

November 17-20, 2002  
Daejeon, Korea

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**The Fifth (2002) ISOPE  
Pacific/Asia  
Offshore Mechanics  
Symposium**

**ISOPE  
PACOMS-2002**

**Lotte Hotel Daejeon, Daejeon, Korea  
November 17-20, 2002**

**Technical Program**

**Invited and Peer-reviewed Papers**

**Underwater Research in Asia  
Underwater Vehicle &  
Control**

**Ship Control  
Hydrodynamics &  
Control**

*Organized by:*

Symposium Organizing Committee  
Local Organizing Committee

*Sponsored by:*

International Society of Offshore and Polar Engineers (ISOPE)

*with cooperating organizations:*

Korea Research Inst of Ships and Ocean Engineering (KRISO)

Korea Committee for Ocean Resources and Engineering (KCORE)

[ISOPE PACOMS-2002 secretariat](#)

KRISO, 171 Jang-dong, Yusong-gu, Daejeon 305-600, Korea

Tel: +82-42-868-7520; Fax: +82-42-868-7519



## Welcome to ISOPE PACOMS-2002

We greatly appreciate the excellent responses and help we have received from colleagues around the world in the successful organization of the 5th ISOPE Pacific/Asia Offshore Mechanics Symposium (ISOPE PACOMS-2002), Daejeon, November 17-20, 2002. The symposium features **9 sessions of peer-reviewed papers** and **invited papers** from Pacific Rim countries. This year's focus is on *control technologies in ocean engineering*.

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 24 successful international meetings:

- The 1st (1990) ISOPE *European Offshore Mechanics Symposium* (ISOPE EUROMS-90) held in Trondheim.
- The 1st (1990) ISOPE *Pacific/Asia Offshore Mechanics Symposium* (ISOPE PACOMS-90) held in Seoul.
- The 1st (1995) ISOPE *Ocean Mining Symposium* (ISOPE OMS-95) held in Tsukuba.
- The 1st (1996) ISOPE *International Deep-Ocean Technology Symposium and Workshop (IDOT-96)* held in Los Angeles.
- The *Annual ISOPE Conference*, starting in Edinburgh, 1991 has been held in San Francisco, Singapore, Osaka, The Hague, Los Angeles, Honolulu, Montréal, Brest, Seattle, Stavanger and Kitakyushu. Since 1992, the annual ISOPE Conference has been held with the world's largest technical program of its kind with refereed papers.

On behalf of PACOMS Executive Committee, Symposium Organizing Committee and Local Organizing Committee, it is our pleasure to welcome participants to the ISOPE PACOMS-2002 Symposium in Daejeon.

**Jin S. Chung**, PACOMS Executive Committee and Symposium  
Organizing Committee  
and  
**Seung-Il Yang**, Local Organizing Committee

**SUNDAY November 17**

18:00  
**ISOPE PACOMS-2002 EC, SOC and LOC Meeting** Topaz

**MONDAY November 18**

09:00-13:30  
**SYMPOSIUM RESISTRATION** Crystal Ballroom Room Lobby  
10:30 – 13:00  
**PACOMS EC MEETING** Topaz

13:30 – 13:50  
**SYMPOSIUM OPENING** Crystal Ballroom  
Opening Address: KORDI President  
Welcome Address: Symposium Chair, KCORE President

14:00  
**1. REVIEW OF UNDERWATER RESEARCH IN ASIA** Crystal Ballroom

16:20  
**2. UNDERWATER VEHICLE AND CONTROL I : SYSTEM DESIGN** Crystal Ballroom

18:30-20:30  
**KRISO RECEPTION** Sapphire Ballroom

**TUESDAY November 19**

09:00  
**3. HYDRODYNAMICS AND CONTROL** Crystal Ballroom

10:30  
**4. UNDERWATER VEHICLE AND CONTROL II: POSITIONING & NAVIGATION** Crystal Ballroom

12:30  
**Group Lunch**

13:30  
**5. SHIP CONTROL I** Crystal Ballroom

15:30  
**6. UNDERWATER VEHICLE AND CONTROL III: SEA FLOOR VEHICLES** Crystal Ballroom

19:00-21:00  
**SYMPOSIUM BANQUET** Sapphire Ballroom

**WEDNESDAY NOVEMBER 20**

09:00  
**7. SHIP CONTROL II** Crystal Ballroom

11:00  
**8. UNDERWATER VEHICLE AND CONTROL** Crystal Ballroom  
**IV: MOTION CONTROL (1)**

12:30  
**Group Lunch**

14:00  
**9. UNDERWATER VEHICLE AND CONTROL** Crystal Ballroom  
**V: MOTION CONTROL (2)**

15:30-17:00  
**SYMPOSIUM TOUR: KRSIO Facilities**



***Sponsored by:***

International Society of Offshore and Polar Engineers (ISOPE)  
Korea Committee for Ocean Resources and Engineering (KCORE)  
Korea Research Inst. of Ships and Ocean Engineering (KRISO), KORDI,  
Korea

***Cooperated by:***

The Society of Naval Architects of Korea (SNAK)  
The Institute of Control Automation and Systems Engineers (ICASE),  
Korea

***Hosted by:***

Korea Research Inst. of Ships and Ocean Engineering (KRISO), KORDI,  
Korea

***Secretariat:***

Dr. Seok Won Hong, KRISO, Daejeon, Korea

**Conference Chairman**

Dr. Seung-Il Yang, KRISO, Daejeon, Korea

**Symposium Organizing Committee (SOC)**

Prof. Jin S. Chung (Chair), ISOPE, Cupertino, CA, USA

Prof. A.T. Bekker, Far Eastern State Tech University, Vladivostok,  
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Dr. Lien-Kwei Chien, National Taiwan Ocean University, Taiwan, China

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Prof. M. Isaacson, University of British Columbia, Vancouver, BC,  
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Prof. Shigeru Naito, Osaka University, Osaka, Japan  
Dr. Mae L. Seto, Defence Research Est. Atlantic, Dartmouth, NS, Canada  
Dr. S. Soemantri, Bandung Institute of Technology, Bandung, Indonesia

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Dr. Seung-Il Yang (Chair), KRISO, Daejeon, Korea  
Dr. Seok Won Hong (Secretariat), KRISO, Daejeon, Korea  
Prof. Hang S. Choi, Seoul National University, Korea  
Dr. Sup Hong, KRISO, Daejeon, Korea  
Prof. S.H. Kwon, Pusan National University, Korea  
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Prof. Shigeru Naito, Osaka University, Osaka, Japan  
Dr. S. Soemantri, Bandung Institute of Technology, Bandung, Indonesia

## TECHNICAL PROGRAM

### Opening Address

Monday 13:30 Crystal Ballroom

Dr. Sang-Kyung Byun, President of KORDI  
Introduced by Prof. Hang S. Choi, Seoul National University

### Welcome Addresses

Monday 13:40 Crystal Ballroom

Dr. Seung-Il Yang, Symposium Chair  
Prof. Ro-Shik Park President of KCORE  
Introduced by Dr. Seok Won Hong, Secretariat of PACOMS-2002

### 1. REVIEW OF UNDERWATER RESEARCH IN ASIA

Monday 14:00 Crystal Ballroom

**Chair:** *Jin S. Chung*, ISOPE, USA  
**Co-chair:** *Seok Won Hong*, KRISO, Korea

#### **Recent Research and Development Trend on the Underwater Vehicle in JAMSTEC**

*Tadahiro Hyakudome, Taro Aoki, Takashi Murashima, Satoshi Tsukioka, Hiroshi Yoshida, Hidehiko Nakajoh, Tadahiko Ida & Shoujirou Ishibashi*, Japan Marine Science and Technology Center, Japan

#### **Review of Research and Development of Undersea Technology in Taiwan**

*Lien-Kwei Chien*, National Taiwan Ocean University; *Forng-Chen Chiu*, National Taiwan University; *Jin-Yuan Liu*, National Sun Yat-sen University; *Sheng-Chung Lo*, Industrial Technology Research Institute, Taiwan, China

#### **Underwater Vehicles and Buoy Systems Developed for Ocean Observations in RIAM, Kyushu University**

*Wataru Koterayama, Masahiko Nakamura and Satoru Yamaguchi*, Research Institute for Applied Mechanics, Kyushu University, Japan

#### **Recent Research Activities of Underwater Vehicles in Korea**

*Seok Won Hong, Seung-Il Yang and Pan-Mook Lee*; Korea Research Inst. of Ships and Ocean Engineering, KORDI; *Hang S. Choi*, Seoul National University, Korea

## 2. UNDERWATER VEHICLE AND CONTROL I: SYSTEM DESIGN

Monday 16:20 Crystal Ballroom  
**Chair:** Yoshiho Ikeda, Osaka Prefecture University, Japan  
**Co-chair:** Sup Hong, KRISO, Korea

### **Will ROV-AUV Hybrids Be the Next Generation of Work Vehicles?**

*James R. McFarlane*, International Submarine Engineering Ltd., Canada

### **Underwater Vehicle "Diving Beetle"**

*Masahiko Nakamura and Hiroyuki Kajiwara*, Kyushu University;  
*Hiroyuki Oda*, Akishima Laboratories, Mitsui Zosen; *Takehiro Yoneyama*, Kyushu University, Japan

### **A Study on Shape Optimization for an Underwater Vehicle Based on Numerical Simulation**

*Satoru Yamaguchi, Takeo Kawanami and Wataru Koterayama*, Research Institute for Applied Mechanics, Kyushu University, Japan

18:30-20:30

**SYMPOSIUM RECEPTION** Sapphire Ballroom

## 3. HYDRODYNAMICS AND CONTROL

Tuesday 9:00 Crystal Ballroom  
**Chair:** Shigeru Naito, Osaka University, Japan  
**Co-chair:** S.H. Kwon, Pusan National University, Korea

### **Computations of Hydrodynamic Forces on a Slender Ship**

*Edmond Y.M. Lo, Ze Xuan Zhou and Soon Keat Tan*, Nanyang Technological University, Singapore

### **Analysis of Wave Overtopping on a Deck by 2D Mexican Hat Wavelet Transform**

*S.H. Kwon, H.S. Lee and D.J. Jung*, Pusan National University, Korea

### **A Numerical Analysis of Violent Free Surface Flow by Particle Method**

*Shigeru Naito and Makoto Sueyoshi*, Osaka University, Japan

### **Autonomous Control System of an Induction Generator for Wave Energy Device**

*Bong-Hwan Jeon, Seok-Won Hong and Yong-Kon Lim*, Korea Research Inst. of Ships and Ocean Engineering, KORDI, Korea

**4. UNDERWATER VEHICLE AND CONTROL II :  
POSITIONING & NAVIGATION**

Tuesday 10:30 Crystal Ballroom  
**Chair:** Jun-Ho Oh, KAIST, Korea  
**Co-chair:** Ning Yang Changsha Research Institute of Mining & Metallurgy, China

**Visual Inspection of Underwater Structures by Autonomous Underwater Vehicles based on Positioning using Artificial Objects on Them**

*Son-Cheol Yu and Tamaki Ura*, University of Tokyo, Japan

**Building a Virtual Reality Navigation System for Remotely Operated Vehicle**

*Shiahn-wern Shyue and Chia-Huey Hong*, National Sun Yat-sen University, Taiwan, China

**A Projection-Based Observer for SAUV Navigation**

*Joono Sur*, Korea Naval Academy, Korea

**Navigation-piloting Sensor Fault Diagnosis in Autonomous Underwater Vehicles**

*Anton M. Pisarets and Alexey N. Zhirabok*, Far Eastern State Technical University, Russia

**5. SHIP CONTROL I**

Tuesday 13:30 Crystal Ballroom  
**Chair:** K.P. Rhee, Seoul National Univ., Korea  
**Co-chair:** Anton M. Pisarets, Far Eastern State Technical Univ., Russia

**Dynamic Positioning for Shuttle Tankers**

*Hang S. Choi*, Seoul National University, Korea

**Bow-wing Control on Thrust Generation**

*Shigeru Naito, Yusuke Kita and Ryusuke Takada*, Osaka University, Japan

**A Study on Longitudinal Control System for Fully-submerged Hydrofoil based on Optimal Preview Servo System**

*Sang Hyun Kim*, Korea Research Inst. of Ships & Ocean Engineering, KORDI, Korea; *Hiroyuki Yamato*, University of Tokyo, Japan

**An Automatic Control System for Ship Maneuvering Motion, with Decoupling**

*Seiji Iwamoto*, Kyushu University, Japan

**Experimental Study on Performance Evaluation of Fin-Stabilizer**

*Sa Young Hong and Hyun-Joe Kim*, Korea Research Inst. of Ships & Ocean Engineering, KORDI; *Young-Kyun Shin and Byeong-Seok Yu*, Hanjin Heavy Industries & Construction Co. Ltd, Korea

**6. UNDERWATER VEHICLE AND CONTROL III:  
SEA FLOOR VEHICLES**

Tuesday 15:30 Crystal Ballroom  
**Chair:** Lien-Kwei Chien, National Taiwan Ocean University, Taiwan,  
China  
**Co-chair:** Hiroyuki Kajiwara, Kyushu University, Japan

**Development of Controlling System of Deep Sea Miner**  
*Dewen Gong, Ning Yang and Mengdi Yu*, Changsha Research  
Institute of Mining & Metallurgy, China

**An Adaptive Control for Multiple Unmanned Underwater  
Crawling Vehicles**  
*Kwang Hwa Lee*, Navy Naval Surface Warfare Center, Dahlgren  
Division, USA

**Kinematic Simulation of COMRA's Self-propelled Vehicle of  
Deep Ocean Mining System**  
*Li Li and Shaojun Liu*, Central South University, China

Automatic Control of Hydraulic Lifting System  
Weisheng Zou, Changsha Research Institute of Mining &  
Metallurgy, China

**Transient Dynamic Analysis of Tracked Vehicle on Extremely  
Soft Cohesive Soil**  
*Sup Hong, Hyung-Woo Kim and Jong-Su Choi*, Korea Research Inst.  
of Ships & Ocean Engineering, KORDI, Korea

19:00-21:00

**SYMPOSIUM BANQUET** Sapphire Ballroom

**7. SHIP CONTROL II**

Wednesday 09:00 Crystal Ballroom

**Chair:** Hang S. Choi, Seoul National University, Korea  
**Co-chair:** Satoshi Uea, JAMSTEC, Japan

**Analysis on DP Performance of a Shuttle Tanker with Various  
Analysis Methods**  
*Hyun-joe Kim and Sa-Young Hong*, Korea Research Inst. of Ships &  
Ocean Engineering, KORDI; *Woo-Joon Yoo & Sam-Kwon Hong*,  
Samsung Heavy Industries Co. Ltd, Korea

**Operation of the Hybrid Anti-Rolling System on Board the R/V**

**MIRAI — Consideration of the System Performance**

*Satoshi Ueda, Satoshi Tsukioka and Hiroyasu Momma*, Japan Marine Science and Technology Center, Japan

**Disturbance Accommodating Controller for the Roll Motion of a Ship in a Irregular Seaways**

*Sunghoon Kim and K. P. Rhee*, Seoul National University; *Sangmoo Lee*, Dongyang University, Korea

**Development of Passive and Active Anti-Rolling Tanks**

*Jae-Moon Lew*, Chungnam National University; *Hyochul Kim and Bong-Jun Choi*, Seoul National University, Korea

**8. UNDERWATER VEHICLE AND CONTROL IV:  
MOTION CONTROL (1)**

Wednesday 11:00 Crystal Ballroom

**Chair:** Kwang Hwa Lee, Naval Surface Warfare Center, Dahlgren Division, USA

**Co-chair:** Pan M. Lee, KRISO, Korea

**Gain-Scheduled Control of Underwater Vehicle Using Quasi-LPV Techniques**

*Rui Gao, Hiroyuki Kajiwara, Eiji Kondo, Wataru Koterayama and Masahiko Nakamura*, Kyushu University, Japan

**The Sliding Mode Controller for a Test Bed AUV-SNUUV I**

*Kihun Kim, Joonyoung Kim, Hang S. Choi, Kyu-Yeul Lee and Woojae Seong*, Seoul National University, Korea

**Development of Collision Avoidance Algorithm Using Fuzzy Inference**

*Katsuro Kijima and Yoshitaka Furukawa*, Kyushu University, Japan

**9. UNDERWATER VEHICLE AND CONTROL V:  
MOTION CONTROL (2)**

Wednesday 14:00 Crystal Ballroom

**Chair:** Wataru Koterayama, RIAM, Kyushu University, Japan

**Co-chair:** Joono Sur, Korea Naval Academy, Korea

**An Experimental and Numerical Study on a Dynamics of a Flexible Free Hanging Riser**

*Y. P. Hong, M. Nakamura and Wataru Koterayama*, Kyushu University, Japan

**Homing and Docking Control of AUV Using Model Predictive Control**

*Myung-Hwan Oh and Jun-Ho Oh*, Korea Advanced Institute of Science and Technology, Korea

**Kinematic Singularity Avoidance for Autonomous Manipulation in Underwater**

*Jinhyun Kim*, POSTEC, Korea; *Giacomo Marani*, Univ. of Hawaii, USA, Korea; *Wan Kyun Chung*, POSTEC, Korea; *Junku Yuh*, Univ. of Hawaii, USA

**GENERAL INFORMATION**

**PLACE AND DATE:** Daejeon, Korea; November 17-20, 2002

**All ISOPE-PACOMS2002 Symposium Events and Registration, except Symposium Tour will take place at:**

**Lotte Hotel Daejeon**  
**382, Doryong-Dong, Yusung-Gu, Daejeon, Korea**  
**Tel: +82-42-865-7000, Fax: +82-42-862-0059**

The KRISO Reception and Symposium Banquet will be held at Sapphire Ballroom of the Venue Hotel.

**PARKING:** Free parking.

**LANGUAGE**

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

**AIR TRAVEL**

Most major airlines fly from all major cities around the world to Incheon (Seoul) International Airport. The participants should plan early and ask their local travel agents to obtain the *most favorable flight ticket prices*. Early bookings may offer lower fares.

**CURRENCY EXCHANGE**

Currency can be exchanged either at the airport bank or local bank. Note the exchange rate fluctuation (1,220Won per US \$ as of Sept. 24, 2002).

**AIRPORT TO DAEJEON**

Airport shuttle from Incheon ("Seoul") International Airport to Lotte Hotel Daejeon is operated from 06:00 to 21:00. It takes about 3 hours. The one way fare is 13,800 Won per person. You can buy a ticket near #8 Bus Stop of the Incheon airport.

**HOTEL ACCOMMODATION (must use the Reservation Form: Only a limited number of rooms for foreign participants are available at the symposium venue hotel: Lotte Hotel Daejeon)**

Make early room reservation at **Lotte Hotel Daejeon**. If you want to stay at another hotel, please contact the secretariat by email: [swhong@kriso.re.kr](mailto:swhong@kriso.re.kr)

**CITY TRANSPORTATION**

You could pick-up a city map at the registration desk. The most convenient transportation in Daejeon is to take a taxi. Also, buses run regularly to all points of the city.

**SYMPOSIUM TOUR, November 20 15: 30-17:00**

Two-hours visit to Korea Research Inst. of Ship and Ocean Engineering (KRISO), KORDI, Daejeon. Interested participants must make reservation in advance by indicating in the advance registration form.

**SPOUSE PROGRAM – Yong-In Folk Village: 8:00-17:00**

Use the advance registration form to make reservation. On-site at the Registration Desk costs \$50 extra charge.

**ADVANCE SYMPOSIUM REGISTRATION BY MAIL OR FAX (use the Registration Form)**

Remember to send via airmail the Advance Registration (*and Invoice*) Form in this Program or a copy to reach **ISOPE PACOMS-2002 Secretariat, Daejeon, Korea before October 23**. In case one charges to a credit card via FAX (+82-42-868-7519), the card number should be typed in bold face or written clearly to be readable in the transmitted fax copy.

Forms received **after October 23** will not be processed and will be returned to the senders for on-site registration with a **surcharge of \$50**. Registrants will not be separately invoiced.

**ISOPE PACOMS-2002 ADVANCE SYMPOSIUM REGISTRATION FEES (if received before October 23, 2002)**

Use the Advance Registration Form in this program or a copy. All persons attending the symposium are required to register, pay the appropriate fee, and get a conference badge. Registration fees are as follows:

Category	Advance Registration Fee (US \$)*	
		Received before <a href="#">October 23</a>
<input type="checkbox"/> Author, Co-authors	300	_____
<input type="checkbox"/> Session or Symposium Chair, Co-Chair	300	_____
<input type="checkbox"/> ISOPE, KCORE, SNAK, ICASE Member	300	_____
<input type="checkbox"/> ISOPE member with new application (incl. 2003 membership fee and 1-year journal issues)	390	_____
<input type="checkbox"/> Non-Member	350	_____
<input type="checkbox"/> Spouses (no proceedings/no luncheon)		
<input type="checkbox"/> Full-time Student with 2002 ID Card	100	_____
<input type="checkbox"/> Press with I.D.	N/C	
<input type="checkbox"/> Reserve a seat for Spouse Program	50	_____
<input type="checkbox"/> Reserve a seat for Symposium Tour	Free	

\* The Symposium registration fee includes the symposium reception and banquet, tea breaks, and symposium proceedings.

**REGISTRATION CANCELLATIONS**

Request for cancellation of registration must be received in writing by **October 23, 2002** to be granted a refund minus US\$50 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\$50 surcharge. The registration desk will be open during the following hours:

Monday, Nov. 18    09:00-16:00    Tuesday, Nov. 19    09:00-12:00

**ISOPE PUBLICATION ORDER**

A copy of **ISOPE PACOMS-2002 Symposium Proceedings** (CD-ROM and hard copy, ISBN 1-880653-59-1) is included in the symposium registration fees. The proceedings volumes (280 pp. est.) can be ordered by mail at the rates of:

Mail order at \$120 (ISOPE Member \$80) plus shipping charge.

**ISOPE PUBLICATION can be ordered from ISOPE, P.O. Box 1107, Golden, Colorado 80402-1107, USA: FAX 1-650-254-2038.** Advance payment is required. MasterCard or VISA card, international money order or U.S. bank checks in US Dollar *payable to ISOPE* will be accepted. Shipping and handling charges are included (also see the ISOPE Publication Order Information.)

**PRESS** - The press is invited to register at: Registration Desk

**SYMPOSIUM HEADQUARTERS** Pearl Room

**KRISO RECEPTION**  
18:30-20:30 MONDAY Sapphire Ballroom

**SYMPOSIUM BANQUET**  
19:00-2100 TUESDAY Sapphire Ballroom

**AUDIO VISUAL PRACTICE and INTERNET** Emerald Room  
An overhead projector, an 35 mm slide projector, a Power-point projector (Read Author Information form) and screen will be set up from 08:00-17:00 (Monday and Tuesday) in the session rooms.

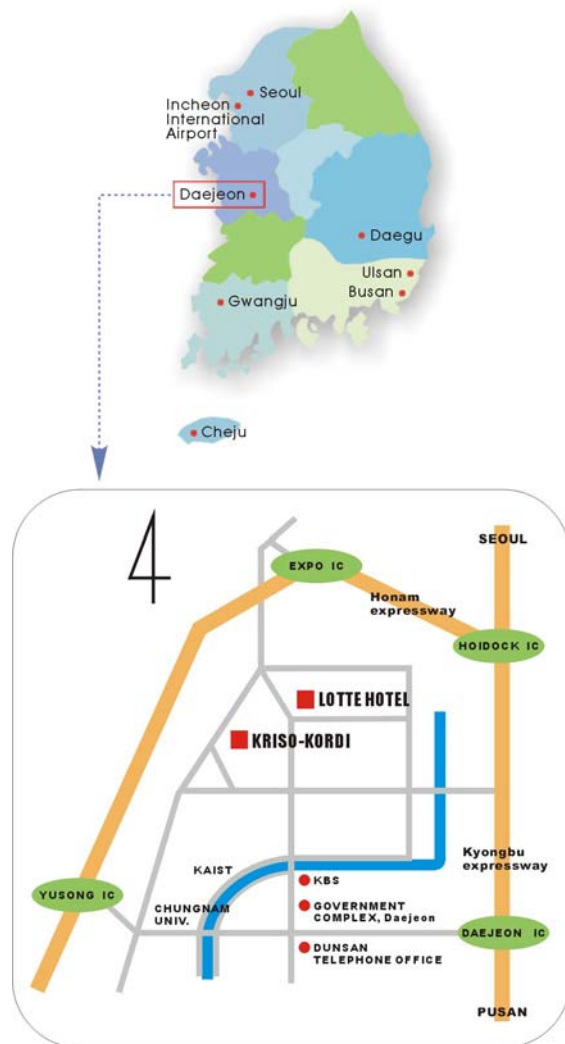
**AUTHORS BRIEFING** Emerald Room  
Presenting authors and session chairs and co-chairs will be briefed at 10:30 on Monday, and at 08:00 on Tuesday and Wednesday

**INTERNATIONAL PARTICIPANTS AND VISA APPLICATION**  
International authors, participants or attendees who need help (except financial) can contact: [Dr. Seok Won Hong](#), PACOMS-2002 Secretariat, KRISO/KORDI, 171 Jang-dong, POBox 23, Yusong, Daejeon, 305-600 KOREA (Tel: +82-42-868-7520; **Fax: +82-42-868-7519**).

**Entry Visa.** Some authors may be required to apply for an entry visa. Please get an application form at the Republic of Korean Consulate in your country or ask application form from the PACOMS-2002 secretariat. If the Consulate requires you to submit an official letter of invitation, please contact [PACOMS-2002 Secretariat](#).

#### **CLIMATE**

The weather in Daejeon in late November can be chilly. Temperature is around 10°C ~ 20 °C.



- From Incheon Int. Airport (Seoul) to Lotte Hotel Daejeon:  
Take a Shuttle Bus at #8 Bus Stop.  
Depart at 06:00, 07:00, 08:30, 09:00, 10:00, 11:00, 12:00, 13:00, 14:00, 15:00, 16:00, 17:00, 17:40, 18:20, 19:00, 20:00, 21:30. It takes about 3 hours and costs 13,800 Won.
- From Kimhae Airport (Busan) to Lotte Hotel Daejeon:  
Take a taxi to Gupo Railroad Station (5,000 Won, 30min.)  
Take Express Train “Saemaoul” to Daejeon (19,800 Won at weekend, 2.5 hour)  
Take a taxi to Lotte Hotel Daejeon (8,000 Won, 30-40min.)

## **ISOPE MEMBERSHIP APPLICATION**

Please download an ISOPE membership application form [www.isopec.org](http://www.isopec.org) or ask by E-mail to [info@isopec.org](mailto:info@isopec.org):

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Organization \_\_\_\_\_  
Dept. \_\_\_\_\_  
Address \_\_\_\_\_  
Postal Code \_\_\_\_\_, Country \_\_\_\_\_  
Fax No. \_\_\_\_\_

Send to:

ISOPE Membership Department  
P.O. Box 189, Cupertino, California 95015-0189, USA  
Fax 1-650-254-2038

## **ISOPE-2003 Honolulu**

The 13th (2003) International  
**Offshore and Polar Engineering  
Conference**  
Honolulu, Hawaii, USA, May 25-30, 2003

Technical Program will be posted on [www.isopec.org](http://www.isopec.org).

**HOTEL RESERVATION FORM** (must use this form)

**Lotte Hotel Daejeon, Daejeon, Korea**

**November 17-20, 2002**

Lotte Hotel Daejeon is the official venue for the PACOMS-2002.  
For **guaranteed reservation**, this form must be received via  
**either fax or airmail** only and no later than **OCTOBER 23**:

**Group Reservation (PACOMS-2002)**

**Mr. Hyoung Min Kang**

**Lotte Hotel Daejeon**

**382 Doryong-Dong, Yusong-Gu, Daejeon, 305-340, Korea**

**Fax: +82-42-862-0059, Tel: +82-42-865-7000**

**E-mail: [fdkang@hanmail.net](mailto:fdkang@hanmail.net), website: [www.hotellotte.co.kr](http://www.hotellotte.co.kr)**

First (Fore)

Surname: \_\_\_\_\_ & Middle: \_\_\_\_\_

Circle: Male Female; Title: Mr. Ms. Mrs. Prof. Dr.

Company/Univ.: \_\_\_\_\_

Address: \_\_\_\_\_

City \_\_\_\_\_; Country \_\_\_\_\_

Postal (ZIP) Code \_\_\_\_\_; Fax No. \_\_\_\_\_

Check-in: \_\_\_\_\_ November; Check-out: \_\_\_\_\_ November, 2002

\*(US\$1=1,200Won as of Sept., 2002)

Class	☆☆☆DLXDouble
Hotel	Hotel Lotte Daeduk
Single/Double Occupancy	<input type="checkbox"/> Double / <input type="checkbox"/> Twin
Room Rate/Night*	84,700 Won

- Rooms will be assigned on a first-come-first-served basis.
- The above room rate includes service charge and tax without breakfast.
- Upon receipt of the hotel reservation form with one-night deposit, the confirmation document will be faxed to the participant within 5 working days.

**Hotel Deposit Payment**

Circle: Visa MasterCard Dinner's Club American Express

Card No.: \_\_\_\_\_ Exp. Date: \_\_\_\_\_

Name on the card: \_\_\_\_\_

Cardholder's Signature: \_\_\_\_\_ Date: \_\_\_\_\_, 2002.

**Cancellation & Refund Policy**

- Your credit card will be used for your hotel reservation guarantee only.
- If you wish to cancel the reservation, you must cancel it 48 hours prior to your check-in date. Otherwise, no-show will have one night deposit charged

**Photocopy, Complete, and Send this Form**

Reservation after **OCTOBER 23** is subject to room availability

## **TECHNICAL PROGRAM**

### **ISOPE PACOMS-2002**

**Daejeon, Korea**

**November 17-20, 2002**

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