

November 10-14, 2008
Bangkok, Thailand

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**The Eighth (2008) ISOPE
Pacific/Asia
Offshore Mechanics
Symposium**

**ISOPE
PACOMS-2008**

**Asia Hotel Bangkok, Bangkok, Thailand
November 10-14, 2008**

Technical Program

Invited and Peer-reviewed Papers from 15 countries

Subsea & Deep Ocean	Risers Design & Re-entry
Ocean & Wind Energy	Vortex-Induced Vibration
Collision, Materials	Tsunami, Freak Waves
Geotech /Environment	Wave-Structure Interact..
Coastal-Seabed Interactions	Coastal Wave Simulation

Organized by:

International Organizing Committee and Local Organizing Committee

Sponsored by:

International Society of Offshore and Polar Engineers (ISOPE) *with*

Cooperating organizations:

Engineering Institute Thailand

King Mongkut's University of Technology Thonburi

Hosted by:

King Mongkut's University of Technology Thonburi (KMUTT)

ISOPE PACOMS-2008 Bangkok Secretariat and LOC

Bangkok, 10140, Thailand; E-mail: tawich.pul@kmutt.ac.th;

Tel: +66-2-4709145; Fax +66-2-4279063



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Cupertino, Calif. 95015-0189
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King Mongkut's University of Technology Thonburi (KMUTT)



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PTT Exploration and Production Public Company Limited (PTTEP)

ISOPE-2009 Osaka

The 19th (2009) International
Ocean and Polar Engineering Conference
Osaka, Japan, June 21-26, 2009

Call For Papers

Abstract Deadline: **October 20, 2008**
Download from www.isopec.org or ask meetings@isopec.org.
Online Abstract Submission (now) and Technical Program
(in February, 2009) on www.isopec.org; Fax 1-650-254-
2038

Welcome to PACOMS-2008 Bangkok

We greatly appreciate the excellent responses and help we have received from colleagues around the world in the successful organization of the 8th ISOPE Pacific/Asia Offshore Mechanics Symposium (ISOPE PACOMS-2008), Bangkok, Thailand, November 10–14, 2008. The symposium features 12 **sessions of peer-reviewed papers** and **invited papers** from 15 Pacific Rim and European countries. This year's focus is on **Technical Challenges in S.E. Asia and Oceania**.

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 Offshore and Polar Engineers (ISOPE) has already held 41 successful international meetings:

- 1st (1990) ISOPE *European Offshore Mechanics Symposium* (EUROMS-90), Trondheim.
- 1st (1990) ISOPE *Pacific/Asia Offshore Mechanics Symposium* (PACOMS-90), Seoul.
- 1st (1995) ISOPE *Ocean Mining Symposium* (OMS-95), Tsukuba.
- 1st (1996) ISOPE *International Deep-Ocean Technology Symposium and Workshop (IDOT-96)* held in Los Angeles.
- 1st (2003) ISOPE High Performance Materials Symposium, Honolulu.
- 1st (2005) Advanced Natural Gas Transport Symposium, Seoul
- 1st (2007) ISOPE Nanotechnology Symposium, Lisbon
- 1st (2007) ISOPE Strain-Based Design Symposium, Lisbon
- 1st (2008) ISOPE Frontier Energy Resources Technology Symposium, Vancouver.
- 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 annually rotate among Europe, Asia and N. America; Most recently in Vancouver, 2008.

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-2008 Symposium in Bangkok.

Jin S. Chung, PACOMS Executive Committee and International
Organizing Committee
and
Somchai Chuchepsakul, Local Organizing Committee and
International Organizing Committee

MONDAY November 10

18:00-20:00
REGISTRATION and Proceedings Pickup KINGTHONG, 2F

18:30
Host Reception KINGTHONG, 2F

For Tour Information Visit Tour Desk in Registration Area

TUESDAY November 11

08: 00 KINGTHONG, 2F
On-Site Registration and Badge and Proceedings Pickup
Chairs and Presenters: Test power-point files in KINGTHONG

08:30
Opening Addresses
Jin S Chung, PACOMS-2008 Chair, USA KINGTHONG

Welcome Address
President, King's Mongkut's Univ of KINGTHONG
TechnologyT honburi, Thailand

09:00
1. Opening Plenary Session KINGTHONG

10:00
2. Subsea and Deep Ocean Technologies KINGTHONG

12:00
PACOMS Lunch Room A

13:30
3. Ocean and Wind Energy Technology KINGTHONG

15:40
4. Offshore Environment and Ice Loads KINGTHONG

17:40
PACOMS Executive Committees KINGTHONG

WEDNESDAY November 12

07:30
Chairs and Presenters: Test the power-point files KINGTHONG

08:00
5. Offshore Risers I: Reentry and Design KINGTHONG

10:00
6. Offshore Risers II: Vortex-Induced Vibration KINGTHONG,

12:00
PACOMS Lunch Room A

13:30
7. Offshore Collision, Materials, & Composites KINGTHONG

15:40
8. Geotechnical & Environment Engineering KINGTHONG

THURSDAY November 13

07:30
Chairs and Presenters: Test the power-point files in KINGTHONG

08:00
9. Tsunami & Freak Waves: Modeling & Simulation KINGTHONG

10:00
10. Wave-Structure Interactions KINGTHONG

12:00
PACOMS Lunch Room A

13:30
11. Coastal Waves: Modeling & Simulation KINGTHONG

15:40
12. Wave-Seabed and Wave-Breakwater Interactions: Experiment KINGTHONG

PACOMS Banquet

18:30 Thursday KINGPETCH, 3F

FRIDAY November 14

8:30-18:00
SYMPOSIUM TOURS: Ayutthaya Province, old capital and UNESCO World Heritage Site
Make your reservation in advance by indicating in the advance registration form; or email to tawich.pul@kmutt.ac.th
Bus departure at 8:30, and return to Hotel at 18:00
Free of charge to the PACOMS-2008 Symposium participants and spouses.



Sponsored by
International Society of Offshore and Polar Engineers (ISOPE)
PTT Exploration and Production Public Company Limited
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Hosted by
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Dr. Tawich Pulngern, King Mongkut's University of Technology
Thonburi, Bangkok, Thailand

Symposium Co-Chairmen

Prof. Jin S. Chung, ISOPE, Cupertino, California, USA
Prof. Somchai Chucheepsakul, King Mongkut's University of Technology
Thonburi, Bangkok, Thailand

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Prof. Jin S. Chung, ISOPE, California, USA
Prof. Bin Teng, Dalian Univ of Tech, China
Prof. A.T. Bekker, Far Eastern State Tech Univ, Russia
Dr. Seok Won Hong, Maritime and Ocean Engineering Research Inst
(MOERI, formerly KRISO), Korea
Prof. Wataru Koterayama, RIAM, Kyushu Univ, Japan
Prof. S. Naito, Osaka Univ, Japan
Dr. M. Sayed, National Research Council Canada, Ottawa
Prof. S. Chucheepsakul, King Mongkut's Univ of Technology Thonburi,
Thailand

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Prof. Chai Jaturapitakkul, King Mongkut's University of Technology
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TECHNICAL PROGRAM

The Eighth (2008) ISOPE Pacific/Asia Offshore Mechanics Symposium Bangkok, Thailand, November 10–14, 2008

All events will take place at Asia Hotel Bangkok. The changes on titles or authors the PACOMS-2008 International Organizing Committee (IOC) received in writing before August 20, 2008 are reflected in this program. Final corrections will be updated in the Conference Proceedings (ISBN 978-1-880653-52-4). Proceedings CD-ROM of peer-reviewed papers (350 pp. est.) in 12 sessions will be available from ISOPE during and after the Symposium.

Further updates will be posted on www.isopec.org.



MONDAY November 10

18:00-20:00
REGISTRATION and Proceedings Pickup KINGTHONG, 2F

18:30
Host Reception KINGTHONG, 2F

TUESDAY November 11

0800 KINGTHONG, 2F
On-Site Registration and Badge and Proceedings Pickup

1. OPENING PLENARY SESSION

Tuesday November 11 **08:30** KINGTHONG, 2F

Chair: Somchai Chucheeepsakul, King Mongkut's University of Technology
Thonburi, Bangkok, Thailand
Co-Chair: Seok Won Hong, Maritime and Ocean Engineering
Research Inst, Daejeon, Korea

Opening Addresses

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

Welcome Address

President, King's Mongkut's Univ of Technology Thonburi,

Thailand

Pacific Asian Cooperation on Ocean Technology
Chung, Jin S, ISOPE, Cupertino, California, USA

2. SUBSEA AND DEEP OCEAN TECHNOLOGIES

Tuesday November 11 10:00 KINGTHONG, 2F

Chair: Kazuaki Itoh, JAMSTEC, Japan
Co-Chair: Aujchara Weerawong, S1 construction, PTT Exploration
and Production Public Company Limited (PTTEP), Thailand

Sea Trials of the New ROC ABISMO to Explore the Deepest Parts of Oceans

Kazuaki Itoh, Tomoya Inoue, Junichiro Tahara, Hiroyuki Osawa, Hiroshi Yoshida, Shojiro Ishibashi, Yoshitaka Watanabe, Takao Sawa, Taro Aoki, Japan Agency for Marine Earth Science and Technology, Japan

Experimental Research of ROV's Vehicle which Runs in Crawler [Oral Presentation]

Kazuaki Itoh, Tomoya Inoue, Junichiro Tahara, Japan Agency for Marine Earth Science and Technology, Japan

Synthesis of the Control System of Vectored Thruster Underwater Vehicle Spatial Motion

Vladimir Filaretov, Dmitry Yukhimets, Inst for Automation and Control Processes, Far Eastern Branch of Russian Academy of Sciences, Russia

Precise UUV Positioning Based on Images Processing for Underwater Construction Inspection

Alexey A. Boreyko, Sergey A. Moun, Alexander Ph. Scherbatyuk, Institute for Marine Technology Problems, Far Eastern Branch of Russian Academy of Sciences, Russia

Dynamic Analysis of the Complete Integrated Deep-ocean Mining Pilot System Based on Single-body Tracked Miner and Discrete Element Model of Pipe

Shaojun Liu, Yu Dai, Central South Univ/ The State Key Laboratory of Deep Sea Mineral Resources Development and Utilization Technology, Xiren Cao, Hunan Univ; Yan Li, Li Li, Central South Univ, China

The Lifting Installation of Manganese Nodules and Pump Test

Ning Yang, Dasheng Tang, Ling Yang, Changsha Research Institute of Mining & Metallurgy, China

Lunch

Tuesday November 11 12:00 Room A

3. OCEAN AND WIND ENERGY TECHNOLOGY

Tuesday November 11 13:30 KINGTHONG, 2F

Chair: Seok Won Hong, Maritime and Ocean Engineering Research Inst, Daejeon, Korea
Co-Chair: Victor V Cheboxarov, Inst for Automation and Control

Processes, FEB of Russian Academy of Sciences; Russia

Practical Calculation of Parabolic Overtopping Wave Energy Converter

Zhen Liu, Ocean Univ of China, China; Beom-Soo Hyun, Korea Maritime Univ; Key-yong Hong, Maritime and Ocean Engineering Research Inst/KORDI, Korea

CFD Analysis of Water Ring Arising about Floating Rotor of Offshore Wind Power Plant

Victor V Cheboxarov, Inst for Automation and Control Processes, Far Eastern Branch of Russian Academy of Sciences; Valery V Cheboxarov, Far Eastern State Tech Univ, Russia

Dynamic Response Evaluations of Offshore Platform with Wind Energy Production

Kenji Kawano, Yukinobu Kimura, Min-Su Park, Kagoshima Univ, Japan

Salinity Gradient – Source of Energy in the Coastal Zone of Ocean

V V Knyazhev, Inst of Marine Technology Problems, Far Eastern Branch of Russian Academy of Sciences, Russia
Russia

4. OFFSHORE ENVIRONMENT AND ICE LOADS

Tuesday November 11 15:40 KINGTHONG, 2F

Chair: A T Bekker, Far-Eastern State Technical Univ, Russia

Co-Chair: Wu-Joan Kim, Mokpo National Univ, Korea

Unsteady Effect of Successive Shock Pulses on a Floating Sheet

Victor M Kozin, Alexandra V Pogorelova, Inst of Machining and Metallurgy, Far Eastern Branch of Russian Academy of Sciences, Russia

Simulation of Impact of Steady Ice Features Forming Extreme Ice Loads on Engineering Objects Offshore Zone

Alexander T Bekker, Olga A Sabodash, Far-Eastern National Tech Univ, Russia

Sustainability of Reclaimed Foreshore – Case Study: Southport Broadwater Parklands

Eric Fernagu, Griffith Univ, Australia/DEME, Belgium; Hong Zhang, Griffith Univ; Rodger Tomlinson, Griffith Centre for Coastal Management, Australia

Scenarios on Estimation of the Ecological Risks of Oil Transport Activity in Russian Far East Offshore Regions

V I Pavlenko, E K Glukhareva, Arctic Research Center, Russian Academy of Sciences, Russia

18:00
PACOMS Executive Committees

Room B

WEDNESDAY November 12

5. OFFSHORE RISERS I: REENTRY AND DESIGN

Wednesday November 12 8:00 KINGTHONG, 2F

Chair: Han-Il Park, Korea Maritime Univ, Busan, Korea
Co-Chair: Narakorn Srinil, University of Aberdeen, UK

Model Experiments of Reentry Control Based on Riser Pipe Dynamics

Wataru Koterayama, Hiroyuki Kajiwara, Masahiko Nakamura, Kyushu Univ ; Yukio Kadomoto, Kazuyuki Igarashi, Toshiyuki Ioki, Mitsui Eng & Shipbuilding Co, Japan

Fatigue Strength Evaluation of Drill Pipe Constantly Bent in Strong Current

Tomoya Inoue, Masahiko Ozaki, Tsuyoshi Miyazaki, JAMSTEC; Makoto Nishigaki, Koji Setta, Mitsubishi Heavy Industries, Japan

The Effect of Axial Extensibility on Three-Dimensional Behavior of Tensioned Pipes/Risers Transporting Fluid

Chainarong Athisakul, Tinnakorn Monprapussorn, Tawich Pulngern, Somchai Chucheepsakul, King Mongkut's Univ of Technology Thonburi, Thailand

Dynamic Responses of Marine Risers/Pipes Transporting Fluid Subject to Top End Excitations

Jirapol Leklong, Technip Engineering (Thailand) Ltd, Thailand
Somchai Chucheepsakul, King Mongkut's Univ of Technology, Trungkru, Thailand; Sakdirat Kaewunruen, Univ of Wollongong, Australia

Influence of Joint Stiffness on the Free Vibrations of a Marine Riser Conveying Fluid

Sakdirat Kaewunruen, Timothy McCarthy, Univ of Wollongong, Australia; Jirapol Leklong, Technip Engineering (Thailand), Thailand; Somchai Chucheepsakul, King Mongkut's Univ of Technology Thonburi, Thailand

6. OFFSHORE RISERS II: VORTEX-INDUCED VIBRATION

Wednesday November 12 10:00 KINGTHONG, 2F

Chair: Wataru Koterayama, Kyushu Univ, Japan
Co-Chair: Shaojun Liu, Central South University, China

Dynamic Response of Ultra Long Ocean Pipe under Top Axial Excitation [Oral Presentation]

Han-il Park, Korea Maritime Univ, Korea

Numerical Simulation of a Large-scale Riser with Vortex-induced Vibration

Zhengshou Chen, Wu-Joan Kim, Mokpo National Univ, Korea; Dingyong Yu, Ocean Univ of China, China; Jong-Su Choi, Sup Hong, Korea Ocean Research & Development Institute, Korea

New Model for Vortex-induced Vibration of Catenary Riser

Narakorn Srinil, Univ of Aberdeen/MCS; Marian Wiercigroch, Univ of Aberdeen; Patrick O'Brien, Michael Lane, MCS, UK

Flow Control behind a Circular Cylinder by Control Rods in Steady Flow

Ok-Sok Gim, Ministry of Land Transport and Maritime Affairs;
Gyeong-Woo Lee, Mokpo National Maritime Univ; Sang-Hyun Kim,
Inha Univ, Korea

Dynamics of Two Flexible Hanging-off Circular Cylinders in Staggered Configurations

Rudi Walujo Prastianto, Koji Otsuka, Yoshiho Ikeda, Osaka Prefecture
Univ, Japan

Lunch

Tuesday September 19 12:00 Room A

7. OFFSHORE COLLISION, MATERIALS, & COMPOSITES

Wednesday November 12 13:30 KINGTHONG, 2F

Chair: Chai Jaturapitakkul, King Mongkut's University of Technology
Thonburi, Bangkok, Thailand

Co-Chair: Kenji Kawano, Kagoshima Univ, Japan

SSC Resistance of 13% Cr and Super 13% Cr below pH 3.5 in Low H₂S Environment

Yves Gunaltun, Suchada Punpruk, PTTEP; Siriporn Daopiset, King
Mongkut's Univ of Tech North Bangkok, Thailand

A Study on Assessment of Ultimate Strength of Ship Structural Plate with Pitting Corrosion Damification

Yan Zhang, Yi Huang, Gang Liu, Dalian Univ of Tech, china

Analysis of Ship Collision with a Semi-submersible Platform

Somayeh Nouri, Ahmad Reza Mostafa Gharabaghi, Sahand Univ of
Tech; Said Mazaheri, TRI, Iran

Behavior of the Mass Concrete under Biaxial Loading

Yu-pu Song, Dalian Univ of Tech; Huai-liang Wang, Dalian Univ,
China

Long Term Performance of Fly Ash Concrete in Marine Environment

Wichian Chalee, Burapha University, Chonburi and *Chai Jaturapitakku*, King Mongkut's University of Technology Thonburi, Thailand

8. GEOTECHNICAL & ENVIRONMENT ENGINEERING

Wednesday November 12 15:40 KINGTHONG, 2F

Chair: Pornkasem Jongpradist, King Mongkut's University of Technology
Thonburi, Bangkok, Thailand

Co-Chair: Vladimir I Pavlenko, Arctic Research Center, Russian
Academy of Sciences, Russia

Compound Soil with Tyre Chips as a Sustainable Fill in Seismic Zones

Panu Promputthangkoon, Adrian F L Hyde, Univ of Sheffield, UK

Probabilistic Analysis of Laterally Loaded Pile-soil System Using Monte Carlo Simulation

Mohammad Kamruzzaman Talukder, Leonard M Lye, Memorial Univ of Newfoundland, Canada

Spudcan Punch-Through in Thin Clay Crust Overlying Soft Clay

S. Tjahyono, C. F. Leung, Y. K. Chow, National Univ of Singapore, Singapore

Trial Construction of Revetment Backfill Using Dewatered Clay Lumps

M. Nakamichi, Y. Yano, H. Migita, Kyushu Regional Development Bureau; *S. Yamamoto, T. Sato*, Coastal Development Institute of Technology, Tokyo; *Y. Motomura*, Service Center of Port Engineering; *M. Katagiri, M. Ono and M. Terashi*, Nikken Sekkei Civil Engineering, Japan

Modeling Soil-Pile Interaction for Nonlinear Analysis of Structural Systems under Lateral Excitations

Suchart Limkatanyu, Prince of Songkla Univ; Kittisak Kuntiyawichai, Ubonratchathani Univ, Thailand

THURSDAY November 13

**9. TSUNAMI AND FREAK WAVES:
MODELING & SIMULATION**

Thursday November 13 08:00 KINGTHONG, 2F

Chair: Jin S Chung, ISOPE, USA

Co-Chair: Chaoyut Chinnarasri, King Mongkut's University of Technology Thonburi, Bangkok, Thailand

Tsunami Simulation for Wave Run-up in Phuket, Thailand

Chaoyuth Chinnarasri, Weerayuth Pratoomchai, King Mongkut's Univ of Tech Thonburi, Thailand

Deformation Method of Definition of Tsunamigenic and Not Tsunamigenic Earthquakes

G I Dolgikh, S G Dolgikh, V V Ovcharenko, V I Illychev Pacific Oceanologic Inst, Russia

Focusing Models for Generating Freak Waves

Zhaochen Sun, Xizeng Zhao, Dalian Univ of Tech; Yifei Zhang, Jiafa Shen, State Ocean Administration, China

Wind Wave Effects on Surface Stress in Hydrodynamic Modeling

Hong Zhang, Griffith Univ, Australia; S A Sannasiraj, IIT Madras, India

10. WAVE-STRUCTURE INTERACTIONS

Thursday November 13 10:00 KINGTHONG, 2F

Chair: Zhaochen Sun, Dalian Univ of Technology, China

Co-Chair: Jong-Chun Park, Pusan National Univ, Korea

Time-domain Simulation of Wave-Current-Body Interaction

Bin Teng, Zhen Liu, De-zhi Ning, Dalian Univ of Tech, China

Hydroelastic Response of Interconnected Floating Beams over Varying Seabed Profile

Muhammad Riyansyah, C M Wang, Y S Choo, National Univ of Singapore, Singapore

Experimental Investigations on a Non-ship Shaped FPSO Vessel

R Vijayalakshmi, R Pannerselvam, S A Sannasiraj, R Sundaravadivelu, IIT Madras, India; R Nagan Srinivasan, Deepwater Structures Inc, USA

Influence of Varying Inertia Coefficient and Wave Directionality on TLP Geometry

S Chandrasekaran, G Serino, Univ of Naples Federico II, Italy; A K Jain, IIT, India; S Miranda, Univ of Naples Federico II, Italy; A Gupta, Texas A&M Univ, Gaurav, Univ of Minnesota, USA; A Sharma, Banaras Hindu Univ, India

Lunch

Thursday September 20 12:00 Room A

11. COASTAL WAVES: MODELING & SIMULATION

Thursday November 13 13:30 KINGTHONG, 2F

Chair: Bin Teng, Dalian Univ of Technology, China

Co-Chair: Hong Zhang, Griffith Univ, Australia

Numerical Simulation of Wave Flow over the Spiral-reef Overtopping Device

B W Nam, S H Shin, K Y Hong, S W Hong, Maritime & Ocean Engineering Research Inst/MOERI, Korea

Numerical Simulation of Incident Bore Impact Using Three-dimensional Particle Method

Jong-Chun Park, Pusan National Univ; Sung-Jun Jung, Daewoo Shipbuilding and Maritime Engineering; Byung-Hyuk Lee, Sung-Chul Hwang, Pusan National Univ, Korea

Study of Nonlinear Wave Scattering by a Submerged Step in a Fully Nonlinear DBIEM Numerical Wave Tank

Chunrong Liu, Zhenhua Huang, Soon Keat Tan, Nanyang Technological Univ, Singapore

A Vertical Jet's Turbulent Characteristics in Wave Environment: Experimental Study

Yifei Zhang, State Ocean Administration; Feng Zhou, Zhaochen Sun, Dalian Univ of Tech; Li Li, Digilink, China

12. WAVE-SEABED AND WAVE-BREAKWATER INTERACTIONS: EXPERIMENT

Thursday November 13 15:40 KINGTHONG, 2F

Chair: Kittisak Kuntiyawichai, Ubonratchathani University, Ubonratchathani, Thailand

Co-Chair: Guohai Dong, Dalian Univ of Technology, China

Experimental Investigation on the Dynamic Response of Density-stratified Fluid in a Submarine Trench

Wen-Yang Hsu, Yen-Ting Ou, Hwung-Hweng Hwung, Ray-Yeng Yang, National Cheng Kung Univ, Taiwan, China

Laboratory Experiments on the Sliding Failure of a Caisson Breakwater Subjected to Solitary Wave Attack

Miguel Esteban, United Nations Univ, Japan; Nguyen Danh Thao, Ho Chi Minh City Univ of Tech, Vietnam; Hiroshi Takagi, Tomoya Shibayama, Yokohama National Univ, Japan

Experimental Study of Surf Beat Generated on a Submerged Sill

Guohai Dong, Xiaozhou Ma, Yuxiang Ma, Jianwu Xu, Dalian Univ of Tech, China

Hydrodynamic Analysis of Floating Piers in waves

Zahra Tajali, Deep Offshore Technology Corp; Mehdi Shafieefar, Tarbiat Modares Univ; Mahmood Akhyani, Islamic Azad Univ, Iran

The Hydraulic Characteristics of Submerged Breakwater Covered with Functional Block

Byung-Kyu Sohn, Ho-Sang Kim, Seong-Jae Jeong, National Fisheries Research and Development Institute, Korea

18:30

Conference Banquet

KINGPETCH, 3F

FRIDAY November 14

8:30 – 18:00 Symposium Tour to Ayutthaya Province (Old Capital and UNESCO World Heritage Site). Click www.ce.kmutt.ac.th/isope for details.

Cost: Free to the PACOMS-2008 Symposium participants and spouses.

Depart 08:30 from Asia Hotel Bangkok

12:00 – 13:00 Lunch at Ayutthaya

18:00 Return to Asia Hotel Bangkok

Reservation. Deadline for reservation is October 15.

Click www.ce.kmutt.ac.th/isope for details including reservation.



GENERAL INFORMATION

PLACE AND DATE: Bangkok, Thailand, November 10–13, 2008

All ISOPE-PACOMS-2008 Symposium Events and Registration, except Symposium Tour will take place at:

Asia Hotel Bangkok 296 Phayathai Road Rajthavee,
Bangkok, 10140, Thailand
Tel +(66-2) 2150808; fax +(66-2) 2154360
www.asiahotel.co.th

Host Reception (Monday, Nov 10, 18:30) and **Symposium Banquet** (Thursday, Nov 13, 18:30) will be held in KINGPETCH Room.

PARKING: Free parking.

LANGUAGE

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

AIR TRAVEL

Bangkok is one of Asia's most important air transport hubs. The new international airport (Suvarnabhumi Airport) is located about 25 km from downtown Bangkok.

CURRENCY EXCHANGE

Currency can be exchanged either at the airport bank or local bank. Pay attention to the exchange rate fluctuation (34 Baht per US\$1.00 as of August 25, 2008).

AIRPORT TO ASIA HOTEL BANGKOK

The Suvarnabhumi Airport is located about 25 km from **Asia Hotel Bangkok**. Taxi ride is very convenient and cheap. By international standards, the flagfall rate is 35B (1.00 US\$ approx) including the first 2km and it's 5B/km after that. It should be easier for the taxi driver to find the hotel, if you show the driver Asia Hotel Bangkok name in Thai Language: Ask from pacoms8_secretary@kmutt.ac.th.

HOTEL ACCOMMODATION (must use the Reservation Form)

A limited number of rooms for foreign participants are available at the PACOMS venue hotel: Asia Hotel Bangkok.)

Make early room reservation directly by fax or e-mail to Dr. Tawich Pulngern (ISOPE PACOMS-2008 Secretariat), Department of Civil Engineering, King Mongkut's University of Technology Thonburi, Thailand, Fax: +(66-2) 4279063, E-mail: pacoms8_secretary@kmutt.ac.th.

CITY TRANSPORTATION

You could pick-up a city map at Suvarnabhumi Airport and Asia Hotel Bangkok. Taxi is not expensive in Bangkok. The Asia Bangkok is located closely to the BTS Station "Ratchathewi Station" It takes only 3 minutes by walk from the hotel to the BTS Station, then you can comfortably ride to many famous tourist attractions such as Shopping Center, Parks, Hospital, Sites and Monuments. Moreover, you can go practically anywhere in the greater Bangkok metropolitan region by bus. Buses run regularly to all points of the city.

SPOUSE PROGRAM

Choice of various tours and voyages through tour agents will be advised during the PACOMS registration at Asia Hotel Bangkok.

SYMPOSIUM TOUR. Friday, November 14, 08:30 – 18:00
Ayutthaya Province (Old Capital and UNESCO World Heritage).



The Phra Nakhon Si Ayutthaya or “Ayutthaya” in short, is one of Thailand's historical and majestic highlights. Serving as the Thai capital for 417 years (1350 – 1767: Kingdom of Ayutthaya), it was once glorified as one of the biggest cities in the world – a Southeast Asia center for civilizations. More importantly, Phra Nakhon Si Ayutthaya Historical Park, an extensive historical site in the heart of Ayutthaya city, is included in UNESCO's World Heritage list.

Free of charge to the PACOMS-2008 Symposium participants and spouses. **Reservation.** Deadline for reservation is October 15. Click www.ce.kmutt.ac.th/isope for details including reservation. Depart 08:30 from Asia Hotel Bangkok; Lunch at Ayutthaya 18:00 Return to Asia Hotel Bangkok

**PACOMS-2008 ADVANCE SYMPOSIUM
REGISTRATION FEES (if received before October 10)**

REGISTRATION BY MAIL OR FAX (use the Advance Registration Form from www.isopec.org)

Thailand Domestic participants register through PACOMS-2008 Bangkok Secretariat. Please send the Advance Registration Form and Transfer/Transaction Record to ISOPE PACOMS-2008 Bangkok Secretariat, Bangkok, Thailand before September 12, 2008. Otherwise, they will be processed at additional surcharge 1,000 Baht.

Registration Form: Ask from [pacoms8_secretary@kmutt.ac.th](mailto:pacom8_secretary@kmutt.ac.th) .

The participants from outside Thailand.

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

Deadline for non-author participants: October 10.

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

Category	Advance Registration Fee (US \$)*	
	Received before the Deadlines	
<input type="checkbox"/> Author, Co-authors	400	_____
<input type="checkbox"/> Session or Symposium Chair, Co-Chair	400	_____
<input type="checkbox"/> ISOPE Member	400	_____
<input type="checkbox"/> ISOPE member with new application (incl. 2009 membership fee and 1-year journal issues)	490	_____
<input type="checkbox"/> Non-Member	470	_____
<input type="checkbox"/> Spouses (no proceedings)	100	_____

- Full-time Student with 2008 ID Card 300 _____
- Reserve a seat for Friday Symposium Tour Free

* The fee in this table is for the participants. The Symposium registration fee **includes** Host Reception, PACOMS Banquet, tea breaks, lunches and the symposium proceedings.
Registration after deadline costs additional \$80.

REGISTRATION CANCELLATIONS

Request for cancellation of registration by non-authors must be received in writing by **October 15, 2008** to be granted a refund minus US\$80 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\$80 surcharge. The registration desk will be open during the following hours:

Monday, Nov. 10 15:00-17:00 Tuesday, Nov. 11 08:00-11:00

ISOPE PUBLICATION ORDER

A copy of **ISOPE PACOMS-2008 Symposium Proceedings** (CD-ROM, ISBN 1-880653-52-4) is included in the symposium registration fees. A single-volume proceedings in CD-ROM (350 pp. est.) can be ordered by email, fax or air mail at:

\$100 (ISOPE Member \$80) plus \$10 airmail & 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. 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 or email to orders@isope.org for publication order form.)

PACOMS-2008 HEADQUARTERS KINGTHONG Room

Host RECEPTION
 18:00-20:00 Monday, Nov. 10 **KINGTHONG Room, 2F**

PACOMS SYMPOSIUM BANQUET
 18:30-20:30 Thursday, Nov. 13 **KINGPETCH Room, 3F**

AUDIO VISUAL TEST 07:30
 A **power-point** projector connected to PC ([Read](#) Author Information form) and screen is set up during 07:30-17:00 (Tuesday, Wednesday and Thursday) in the session rooms.

INTERNATIONAL PARTICIPANTS AND VISA APPLICATION

International authors, participants or attendees who need help (except financial) can contact: Prof. Somchai Chucheeepsakul or Dr. Tawich Pulngern, **PACOMS-2008 Local Secretariat**, Department of Civil Engineering, King Mongkut's University of Technology Thonburi, Bangkok 10140, Thailand, Tel: +(66-2) 4709145 , **Fax:** +(66-2) 4279063, **E-mail:** pacoms8_secretary@kmutt.ac.th .

Entry Visa. Some participants may be required to apply for an entry visa. Please get an application form at the Thai Consulate in your

country. PACOMS-2008 Secretariat may assist, if filled visa-forms received by Secretariat by **September 15**.

CLIMATE

The November weather in Bangkok is nice and pleasant, as usual. Temperature ranges 25°C~28°C.



King Mongkut's University of Technology Thonburi



Asia Hotel Bangkok and Meetings Rooms



The Grand Palace in Bangkok

HOTEL RESERVATION FORM

(Must Use This Form)

Asia Hotel Bangkok, Bangkok, Thailand

November 10–14, 2008

Asia Hotel Bangkok is the official venue for the PACOMS-2008. For a **guaranteed reservation**, this form must be received **via only fax** no later than October 15:

Fax this form to **Dr. Tawich Pulngern**: +(66-2) 4279063.

(Family name) _____ First (Fore) _____
Surname: _____ & Middle: _____
Circle: Male Female; Title: Mr. Ms. Mrs. Prof. Dr.

Company/Univ.: _____

Address: _____

City _____; Country _____

Postal (ZIP) Code _____; Fax No. _____

Arrival November ____, 2008: Departure November ____, 2008

*(34.0 Bahts = US\$1.00 as of August 25, 2008)

Hotel	Room Choice	Room Rates (Baht)
Asia Hotel Bangkok (Symposium Venue)	Single	1,300
	Twin*	1,500
	Superior Single	1,700
	Superior Twin*	1,900
	Deluxe Single	2,100
	Deluxe Twin	2,300

Note : Room rates include tax and breakfast, but do not include other meals.

* Name of person to share: _____

Hotel accepts Visa Card, Master Card, Express Card and more.

DEADLINE: October 15, 2008

CANCELLATION: Fax the room cancellation to **Dr. Tawich Pulngern** (PACOMS-2008 Secretariat), **15 days or earlier** before your arrival date in the reservation.

Photocopy, Complete, and Send this Form.
Reservation after October 15 is subject to room availability

TECHNICAL PROGRAM

ISOPE PACOMS-2008 Bangkok November 10-14, 2008

Find the Hotel Reservation Form inside this program or download Hotel Reservation Form and Advance Registration Form from www.isopec.org.

Fax symposium registration form to:

Non-Thailand Participants : ISOPE PACOMS-2008 IOC, Fax: +1-650-254-2038 ; meetings@isopec.org

Thailand Participants: ISOPE PACOMS-2008 Secretariat, Fax: +(66-2) 4279063, pacoms8_secretary@kmutt.ac.th.

Ask the visa invitation form from:
pacoms8_secretary@kmutt.ac.th.

Forthcoming ISOPE Meetings

ISOPE-2009 Osaka

The 19th (2009) International
**Offshore (Ocean) and Polar Engineering
Conference, Osaka, Japan, June 19-26, 2009**
Abstract Deadline: October 20, 2008

Online Abstract Submission and Technical Program (available in February) on www.isopec.org.

Call For Papers on www.isopec.org

ISOPE EUROMS-2009 Istanbul
March 8-11, 2009

ISOPE IDOT-2009 Beijing
June 28-July 1, 2009

ISOPE-OMS-2009 Chennai
September 20-24, 2009

ISOPE-2010 Beijing, China
June 20-26, 2010



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