June 28–July 1, 2009
Beijing, China

Third (2009) ISOPE
International Deep-Ocean Technology Symposium:
Deepwater Challenge

ISOPE
IDOT-2009 Beijing
Beijing International Hotel, Beijing, China
June 28–July 1, 2009

Final Program
Invited and Peer-reviewed Papers

South China Sea
MetOcean & Internal Waves
Deepwater Pipelines

Deepwater Risers
Deepwater Pipelines
Deepwater Installation

Organized by:
International Organizing Committee

Sponsored by:
International Society of Offshore and Polar Engineers (ISOPE), USA
China Oilfield Services Limited, China

ISOPE
P.O. Box 189
Cupertino, Calif. 95015-0189, USA
Fax 1–650–254–2038: www.isope.org
Third (2009) ISOPE
International Deep-Ocean Technology Symposium
IDOT 2009 Beijing: Deepwater Challenges
Beijing International Hotel, Beijing, China
June 28–July 1, 2009

Hosted by:
China Oilfield Services Ltd. (COSL), Beijing, China
China Offshore Oil Engineering Co., Ltd., Tianjin, China

Co-sponsored by:
China Oilfield Services Ltd. (COSL), Beijing, China
International Society of Offshore and Polar Engineers (ISOPE), Cupertino, California, USA

Organizing Committees:
International Society of Offshore and Polar Engineers (ISOPE), Cupertino, California, USA
China Oilfield Services Ltd. (COSL), China National Offshore Oil Corp. (CNOOC), Beijing, China

Technical Sessions
Length of presentation: 30 minutes for presentation followed by 10-minute discussions.

SUNDAY June 28

Sightseeing
Limited number of seats (Make reservation using the IDOT-2009 symposium registration form)
Bus departure at 08:30 from Beijing International Hotel (BIH)
Return to hotel: 16:30

17:30-18:20
REGISTRATION and Proceedings Pickup Ballroom Foyer, 2F

COSL Reception

Sunday June 28 18:30 Ballroom

Host: Jiang, Xizhao, President and General Manager, China Offshore Oil Engineering Co. Ltd., CNOOC, Tianjin, China

MONDAY 09:00

SESSION 1. SYMPOSIUM OPENING SESSION

Monday June 29 09:00 Ballroom

Chair: Jiang, Xizhao, President and General Manager, China Offshore Oil Engineering Co. Ltd., CNOOC, Tianjin, China

09:05

Symposium Opening
Chung, Jin S, IDOT-2009 Symposium Chair, ISOPE, Cupertino, California, USA
Welcome Address

Dong, Weiliang, IDOT-2009 Symposium Co-Chair and Executive Vice President, China Oilfield Services Ltd., CNOOC, Beijing, China

Keynote Address

Endeavor of Deepwater Installations for Oil/Gas in South China Sea (Oral Presentation)
Jin, XiaoJian, General Manager, CNOOC Engineering and Construction, Beijing, China

Coffee Break

SESSION 2. SOUTH CHINA SEA I

Monday June 29 10:20 Ballroom

Chair: Chung, Jin S., ISOPE, Cupertino, California, USA
Co-Chair: Duan, Menglan, China University of Petroleum, Beijing, China

Calculation of the Extreme Wind, Wave and Current in Deep Water of the South China Sea
Qi, Yiquan and Shi, Ping, LED, South China Sea Institute of Oceanology, Chinese Academy of Sciences, Guangzhou, Guangdong Province, China

Satellite Remote Sensing of Nonlinear Internal Waves in the South China Sea
Liu, Antony K., Ocean Sciences Branch, NASA Goddard Space Flight Center, Greenbelt, Maryland USA; Hsu; Ming-Kuang, General Education Center, Technology and Science Institute of Northern Taiwan Taipei, Taiwan

Development of Artificial Seabed Technology and Conduct of Pre Trial Well in the South China Sea
Guo, Yongfeng, Ji, Shaojun, Tang, Changquan, China Oilfield Services Ltd., Beijing, China

Group Lunch in Ballroom 2

SESSION 3. SOUTH CHINA SEA II

MONDAY 13:30

Monday June 29 13:30 Ballroom

Chair: Wu, HuaiZhi Technical Director, China Oilfield Services Ltd. (COSL), Beijing, China
Co-Chair: **Saint-Marcoux**, Jean-François, Acergy, London, UK

**Reliability Analysis of the Extreme Responses of Moored Structures**  
*Fontaine, E*, AMOG Consulting, Melbourne, Australia

**Spectral-based Fatigue Analysis for Deepwater Semi-submersible Rig in South China Sea**  
*Xie, Bin, Xie, Wenhui*, Deepwater Engineering Key Lab, China National Offshore Oil Corporation Research Center, Beijing, China

**Coffee break**

**Minimum Deepwater Production Risers: Design, Construction, Assessment of Interference,**  

**Dry or Wet Trees in Deepwater Developments from a Riser System Perspective**  
*Lim, Frank*, 2H Offshore Engineering Ltd., Woking, Surrey, United Kingdom

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**SESSION 4. DEWATER RISERS AND PIPELINES**

**Tuesday June 30 09:00 Ballroom**

Chair: *Liu*, ShuMin, China Oil field Services Ltd., CNOOC, Beijing, China  
Co-Chair: *Yang*, Xiaogang, China Offshore Oil Engineering Co., CNOOC, Tianjin, China

**Deepwater Risers and Pipelines —— More Than Analysis**  
*Kan, Wan C.*, ExxonMobil Development Co, Houston, TX, USA

**Conceptual analysis of stinger for ultra-deepwater S-lay**  
*Wang, Lin*, Fabrication Sub-company, China Offshore Oil Engineering Co. Ltd., Tianjin, China; *Zhang*, Xiangfeng, *Lv, Wei, Yue, Qianjin*, Dalian University of Technology, Dalian, China; *He, Ning, Zhou, Lei*, Engineering Technology Center, China Offshore Oil Engineering Co. Ltd., Tianjin, China

**Exploring the Challenges of Pipe-in-Pipe (PIP) Flowline Installation in Deep-Water**  
*Sun, Jason, Jukes, Paul, Eltaher, Ayman*, JP Kenny Inc, Houston, Texas, USA

**Coffee break**

**A New Lifting System for Installation of Risers in Deeper Water**  
*Jiang, Xizhao, He, Ning*, Offshore Oil Engineering Co., Ltd., Tianjin, China; *Duan, Menglan*,
The Latest Developments in the Design and Simulation of Deepwater Subsea Oil and Gas Pipelines using FEA

Jukes, Paul, Eltaher, Ayman, Sun, Jason, J P Kenny, Inc., Houston, Texas, USA

Group Lunch in Ballroom 2

TUESDAY 13:00

Session 5. DEEPWATER AND DEEP-OCEAN POSITIONING CONTROL

Tuesday June 30  13:30 Ballroom

Chair: Kan, Wan C, ExxonMobil Development Co, Houston, TX, USA
Co-Chair: Wu, Huaizhi, China Oil field Services Ltd., CNOOC, Beijing, China

Station-keeping of FPSOs in Extreme Environments
Duggal, A. S., Heyl, C. N., and Ryu, S, SOFEC Inc., Houston, TX, USA

Chung, Jin S., ISOPE, Cupertino, California, USA

Coffee break

Session 6. SYMPOSIUM SUMMARY AND CLOSING

Tuesday June 30  15:30 Ballroom

Chair: Chung, Jin S., ISOPE, Cupertino, California, USA
Co-Chair: Liu, Yifeng, China National Offshore Oil Corporation (CNOOC) Research Center, Beijing, China

SYMPOSIUM BANQUET AND CLOSING CEREMONY

Tuesday June 30  19:00 Beijing International Hotel, Ballroom

Hosted by COSL
All ISOPE-IDOT-2009 Beijing Symposium events and registration will take place at:

**Beijing International Hotel (BIH)**

ISOPE IDOT-2009 Group  
No 9 Jianguomennei Avenue  
Beijing 100005, China  
Tel +(86-10) 8513-5559; fax +(86-10) 6512 9961  
Candywang8214@yahoo.com.cn;  www.bih.com.cn

**AIRPORT TO BEIJING INTERNATIONAL HOTEL**

The Beijing Airport is located in the northeast of the city and Beijing International Hotel. Taxi ride is very convenient and not expensive.

**BEIJING INTERNATIONAL HOTEL (BIH) ACCOMMODATION** *(must use the Reservation Form)*

Email your arrival and departure date/time to Candy Wang  
E-mail: Candywang8214@yahoo.com.cn;  fax +(86-10) 6512 9961

**SYMPOSIUM TOUR —BEIJING** Sunday, June 28, 08:30 – 16:30  
Make early reservation using Symposium Registration Form

**IDOT-2009 ADVANCE SYMPOSIUM REGISTRATION**

**REGISTRATION** by Email or Fax *(use the Advance Registration Form from www.isope.org)*

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

**Deadline for the participants:** June 1. *Registration after deadline costs additional $100.*

All persons attending the symposium are required to register, pay the appropriate fee, and get a symposium badge. The Symposium registration fee *includes* COSL Reception, IDOT Banquet, tea breaks, lunches and the symposium proceedings.

**REGISTRATION CANCELLATIONS**

Request for cancellation of registration by non-authors must be received in writing by June 5, 2009 to be granted a refund minus US$100 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$100 surcharge. The registration desk will be open during the following hours:

Sunday, June 28 17:30-18:20  Monday, June 29 08:00-09:00

ISOPE PUBLICATION ORDER
A copy of ISOPE IDOT-2009 Beijing Symposium Proceedings (CD-ROM, ISBN 1-880653-73-9) is included in the symposium registration fees. Single-volume proceedings in CD-ROM (110 pp. est.) can be ordered by email, fax or mail at:

$100 (ISOPE Member $80) plus $10 airmail & handling.

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VISA APPLICATION
Entry Visa. Some participants may be required to apply for an entry visa. Please get an application form at the People’s Republic of China in your country. International authors, participants or attendees who need help (except financial) can email your visa questions to TINA -- wangyongx@COSL.COM.CN or woshizhu2007@hotmail.com

CLIMATE
The June weather in Beijing is nice and pleasant. Temperature ranges 20°C~30°C. Check the internet for weather forecast.