

October 4-7, 2016
Gold Coast, Australia

<http://www.isopec.org/conferences/conferences.htm>
www.griffith.edu.au/conference/pacom-2016

The Twelfth (2016) ISOPE
Pacific-Asia
Offshore Mechanics
Symposium



Draft (July 15)

Preliminary Program

Invited and Peer-reviewed Papers from:

UK, France, Germany, Russia, UAE, Libya, India,
Malaysia, Singapore, Indonesia, Thailand, Australia,
China, Korea, Taiwan China, Japan, Canada, USA

Hydrodynamics & CFD	Wind and Ocean Energy
Coastal Dynamics	Subsea, Pipelines, Risers
Offshore, Ocean Technology	Underwater Systems
Arctic Transport & Ice	Environment

Organized by:

ISOPE International Organizing Committee (IOC) and Local Organizing Committee (LOC); Griffith University

Sponsored by:

International Society of Offshore and Polar Engineers (ISOPE) with Cooperating organizations: Griffith University, Gold Coast Tourism

Hosted by:

PACOMS-2016 Gold Coast Secretariat and LOC
e-mail: pacom2016@griffith.edu.au
Tel: +61 7 55529015



ISOPE
P.O. Box 189
Cupertino, Calif. 95015-0189
USA; www.isopec.org

The PACOMS-2016 participants and PACOMS Executive Committee, International Organizing Committee and Local Organizing Committee would like to thank:

**Supporters of
ISOPE PACOMS-2016
Gold Coast Symposium**



**ISOPE-2017
San Francisco, California, USA**

The 27th (2017) International
Ocean and Polar Engineering Conference
San Francisco, California, USA
June 25-30, 2017

Call For Papers

Abstract Deadline: **October 20, 2016**
A full version on www.isopec.org or ask meetings@isopec.org.

Abstract Submission (now):
<http://www.isopec.org/call4papers/2015/HowToSubmitAbstractOnline.htm>
and Technical Program (in February, 2017) on
www.isopec.org; Fax 1-650-254-2038

Welcome to PACOMS-2016 Gold Coast

We greatly appreciate the excellent responses and help we have received from colleagues around the North America, Oceania, Europe and Asia in the successful organization of the 12th ISOPE Pacific/Asia Offshore Mechanics Symposium (PACOMS-2016), Gold Coast, Australia, October 4-8, 2016. The symposium features 18 sessions of peer-reviewed papers and invited papers from 18 Asian, North American 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 Shanghai, 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
 - 1st (2013) Manganese Steel, Anchorage
 - 1st (2014) MRRP in Petrochemicals, Busan
 - 1st (2016) Underwater Systems, Rhodes

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-2016 Symposium in Gold Coast.

Jin S. Chung, Chair and **Hong Zhang**, Co-Chair
The 12th ISOPE PACOMS-2016 Symposium

TUESDAY October 4

All sessions will be held at Crowne Plaza Surfers Paradise

16:00 - 19:00
On-Site Registration and Badge and **Ballroom**
Proceedings Pickup **Lobby**

18:30 - 20:00
Welcome Cocktail Reception **Poolside**

WEDNESDAY October 5

8:00
Chairs and Presenters: Test the PPT files

8:00 - 12:30
On-Site Registration and Badge and **Ballroom**
Proceedings Pickup **Lobby**

8:30

1. Opening Plenary Session **Room Phoenix**
Chair: Hong Zhang, Griffith University, Australia
Co-chair: Sa Young Hong, KRISO, Korea

Symposium Opening Address

PACOMS Welcome Address

Keynote Address

10:00
Coffee/Tea Break **Prefunction Area**

10:20
2. Wind & Ocean Energy I **Room Phoenix**
3. Mechanics & Structures **Room Monaco II**

12:20
Lunch **Relish Restaurant**

13:30
4. Hydrodynamics I **Phoenix**
5. Wind & Ocean Energy II **Monaco II**

15:30
Coffee/Tea Break **Pre Function Area**

15:50
6. Hydrodynamics II **Phoenix**
7. Arctic Transport & Ice Mechanics **Monaco II**

19:00
PACOMS Executive Committees **TBA**

Hinterland half day tour including Springbrook National Park

First-come-first-serve basis

<http://www.isopec.org/conferences/conferences.htm>



Sponsored by

International Society of Offshore and Polar Engineers (ISOPE)
Griffith University, Australia
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Korea Society of Ocean Engineers (KSOE)
China Society of Ocean Engineers (CSOE)
Engineering Institute of Thailand (EIT)
Engineers Australia (EA)
The Institution of Engineers Indonesia (PII)
Taiwan Society of Ocean Engineering (TSOE)
International Society of Offshore and Polar Engineers (ISOPE)

Hosted by

PACOMS 2016 Australia LOC

Local Symposium Secretariat

Prof. Hong Zhang, Griffith University, Australia

Symposium Co-Chairs

Prof. Jin S. Chung, ISOPE, Cupertino, California, USA
Prof. Hong Zhang, Griffith University, Australia

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Prof. A.T. Bekker (Far Eastern Federal Univ, Russia)
Mr. Chuan Cao, CNPC, China
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Prof. Hua Liu, Shanghai Jiao Tong Univ, China
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Dr. A. Nezamian, Advisian, Australia
Prof. Bin Teng, Dalian Univ of Tech, China)
Dr. Alan Wang, CNOOC-COEC, China
Prof. Hong Zhang, Griffith Univ, Australia

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Dong Jeng	Griffith University
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TECHNICAL PROGRAM

The Twelfth (2016) Pacific-Asia Offshore Mechanics Symposium

ISOPE PACOMS-2016

Gold Coast, Australia, October 4–7, 2016

All technical session and function events will take place at **Crowne Plaza Surfers Paradise, Gold Coast, Australia**. Onsite registration will commence on Tuesday, October 4, 2016. The changes on titles or authors the PACOMS-2016 International Organizing Committee (IOC) received in writing before **August 2, 2016** are reflected in this program. Final corrections will be updated in the Symposium Proceedings (**ISBN 978-1-880653-98-2, ISSN 1946-004X**). Proceedings CD-ROM of peer-reviewed papers (**650 pp. est.**) in **18** sessions will be available from ISOPE during and after the Symposium.

PACOMS Symposium proceedings are **indexed by Engineering Index, EI Compendex, Scopus**. Further updates will be posted on www.isopec.org.

SYMPOSIUM TOUR: October 7, Friday

13:30-17:00

Hinterland - Springbrook National Park sponsored by ISOPE.

Reservation on first-come-first-serve.

Download form from:

<http://www.isopec.org/conferences/conferences.htm> > PACOMS-2016, or
Email to isopec-2@isopec.org for a form



GENERAL INFORMATION

PLACE AND DATE: Gold Coast, Australia, October 4-7, 2016

All ISOPE-PACOMS-2016 Symposium and Social Events will take place at the venue **Crowne Plaza Surfers Paradise, Gold Coast, Australia**, the official venue for the Symposium.

Crowne Plaza Surfers Paradise
2807 Gold Coast Highway
Surfers Paradise, QLD, 4217, Australia
Tel: +61 7 5592 9900
<http://www.crowneplazasurfersparadise.com.au/>

HOTEL RESERVATION ONLINE BOOKING

<https://aws.passkey.com/g/55077295>

[/www.griffith.edu.au/_data/assets/pdf_file/0005/790709/Conference-Booking-Form-12th-ISOPE-Pacific-Asia-Offshore-Mechanics-Symposium.pdf](http://www.griffith.edu.au/_data/assets/pdf_file/0005/790709/Conference-Booking-Form-12th-ISOPE-Pacific-Asia-Offshore-Mechanics-Symposium.pdf)

SYMPOSIUM REGISTRATION FORM

Download from www.isopec.org > Program > Symposium > PACOMS-2016

Host Reception

Tuesday, Oct. 4, 2016, 18:30, Poolside

Symposium Banquet

Thursday, Oct. 6, 2016, 19:30, **Room TBA**.

PARKING: Free parking.

LANGUAGE

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

AIR TRAVEL

Gold Coast is the host city of PACOMS-2016. There are 2 airports you can fly into to get to the conference: Brisbane and Gold Coast (Coolangatta) Airports. Brisbane Airport is about 80 km from the venue while Coolangatta Airport is about 30 km. Most international airlines fly into Brisbane and a smaller number fly direct to Coolangatta. However, if you are combining the conference with a holiday and you intend to arrive or depart via another airport such as Sydney/Melbourne, you can save time and money if you organize your domestic flight to Coolangatta Airport.

CURRENCY EXCHANGE

Pay attention to the exchange rate fluctuation. (A\$1 = US\$0.73 as of May 12, 2016).

AIRPORT to Crowne Plaza Surfers Paradise

Please find the travel information at
www.griffith.edu.au/conference/pacoms-2016/travel-and-visa-information

Brisbane International Airport to Crowne Plaza Surfers Paradise
 Train (A\$30.30): Take the Airtrain to Nerang Station,
 Shuttle Bus: A\$49 per adult each way or A\$92 return
 Taxi: A\$200-\$280

Gold Coast/Coolangatta Airport Transfer to Crowne Plaza Surfers Paradise
 Shuttle Bus (A\$22 per adult each way or \$41 return)
 Taxi (A\$50 for a sedan, or A\$65 for a Maxi Taxi.)

**PACOMS-2016 ADVANCE REGISTRATION FEES
 (if received before September 11)**

REGISTRATION. Use the Advance Registration Form from www.isopec.org

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 Advance Symposium Registration:

1) April 20, 2016 for one presenter per paper: No cancellation refund granted.

2) September 12, 2016 for others.

Complete and send this Registration Form with correct payment amount in US\$. The fee-paid participants will receive confirmation. If received after the deadline, the sender registers on site with a surcharge of US\$150.

Registration after the deadline below costs additional \$150.

Complete this form with correct amount to reach **ISOPE** by **applicable deadlines.**

Download our form from:

[http://www.isopec.org/conferences/conferencesINT.htm#RegionalISOPE symposia](http://www.isopec.org/conferences/conferencesINT.htm#RegionalISOPE_symposia)

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	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. 2016 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 2016 ID Card	400	_____
<input type="checkbox"/> PACOMS Banquet	Free	_____
<input type="checkbox"/> Booking Friday Afternoon Tour	ISOPE-sponsored	Online**

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

** <http://www.isopec.org/conferences/conferences.htm>

REGISTRATION CANCELLATIONS

Request for cancellation of registration by non-authors must be received in writing by **September 12, 2016** 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:

Tuesday, Oct.4 18:00-19:00

ISOPE PUBLICATION ORDER

A **PACOMS-2016 Symposium Proceedings** (CD-ROM, ISBN 978-1-880653-98-2, ISSN 1946-004X) is included in the symposium registration fees. A single-volume proceedings in CD-ROM (650 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 . 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 > Orders or email to orders@isope.org for publication order form.)

PACOMS-2016 HEADQUARTERS

HOST RECEPTION

18:30-20:00 Wednesday, Oct. 4 **Poolside, Crowne Plaza**

PACOMS SYMPOSIUM BANQUET

19:30-22:00 Thursday, Oct. 6 **Room TBA**

PPT TEST 08:00 daily

Hotel Lobby

A **power-point** projector connected to PC ([Read](#) Author Information form) and screen is set up during 08:00-17:00 (Oct. 5-7) in the session rooms.

INTERNATIONAL PARTICIPANTS AND VISA APPLICATION

International authors, participants or attendees who need help (except financial) can contact: Prof. Hong Zhang, **PACOMS-2016 Griffith University Local Secretariat**
Email: pacoms2016@griffith.edu.au

Entry Visa to Australia. See details at www.griffith.edu.au/conference/pacoms-2016/travel-and-visa-information

PACOMS-2016 Local Secretariat will assist, if the request for invitation letter is received by August 10, 2016.

CLIMATE

The October weather in Gold Coast is fine and warm, temperature ranges 15°C~25°C.



About Gold Coast, please go to <http://www.visitgoldcoast.com/>



TECHNICAL PROGRAM
PACOMS-2016 Gold Coast
Gold Coast, Australia, October 4-7, 2016

*Download the Hotel Reservation Form and Advance
Registration Form from*
<http://www.isopec.org/conferences/conferences.htm>
> PACOMS-2016.

Forthcoming ISOPE Meetings

ISOPE-2017 San Francisco

The 27th (2017) International
Ocean and Polar Engineering Conference
San Francisco, CA, USA, June 25-30, 2017

Abstract Deadline: October 20, 2016

Online Abstract Submission

[http://www.isopec.org/call4papers/2017/HowToSubmit
AbstractOnline.htm](http://www.isopec.org/call4papers/2017/HowToSubmitAbstractOnline.htm) and Technical Program
<http://www.isopec.org/conferences/conferences.htm>
Call For Papers on www.isopec.org

Including additional ISOPE symposia sessions:

*Arctic Science and Tech Arctic Materials -
Renewable Energy and Environment- Frontier Energy Tech-
Sloshing- Tsunami and Safety Underwater System
Strain Based Design- High-performance Materials (HPM)
Asset Integrity Manganese Steel*

OMS(OMGH)-2017 Sapporo, Japan

12th ISOPE Ocean Mining & Gas Hydrates Symposium
Sapporo, Japan, September 13-15, 2017
www.deepoceanmining.org : www.isopec.org

ISOPE-2018 Sapporo

28th International Ocean and Polar Engineering Conference
Sapporo, Japan, June 10-15, 2018

PACOMS-2018 Jeju Island (visa-free)

13th ISOPE Pacific-Asia Offshore Mechanics Symposium
Jeju Island, Korea, October, 2018



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