

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.isopec.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.



TECHNICAL PROGRAM

The Third (2009) ISOPE International Deep-Ocean Technology Symposium **Proceedings** of peer-reviewed papers (ISBN 978-1-880653-73-9) will be available CD-ROM from ISOPE during and after the Symposium.

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

MONDAY 13:30

SESSION 3. SOUTH CHINA SEA II

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,

Saint-Marcoux, Jean-François, Acergy, London, UK; *Abelanet, Marin*, Acergy, Singapore, Singapore

Dry or Wet Trees in Deepwater Developments from a Riser System Perspective

Lim, Frank, 2H Offshore Engineering Ltd., Woking, Surrey, United Kingdom

TUESDAY 09:00

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, Ly, 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*,

An, Chen, China University of Petroleum, Beijing, China; *Wang, Yi*, Dalian University of Technology, Dalian, China

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

Motion and Positioning Control of Deep-Ocean Ship–Riser–Equipment System, When Going Deeper and Deeper: From Deep-Ocean Test Experiences

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 INTERNATIOL 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.isopec.org)

Register directly through ISOPE, California, USA: meetings@isopec.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
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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.

