRODYNAMICS III**

**Wednesday      October 15      08:00      Lecture Hall**

Chair: S W Hong, Korea Research Institute of Ships & Ocean Engineering (KRISO), Korea

Co-Chair: J M Zhan, Sun Yat-sen Univ, China

**Measurement of the Scale Effect on Breaking Waves**

Matthew Harry, Hong Zhang, Charles Lemckert, Griffith Univ; Gildas Colleter, Aurecon Australia, Australia

**Hydrodynamic Analysis of Interactions between Waves and Offshore Structures**

Liang Sun, Lifen Chen, Jun Zang, Univ of Bath, UK

**Effect of Angles of Attack on the Hydrodynamic Forces of Manta Ray**

Jie-min Zhan, Ye-jun Gong, Tian-zeng Li, Sun Yat-sen Univ, China

**Parameter Analysis of Ship Parametric Rolling by Poincaré Map**

Xiao Zhang, Hezhen Yang, Fei Xiao, Shanghai Jiao Tong Univ, China

**Numerical Investigation of Free Surface Effect on Cavitation**

Ye-jun Gong, Jie-min Zhan, Xue-bin Chen, Sun Yat-sen Univ, China

**Application of TVD Scheme on Horseshoe Vortex at the Bottom of a Wall-Mounted Circular Cylinder**

Hanxu Zheng, Jiasong Wang, Shanghai Jiao Tong Univ, China

**10. COASTAL HYDRODYNAMICS I**

**Wednesday      October 15      10:30      Lecture Hall**

Chair: J H Zheng, Hohai Univ, China

Co-Chair: S G Liu, Tongji Univ, China

**Quantitative Study and Application on Numerical Dissipation in Discretization of Advection-Dispersion Equation**

Dong Cui, Xincheng Liu, Shanghai Water Engineering Design and Research Inst, China

**Numerical and Experimental Study of Dispersion in a Shallow Coastal Area**

Yingying Yu, David Spencer, Hong Zhang, Charles Lemckert, Griffith Univ, Australia

**Simulation of Cyclone-generated Waves in Coastal Shallow Waters**

Fumin Xu, Xue Xiao, Hohai Univ, China; William Perrie, Bedford Inst of Oceanography, Canada

**SPH Simulation of Solitary Wave Generation and Impact on a Vertical Wall**

Dongfang Liang, Jingxin Zhang, Hua Liu, Shanghai Jiao Tong Univ, China

**Discussion on the Boussinesq-type Equations for Ground Water Wave in Coastal Aquifer**

Jun Kong, Zhaoyang Luo, Hangyang Sun, Jiayan Cao, Hohai Univ, China

**Numerical Study on the Wave Dissipating Performance of a Submerged Horizontal Plate Breakwater Using OpenFOAM**

Heng Jin, Yong Liu, Shu-yue He, Hua-jun Li, Ocean Univ of China, China

**Group Lunch**

**Wednesday      October 15      12:30      Center Restaurant**

**11. COASTAL HYDRODYNAMICS II**

**Wednesday      October 15      14:00      Lecture Hall**

Chair: W R Huang, Florida State Univ, USA

Co-Chair: J-H Yi, Korea Inst of Ocean Science and Technology, Korea

**Influence of the Three Gorges Dam on Sediment Budget at Mouth Bar of the Yangtze Estuary**

Ao Chu, Jia'ai Tai, Hohai Univ; Shenghua Gu, Shanghai Marine Environmental Monitoring and Forecasting Center, China

**Tidal Asymmetry of the North Branch of the Yangtze Estuary and its Impact on Geomorphology**

Qianyu Yin, Zheng Gong, Changkuan Zhang, Wenyan Zhang, Hohai Univ, China

**Remote Acoustic Monitoring of Currents in East Sea/ Japan Sea Shelf Zone**

Dmitrii Sergeevich Strobykin, V.I.Ilichev Pacific Oceanological Inst; Evgeniya Alexandrovna Tikhomirova, Far Eastern Federal Univ, Russia

**Near-bed Velocity Profile and Friction Characteristic of Tide-induced Bottom Boundary Layers on the Mudflats of Jiangsu Coast, China**

Qian Zhang, Zheng Gong, Changkuan Zhang, Chuang Jin, Huan Li, Hohai Univ, China

**Influence Analysis of Downstream Tide on Flood Processes in Jiaxing**

Chao Han, Shuguang Liu, Guihui Zhong, Tongji Univ; Qing Mei, Ministry of Water Resources, China

**Impacts of Potential Future Sea Level Rise on the Tides in the Pearl River Estuary, China**

Huidi Liang, Cuiping Kuang, Hongcheng Huang, Tongji Univ; Jie Gu, Shanghai Ocean Univ, China

**Short-term Tide Level Forecasting Based on Gaussian Process Regression**

Minzhe Zhu, Shuguang Liu, Tongji Univ; Shenghua Gu, Shanghai Hydrological General Station, China

**12. COASTAL HYDRODYNAMICS III**

**Wednesday      October 15      16:20      Lecture Hall**

Chair: Changhong Hu, Kyushu Univ, Japan

Co-Chair: D F Liang, Shanghai Jiao Tong Univ, China

**A Coupling Model for Waves Propagating over a Porous Seabed**

C C Liao, Shanghai Jia Tong Univ, China; D-S Jeng, Griffith Univ, Australia; Z Lin and Y Guo, Univ of Aberdeen, UK

**2D Model for Wave-induced Pore Pressure Accumulation around a Rubble Mound Breakwater over Sloping Seabed**

H-Y Zhao, D-S Jeng, Griffith Univ, Australia

**Analysis of Wave Envelope Spectrum in Coastal Waters of Radial Sand Ridges**

Danjun Yu, Weibing Feng, Bin Yang, Hohai Univ, China

**Evaluation of Enhanced Performance for Caisson-type Breakwaters Using Interlocking System**

Jin-Hak Yi, Woo-Sun Park, Jihye Seo, Deokhee Won Korea Inst of Ocean Science and Technology, Korea

**Steady-state Solutions of the Resonant Wave System Propagating over Undulated Bottom**

Dali Xu, Shijun Liao, Shanghai Jiao Tong Univ, China

**Correlation Analysis and Its Processing Method in Taihu Basin, China**

Zhengzheng Zhou, Shuguang Liu, Yuyin Liang, Tongji Univ; Hejuan Lin, Ministry of Water Resources, China

**An Investigation on Excessive Storm Surge Impacts on Typical Seawall in Shanghai**

Xincheng Liu, Xiaotao Du, Yongjin Lu, Lihong Pan, Shanghai Water Engineering Design & Research Inst, China

**13. CLOSING SESSION**

Wednesday      October 15      18:30      Lecture Hall

Chair: H Liu, Shanghai Jiao Tong Univ, China

Co-Chair H Zhang, Griffith University, Australia

**PACOMS Banquet**

19:00-21:30 Wednesday      Academic Center  
Restaurant

**THURSDAY October 16**

**SYMPOSIUM TOUR:**

9:00-18:00

Email your reservation by September 1 to [hydrom@sjtu.edu.cn](mailto:hydrom@sjtu.edu.cn) ,  
cc: [hliu@sjtu.edu.cn](mailto:hliu@sjtu.edu.cn)

**Offshore Wind Farm, Deep-water Harbor at Yangshan Island, and China Maritime Museum**

Free of charge to PACOMS Symposium participants and spouses.

Bus departs at 9:00 from Academic Center, SJTU, and return to Academic Center at 18:00.



## GENERAL INFORMATION

PLACE AND DATE: Shanghai, China, October 12-16, 2014

All ISOPE-PACOMS-2014 Symposium Social Events will take place at the venue Shanghai Jiao Tong University, the official venue for the Symposium.

Shanghai Jiao Tong University - Academic Center  
800 Dongchuan Road  
Shanghai 200240, China  
Tel: +86-21- 54740800, Fax: +86-21- 54740317  
Email address: [XSZX\\_hotel@163.com](mailto:XSZX_hotel@163.com) cc hydrom@sjtu.edu.cn

**HOTEL RESERVATION FORM**  
**SYMPOSIUM REGISTRATION FORM**  
Download from [www.isopec.org](http://www.isopec.org) > Program > Symposium > PACOMS-2014 or request from [isopec-2@isopec.org](mailto:isopec-2@isopec.org) .

**Host Reception**  
Monday, Oct.13, 18:30

**Symposium Banquet**  
Wednesday, Oct. 15, 19:00

**PARKING: Free parking.**

**LANGUAGE**  
The language for the conference is English. No translation service will be arranged.

**AIR TRAVEL**  
Shanghai is one of the largest cities of China. Pudong International Airport (PVG) is easy to access and nearby countries' main cities.

**CURRENCY EXCHANGE**  
Currency can be exchanged either at the airport bank or local bank. Pay attention to the exchange rate fluctuation. (6.2 Yuan RMB per US\$1 as of August 1, 2014).  
ATM machines are available at the airports and the hotel.

**AIRPORT TO Shanghai Jiao Tong University, Academic CENTER**  
800 Dongchuan Road, Shanghai 200240

**Options are:**

**October 12 Airport Pickup Services by Shanghai Secretariat**  
PACOMS-2014 Shanghai Secretariat will offer an **airport pickup service** at Pudong International Airport (PVG) and Shanghai Hongqiao International Airport (SHA) from 9:00am till 21:00 on October 12. Staffs from SJTU will meet you with the "ISOPE-PACOMS-2014" sign at the exits of PVG (T1 and T2) and SHA (T2).The reserved buses are scheduled at every two hours interval.

If interested in this service, **email 10 days in advance** your **arrival airport, time, airline and flight number** to [hliu@sjtu.edu.cn](mailto:hliu@sjtu.edu.cn)

**Pudong International Airport** (PVG) is located about 50 km from SJTU (Minhang campus). Taxi costs 170RMB.The taxi fare depends on the traffic conditions.



**Shanghai Hongqiao International Airport** (SHA) is located about 25 km from SJTU (Minhang campus).Taxi costs 100RMB.The taxi fare depends on the traffic conditions.

All payment must be in RMB (Yuan). Airport and the hotel have several ATM for cash withdrawal and currency exchange office to withdraw money in RMB.

**HOTEL ACCOMMODATION (must use the Reservation Form)**  
Download the form from [www.isopec.org](http://www.isopec.org) >Program > Symposium > PACOMS-2014.

A limited number of rooms for foreign participants at special PACOMS room rates are available at the PACOMS venue: Academic Center.

Make early room reservation directly to [weiliao2011@163.com](mailto:weiliao2011@163.com), [cc:hydrom@sjtu.edu.cn](mailto:cc:hydrom@sjtu.edu.cn)

#### **PACOMS-2014 ADVANCE REGISTRATION FEES** (if received before September 11)

**REGISTRATION. Use the Advance Registration Form from [www.isopec.org](http://www.isopec.org)**

Register directly through ISOPE, California, USA: Fax **1-650-254-2038** or [meetings@isopec.org](mailto:meetings@isopec.org). Payment of the registration fees should be made only in US dollars.

**Deadline for non-author participants: September 11.**

All persons attending the symposium are required to register, pay the appropriate fee, and get a symposium badge. Registration fees are as follows:

<b>Category</b>	<b>Advance Registration Fee (US \$)*</b>	
		Received before the <b>Deadlines</b>
<input type="checkbox"/> Author, Co-authors	500	_____
<input type="checkbox"/> Session or Symposium Chair, Co-Chair	500	_____
<input type="checkbox"/> ISOPE Member	450	_____
<input type="checkbox"/> ISOPE member with new application (incl. 2015 membership fee and 1-year journal issues)	650	_____
<input type="checkbox"/> Non-Member	650	_____
<input type="checkbox"/> Spouses (no proceedings, incl. lunch, banquet)	Free	_____
<input type="checkbox"/> Full-time Student with 2014 ID Card	400	_____
<input type="checkbox"/> PACOMS Banquet	Free	_____
<input type="checkbox"/> Reserve a seat for Thursday Symposium Tour	Free	_____

\* The fee in this table is for the advance-registered participants. The Symposium registration fee *includes* Host Reception, PACOMS Banquet, tea breaks, lunch, Symposium Tour and the symposium proceedings.

**Registration after deadline costs additional \$150.**

\* **Chinese participants from within China** should ask for a registration form in Chinese from [hliu@sjtu.edu.cn](mailto:hliu@sjtu.edu.cn)

#### **REGISTRATION CANCELLATIONS**

Request for cancellation of registration by non-authors must be received in writing by **July 25, 2014** only will be granted a refund minus **150** US\$ processing charge.

#### **REGISTRATION BADGE**

Registration badges are required for admittance to all the symposium activities, including the reception and banquet.

#### **ON-SITE SYMPOSIUM REGISTRATION**

Participants who miss the advance registration may register at the Symposium Registration Desk, but there is US\$150 surcharge. The registration desk will be open during the following hours:

Sunday, Oct.12 15 18:00-19:00 Monday, Oct.13 08:00-

#### **ISOPE PUBLICATION ORDER**

A **PACOMS-2014 Symposium Proceedings** (CD-ROM, ISBN 978-1-880653-90-6, ISSN 1946-004X) is included in the symposium registration fees. Single-volume proceedings in CD-ROM (450 pp. est.) can also be ordered by email, fax or air mail at:

\$100 (ISOPE Member \$80) plus \$30 Express shipping & handling.

**ISOPE PUBLICATION can be ordered from ISOPE, 495 North Whisman Road, Suite 300, Mountain View, California 94043-5711, USA: FAX 1-650-254-2038; [orders@isope.org](mailto:orders@isope.org) .**

Advance payment is required. MasterCard, VISA, AMEX card, bank wire-transfer or U.S. bank checks in US Dollar *payable to ISOPE* will be accepted. (Download the ISOPE Publication Order Form from [www.isope.org](http://www.isope.org) > Orders or email to [orders@isope.org](mailto:orders@isope.org) for publication order form.)

**PACOMS-2014 HEADQUARTERS Academic Center**

#### **HOST RECEPTION**

**18:30-21:00 Monday, Oct. 13 Academic Center Restaurant**

#### **PACOMS SYMPOSIUM BANQUET**

**19:00-21:00 Wednesday, Oct. 15 Academic Center Restaurant**

**PPT TEST 07:30 daily Academic Center, Room I**

A power-point projector connected to PC ([Read](#) Author Information form) and screen is set up during 07:30-17:00 (Oct. 13-15) in the session rooms.

#### **INTERNATIONAL PARTICIPANTS AND VISA APPLICATION**

International authors, participants or attendees who need help (except financial) can contact: Prof. Hua Liu, PACOMS-2014 SJTU Local Secretariat,

**Shanghai Jiao Tong University, 800 Dongchuan Road, Shanghai 200240, CHINA Email: [hliu@sjtu.edu.cn](mailto:hliu@sjtu.edu.cn) Fax: 86-21-34204472 Contact: Ms. Wei Liao / Tel: 86-21-34206194**

**Entry Visa to China.** PACOMS-2014 SJTU Local Secretariat will assist, if the request for invitation letter is received by August 15.

#### **CLIMATE**

**The October weather in Shanghai is fine and warm, temperature ranges 15°C~20°C.**



*About Shanghai?  
Go on Internet or click*

<http://www.shanghai.gov.cn/shanghai/node27118/index.html>



*Donghai Bridge to Deepwater Harbor Yangshan Island*



*100-MW Offshore Wind Farm*



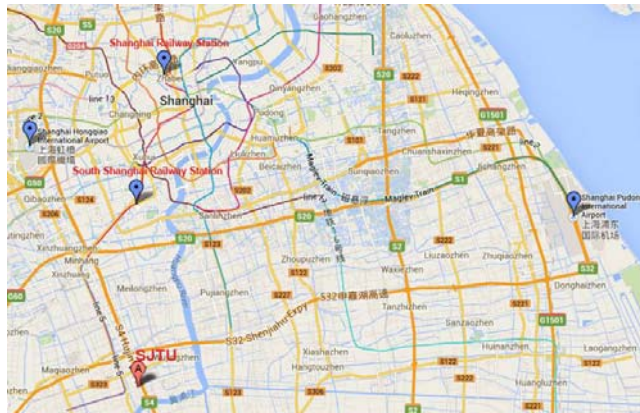
*Shanghai*



*SJTU campus*



*SJT University – Deepwater Offshore Basin*



*Map of SJTU - Shanghai airports*

## TECHNICAL PROGRAM

### PACOMS-2014 Shanghai

Shanghai, October 12-16, 2014

*Download the Hotel Reservation Form and Advance Registration Form from [www.isopec.org](http://www.isopec.org). >program > >Symposium> PACOMS-2014.*

#### *Forthcoming ISOPE Meetings*

### ISOPE-2015 Kona, Hawaii

The 25th (2015) International  
Ocean and Polar Engineering Conference, Kona, Big  
Island, Hawaii, USA, June 21-26, 2015

Abstract Deadline: October 20, 2014

#### Online Abstract Submission

<http://www.isopec.org/call4papers/2015/HowToSubmitAbstractOnline.htm>

and Technical Program (available on [www.isopec.org](http://www.isopec.org).  
Call For Papers on [www.isopec.org](http://www.isopec.org)

Including additional ISOPE symposia sessions:

*Arctic Science and Tech-2015*  
*Arctic Materials -2015*  
*Renewable Energy and Environment-2015*  
*Frontier Energy Tech-2015*  
*Sloshing-2015*  
*Strain Based Design-2015*  
*High-performance Materials (HPM-2015)*  
*Tsunami and Safety 2015*  
*Asset Integrity 2015*  
*Manganese Steel 2015*  
*3D Printing in Energy and Ocean 2015*  
*Ocean Mining & Gas Hydrates*

### OMS-2015 Kona, Hawaii

11th ISOPE Ocean Mining & Gas Hydrates Symposium  
Kona, Hawaii, USA, June 21-26, 2015  
[www.deepoceanmining.org](http://www.deepoceanmining.org) : [www.isopec.org](http://www.isopec.org)

### ISOPE-2016 Rhodes

26th International Ocean and Polar Engineering Conference  
Rhodes, Greece, June 26-July 1, 2016

### PACOMS-2016 Gold Coast

12th ISOPE Pacific-Asia Offshore Mechanics Symposium  
Gold Coast, Australia, 2016



International Society of  
Offshore and Polar Engineers  
P.O. Box 189  
Cupertino, CA 95015-0189, USA  
Fax: 1-650-254-2038  
[meetings@isopec.org](mailto:meetings@isopec.org); [www.isopec.org](http://www.isopec.org)