

September 12-16, 2004  
Vladivostok, Russia

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**The Sixth (2004) ISOPE  
Pacific/Asia  
Offshore Mechanics  
Symposium**

**and  
Construction and Materials  
Symposium**

**ISOPE  
PACOMS-2004**

**Hyundai Hotel, Vladivostok, Russia  
September 12-16, 2004**

**Technical Program**

**Invited and Peer-reviewed Papers**

**Sakhalin Offshore Engineering  
Materials, Underwater Vehicle  
Ocean Energy & Environment**

**Ice Engineering  
Hydrodynamics**

*Organized by:*

International Organizing Committee and Local Organizing Committee

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*Hosted by:*

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**ISOPE-2005 Seoul**

**Call For Papers**

The 15th (2005) International  
**Offshore and Polar Engineering Conference**  
Seoul, Korea, June 19-24, 2005

**Call For Papers**

Abstract Deadline: **October 1, 2004**

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**Online Abstract Submission (now)** and **Technical Program**  
(in January) on [www.isopec.org](http://www.isopec.org)

## Welcome to ISOPE PACOMS-2004

We greatly appreciate the excellent responses and help we have received from colleagues around the world in the successful organization of the 6th ISOPE Pacific/Asia Offshore Mechanics Symposium (ISOPE PACOMS-2004), Vladivostok, Russia, September 12–16, 2004. The symposium features 12 **sessions of peer-reviewed papers** and **invited papers** from Pacific Rim countries. This year's focus is on *Sakhalin Development and Offshore and Ice Engineering*. Concurrently, *Construction and Materials Symposium will be held in parallel*.

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 26 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, Kitakyushu, Honolulu and Toulon. 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, International Organizing Committee and Local Organizing Committee, we would like to express our appreciation to the financial sponsors and welcome participants to the ISOPE PACOMS-2004 Symposium in Vladivostok.

**Jin S. Chung**, PACOMS Executive Committee and International Organizing Committee  
and

**Alexander T. Bekker**, Local Organizing Committee and International Organizing Committee

**SUNDAY September 12**

16:00  
PACOMS Executive Committees Diamond

09:00-16:00  
**REGISTRATION**, Proceedings/Badge Pickup Lobby Floor

18:30-20:30  
**FESTU RECEPTION** Diamond

For Tour Information Visit Registration Desk

**MONDAY September 13**

0800  
On-site Registration and Badge and Proceedings Lobby Floor  
Pickup

**08:00 Chair/Co-chair Briefing** Diamond

09:00  
**Symposium Opening Addresses** Diamond  
ISOPE PACOMS-2004 Chair  
**Welcome Addresses** Diamond  
Governor of Primorsky Territory  
President, Far Eastern State Technical University

09:15  
**1. SAKHALIN OFFSHORE I** *Diamond*

10:30  
**2. SAKHALIN OFFSHORE II** *Diamond*

13:30  
**3. SAKHALIN OFFSHORE III** *Diamond*

15:30  
**4. ENERGY AND ENVIRONMENT** *Diamond*

**TUESDAY September 14**

08:00 Chair/Co-chair Briefing *Diamond*

08:30  
**5. OFFSHORE SYSTEMS** *Diamond*

10:30  
**6. ICE ENGINEERING I** *Diamond*

Lunch Hour  
**POSTER PRESENTATIONS** *Diamond*

14:00  
**7. ICE ENGINEERING II** *Diamond*

16:00  
**8. ICE ENGINEERING III: Ice-Structure 1** *Diamond*

19:00-21:00  
Group Dinner (Details to be announced) *Zaimka*

**WEDNESDAY September 15**

08:00 Chair/Co-chair Briefing	<i>Diamond</i>
08:30	
<b>9. ICE ENGINEERING IV: Ice-Structure 2</b>	<i>Diamond</i>
11:00	
<b>10. UNDERWATER VEHICLES AND CONTROL</b>	<i>Diamond</i>
Lunch Hour	
<b>POSTER PRESENTATION</b>	<i>Diamond</i>
14:00	
<b>11. HYDRODYNAMICS &amp; COASTAL ENG I</b>	<i>Diamond</i>
16:00	
<b>12. HYDRODYNAMICS &amp; COASTAL ENG II</b>	<i>Diamond</i>

**Construction and Materials Symposium**

<b>11:00</b>	
<b>Construction and Materials I</b>	<i>Emerald</i>
<b>14:00</b>	
<b>Construction and Materials II</b>	<i>Emerald</i>

**PACOMS Symposium Banquet**

<b>19:00 Wednesday</b>	<i>Diamond</i>
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**THURSDAY September 15**

08:00-20:00  
**SYMPOSIUM TOUR:** One-day excursion to the Sakhalin II CGBS construction site in Vostochny Port.  
Make your reservation in advance by indicating in the advance registration form.  
Bus departure at 08:00, and return to Hotel at 20:00



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Dalhydrostroy, Vladivostok.

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## TECHNICAL PROGRAM

### The Sixth (2004) ISOPE Pacific/Asia Offshore Mechanics Symposium Vladivostok, Russia, September 12–16, 2004

All events will take place at Hyundai Hotel. The changes on titles or authors the ISOPE PACOMS-2004 International Organizing Committee (IOC) received in writing before July 5, 2004 are reflected in this program. Final corrections will be updated in the Conference Proceedings. 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](http://www.isopec.org).

### SUNDAY 18:30

18:30-20:30  
**FESTU Reception**

**Hyundai Hotel**  
Diamond

### MONDAY 08:00

0800  
**On-Site Registration** and Badge and Proceedings Pickup  
**08:00 Chair/Co-chair Briefing** Hotel Hyundai–Diamond

09:00  
**SYMPOSIUM OPENING ADDRESS** Diamond  
Chung, Jin S, ISOPE PACOMS-2004 Chair,  
Cupertino, California, USA

**WELCOME ADDRESSES** Diamond  
Vladimir V. Rozenberg, Vice-Governor of  
Primorsky Territory  
Gennadi P. Turmov, President, FESTU

### 1. SAKHALIN OFFSHORE I

Monday September 13 09:15 Diamond

Chair: Bekker, A T, Far-Eastern State Technical Univ,  
Vladivostok, Russia  
Co-Chair: Naito, S, Osaka Univ, Osaka, Japan

#### **Sakhalin Offshore Development: Sakhalin 2 Project Prospects** [Oral Presentation]

Kholodin, Anatoly, Truskov, Pavel, Manager, Sakhalin Energy Investment Company, Yuzhno-Sakhalinsk, Russia

#### **Far East Russia Oil and Gas Supplier Development** [Oral Presentation]

Gulbrandsen, E, Aker Kvaerner, Oslo, Norway

#### **Integrated Deep-ocean Ship-to-Seafloor System: Mining and Drilling**

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

### 2. SAKHALIN OFFSHORE II

Monday September 13 10:30 *Diamond*

Chair: Bellendir, Y N, VNIIG by B.E.Vedeneev Co., Ltd. St. Petersburg, Russia

Co-Chair: Kioka, S, Civil Engineering Inst of Hokkaido, Sapporo, Japan

#### **Comparative Analysis of Supervisions on Location of a Geochemical Composition of the Ground Sediments at Five Platforms of the Project "Sakhalin-2"**

Petukhov, V I, Lisitskaya, I G, Vagenik, I A, Romanchenko, A V, Far-Eastern State Technical Univ, Vladivostok, Russia

#### **Basic Issues of the Design of Support Elements of Gravity Platforms on Sakhalin Shelf**

Bellendir, Y N, Glagovsky, V B, Finagenov, O M, VNIIG by B.E.Vedeneev Co., Ltd. St-Petersburg, Russia

#### **Peculiarities of Up-Dating "Orlan" Drilling Rig for "Sakhalin Shelf"**

Taranukha, N A, Novikov, B A, Chizhiumov, S D, Zhurbin, O V, Burmenskiy, A D, Komsomolsk-on-Amur State Technical Univ, Komsomolsk-on-Amur, Russia

#### **Thermodynamic Method of the Estimation of Fatigue Durability of Steels [Oral Presentation Only]**

Lavrushin, G A, Lavrushina, E G, Far-Eastern State Technical Univ, Vladivostok, Russia

### 3. SAKHALIN OFFSHORE III

Monday September 13 13:30 *Diamond*

Chair: Filaretov, V F, Inst of Automation and Control Processes, Vladivostok, Russia

Co-Chair: Lyubimov, V S, Hydrotex Co., Ltd., Vladivostok, Russia

**Seismic Design of Sakhalin Offshore Installations**

Gunturi, R, Efthymiou, M, Shell E&P Projects, Rijswijk, The Netherlands; M, Hall, C, van Beek, T, Sakhalin Energy Investment Co., Rijswijk, The Netherlands

**Specificity of Soil Cover and Recultivation of Soils for Sakhalin Projects**

Kostenkov, N M, Oznobikhin, V I, Inst of Biology & Soil Science, Vladivostok, Russia

**On Characteristics of Remediation the Oil Polluted Ground under the Sakhalin Project Realization**

Golodyaev, G P, Oznobikhin, V I, Inst of Biology & Soil Science, Vladivostok, Russia

**Opportunity of Application of AUVs in Russia Designed by the IMTP for Underwater Communications Inspection and Aquatic Environment Monitoring [Oral Presentation]**

Ageev, M D, Gornak, V E, Inzartsev, A V, Lvov, O Y, Rylov, N I, Scherbatyuk, A Ph, Inst of Marine Technology Problems, Vladivostok, Russia

**4. ENERGY AND ENVIRONMENT**

Monday                      September 12      15:30                      *Diamond*

Chair: Kang, K-J, Korea Research Inst of Ships and Ocean Engineering, Daejeon, Korea

Co-Chair: Cheboxarov, Victor V, Far Eastern State Technical Univ, Vladivostok, Russia

**A Study on NOx Emission Status and Reduction Technologies of Domestic Marine Engines**

Kang, K-J, Kim, S-H, Kim, E-C, Korea Research Inst of Ships and Ocean Engineering, Daejeon, Korea

**Field Experiment on Oil Recovery in Icy Water with Oil Recovery Bucket [Oral Presentation]**

Takahashi, S, Nishima-gumi, Hokkaido; Otsuka, N, North Japan Port Consultants Co., Sapporo; Usami, N, Hokuden-Sogo-Sekkei Co., Sapporo; Saeki, H, Hokkaido Univ, Sapporo, Japan

**Optoelectronic Method of Absolute Inclination Remote Monitoring**

Kulchin, Y N, Inst for Automation and Problems of Control, Vladivostok; Vitrik, O B, Bekker, A T, Obukh, V F, Starinets, V N, Anokhin, P V, Titov, P L, Ryazanov, A V, Far-Eastern State Technical Univ, Vladivostok; Borisov, Y S, Inst for Automation and Problems of Control, Vladivostok, Russia.

**Study of Oscillatory Pneumatic Damping in the Air Duct for an OWC Type Wave Energy Device**

Choi, H S, Hong, S W, Kim, J H, Hong, S Y, Korea Research Inst of Ships and Ocean Engineering, Daejeon; Hong, D C; Lew, J M, Chungnam National Univ, Daejeon, Korea

**Calculation of Wind Loading on Large-Scale Floating Wind Turbine**

Cheboxarov, Victor V, Cheboxarov, Valery V, Far Eastern State Technical Univ, Vladivostok, Russia

## TUESDAY 08:30

### 5. OFFSHORE SYSTEMS

Tuesday September 14 08:30 *Diamond*

Chair: Efthymiou, M, Shell E&P Projects, Rijswijk, The Netherlands

Co-Chair: Kim, L V, Hydrotex Co., Ltd., Vladivostok, Russia

#### **Definition of Design Storm Profile for the Area of Piltun-Astokhskiye and Lunskiye Deposits**

Belyajev, B V, Mironov, MYe, VNIIG by B.E.Vedenev Co., Ltd., St-Petersburg, Russia

#### **Production Platforms for Russian Offshore**

Karlinskiy, S L, Zhukov, G V, Kotov, V V, SOE «Central Design Bureau For Marine Engineering «Rubin» (SOE «CDB ME «Rubin»), Saint Petersburg, Russia

#### **Expert System for Marine Transport Structures**

Kim, L V, Far-Eastern State Technical Univ, Vladivostok, Russia

#### **Specificity of Offshore Structures Design** [Oral Presentation]

Lenskiy, V F, Potapov, L I, Ishchenko, L I, Blagovidov, L B, Berkhin, I M, Vorobiev, N V, Central Design Bureau CORALL, Sevastopol, Crimea, Ukraine

### 6. ICE ENGINEERING I

Tuesday September 14 10:00 *Diamond*

Chair: Zubakin, G, Arctic & Antarctic Research Inst, St. Petersburg, Russia

Co-Chair: Seliverstov, V I, Hydrotex Co., Ltd, Vladivostok, Russia

#### **Uniaxial Compressive Strength of Sea Ice along the Coast of Hokkaido and Sakhalin**

Kondo, H, Hokkaido Univ, Sapporo; Otsuka, N, North Japan Port Consultants Co., Sapporo; Masaki, T, Hokkaido Regional Development Bureau, Hokkaido; Kioka, S, Civil Engineering Research Inst Hokkaido, Sapporo; Saeki, H, Hokkaido Univ, Sapporo, Japan

#### **Peculiarities of the Structure and Properties of Ice Ridges in the Eastern Barents Sea Based on the 2003 Expedition Data**

Zubakin, G K, Gudoshnikov, Y P, Naumov, A K, Stepanov, I V, Kubyshev, N V, Arctic & Antarctic Research Inst, St. Petersburg, Russia

#### **Behavior of Ice Floe Runup Caused by Tsunami**

Otsuka, N, North Japan Port Consultants Co., Sapporo; Takahashi, Y, Hokuriku Regional Development Bureau, Niigata; Kondo, H, Hokkaido Univ, Sapporo; Takeuchi, T, Hachinohe Inst of Technology, Aomori; Saeki, H, Hokkaido Univ, Sapporo, Japan

#### **Run-up of Ice Floes on Sloping Beach due to Waves**

Wakabayashi, T, Alfa Hydraulic Engineering Consultants Co., Sapporo; Imaizumi, A, Nishimura-gumi Co., Hokkaido; Ishikawa, R, Hokkaido Univ, Sapporo; Takeuchi, T, Hachinobe Inst of Tech, Hachinobe; Saeki, H, Hokkaido Univ, Sapporo, Japan

**Movement of Ice Floes at the Edge of Ice Sheet in Saroma Lagoon**

Terashima, T, Kumashiro System Frontier Co., Sapporo; Kawai, T, Pacific Consultants Co., Sapporo; Otsuka, N, North Japan Port Consultants, Sapporo; Takeuchi, T, Hachinobe Inst of Tech, Hachinobe; Saeki, H, Hokkaido Univ, Sapporo, Japan

**Study on the Utilization and Reinforcement of Bearing Capacity of Floating Ice**

Otsuka, N, North Japan Port Consultants, Sapporo; Terashima, T, Kumashiro System Frontier Co., Sapporo; Wakabayashi, T, Alfa Hydraulic Engineering Consultants Co., Sapporo; Okamoto, S, Toa Corp, Tokyo; Saeki, H, Hokkaido Univ, Sapporo, Japan

Lunch Hour

**POSTER PRESENTATIONS**

*Diamond*

**7. ICE ENGINEERING II**

Tuesday

September 14 14:30

*Diamond*

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

Co-Chair: Terashima, T, Kumashiro System Frontier Co., Sapporo, Japan

**Meteorological Observation in Fishing Port of Hokkaido During Winter Season and Numerical Calculation Model of Ice Growth and Melting**

Kioka, S, Honma, T, Yamamoto, Y, Civil Engineering Inst of Hokkaido, Sapporo; Michihiro, N, Tokachi Port and Harbor Construction Office, Hiroo-gun; Terashima, T, Kumashiro Systems Frontier Co, Sapporo, Japan

**Ice Concentration of the Far-Eastern Seas of Russia**

Yakunin, L P, Far-Eastern State Univ, Vladivostok, Russia

**Experimental Studies of Ice Cover Inhomogeneity**

Bekker, A T, Gomolskiy, S G, Farafonov, A E, Far-Eastern State Technical Univ, Vladivostok, Russia

**Hydraulic Conductivity of Bottom Ice**

Zemlyanoy, V V, Far Eastern State Technical Univ, Vladivostok, Russia

**Simulation Method of Ice Bottom Topography**

Kioka, S, Honma, T, Yamamoto, Y, Civil Engineering Inst of Hokkaido, Sapporo; Sakikawa, M, Hokkaido Regional Development Bureau, Sapporo; Sakai, S, Iwate Univ, Iwate, Japan

**About A Possibility for a Probabilistic Interpretation of Ice Thickness Growth Up to 20-25 cm Dates Forecast in Arctic Seas**

Dmitriev, V G, Arctic and Antarctic Research Inst, St-Petersburg, Russia

### **8. ICE ENGINEERING III: Ice-Structure 1**

Tuesday September 14 16:30 *Diamond*

Chair: Otsuka, N, North Japan Port Consultants, Sapporo, Japan  
Co-Chair: Kozin, V M, Inst of Machine Science and Metallurgy, Komsomolsk-on-Amur, Russia

#### **Mathematical Modelling of Shock Loading of a Solid Ice Cover**

Kozin, V M, Pogorelova, A V, Inst of Machine Science and Metallurgy, Komsomolsk-on-Amur, Russia

#### **The Simulation Model of Hummocks Impact on the Sea Bottom and Subsea Pipelines**

Bekker, A T, Sabodash, O A, Vavilin, R V, Far-Eastern State Technical Univ, Vladivostok, Russia

#### **Analysis of Types and Design Solutions of Offshore Ice-Resistant Platforms for Seismic Regions of Continental Shelf**

Makarov, M V, Kotov, V V, SOE «Central design bureau for marine engineering «Rubin» (SOE «CDB ME «Rubin»), St. Petersburg, Russia

#### **Numerical Simulation of the Process of Mechanical Interaction between Ice Fields and Structure Support**

Bekker, A T, Uvarova, T E, Kim, S D, Far-Eastern State Technical Univ, Vladivostok, Russia

#### **Prospects of Development of Seaports Existing along the Arctic Shipping Route [Oral Presentation]**

Garibin, P A, Kolosov, M A., Narbut, R M, SPbGUVK, Silin, A V, “Podvodtruboprovodstroy,” St-Petersburg, Russia

## **WEDNESDAY 08:30**

### **9. ICE ENGINEERING IV: Ice-Structure 2**

Wednesday September 15 8:30 *Diamond*

Chair: Gundersen, B, Aker Kvaerner, Oslo, Norway  
Co-Chair: Sabodash, O A, FESTU, Vladivostok, Russia

#### **Innovation in High-Strength Concrete Technology – Ice Abrasion Concrete Cover Research Program [Oral Presentation Only]**

Fosso, K T, Norwegian Univ of Science and Technology, Trondheim, Norway; Bekker, A T, Far-Eastern State technical Univ, Vladivostok, Russia

#### **Experimental and Theoretical Investigations of Concrete Fracture Strength on the Basis of Energy Criteria**

Guzev, M A, Inst for Automation and Management Processes, Vladivostok, Russia, Makarova, N V, Far-Eastern State Technical Univ, Vladivostok, Russia

**Sakhalin II CGBS — the State-of-the-Art Concrete Technology Performance for Offshore Arctic Environment**  
[Oral Presentation Only]  
Walum, R, Haldorsen, K, Aker Kvaerner, Oslo, Norway

**Level of Allowable Stresses under Cyclic Variable-Polarity Thermal Fields Impact to Concretes**  
Kolomiets, V I, Far-Eastern Research Inst on Construction, Vladivostok; Bekker, A T, Far-Eastern State Technical Univ, Vladivostok, Russia

**A Four-parameter Multi-axial Strength Criterion for Lightweight Aggregate (LWA) Concrete**  
Song, Y, Wang, L, Liu, H, Dalian Univ of Technology, Dalian, China

**Quality Management of Marine Transport Structures** [Oral Presentation]  
Lyubimov, V S, Hydrotex Co. Ltd., Vladivostok, Russia

**Is the Lunscoe and Piltun CGDS's the Gateway for Future Concrete Structures Offshore Sakhalin Island?** [Oral Presentation Only]  
Gundersen, B, Aker-Kvaerner, Oslo, Norway

## **10. UNDERWATER VEHICLES AND CONTROL**

Wednesday      September 15      11:00      *Diamond*

Chair: Hong, S W, Korea Research Inst of Ships and Ocean Engineering, Daejeon;  
Co-Chair: Zhirabok, A N, Far Eastern State Technical Univ, Vladivostok, Russia,

**The Synthesis of Multi-Dimensional Adaptive Variable Structure System for Autonomous Underwater Vehicle**  
Lebedev, A V, Filaretov, V F, Inst of Automation and Control Processes, Vladivostok, Russia

**Power Consumption of Tethered Underwater Vehicle**  
Mokeyeva, I G, Inst for Problems of Off-Shore Engineering, Vladivostok; Mokeyev, G A, Far Eastern State Technical Univ, Vladivostok, Russia

**Effective Bow Wing Control for Ship Propulsion**  
Okumura, N, and Naito, S, Osaka Univ, Osaka, Japan

**On Diagnosis for Thrusters of Underwater Vehicle**  
Zhirabok, AN, Far Eastern State Technical Univ, Vladivostok, Russia, Inzartsev, AV, Inst of Marine Technology Problems, Vladivostok; Pisarets, A M, Far Eastern State Technical Univ, Vladivostok, Russia

Lunch Hour

**POSTER PRESENTATIONS**

*Diamond*

## **11. HYDRODYNAMICS & COASTAL ENGINEERING I**

Wednesday      September 15      14:00      *Diamond*

Chair: Li, Y-C, Dalian Univ of Technology, Dalian, China  
Co-Chair: Kee, S T, Seoul National Univ of Technology, Seoul, Korea

**Wave Climate Study of the Northeast Taiwan**

Huang, W P, Sinotech Engineering Consultants, Taipei; Yim, J, National Taiwan Ocean Univ, Keelung, TAIWAN, China

**A Study of Possible Effects of Missing Values in a Wave Record**

Yim, J Z, Chou, C-R, National Taiwan Ocean Univ, Keelung; Huang, W-P, Sinotech, TAIWAN, China

**Nonlinear Properties of Long Edge Waves above a Cylindrical Shelf**

Dubinina, V A., Kurkin, A A, Poloukhina, O E, Nizhniy Novgorod State Technical Univ, Nizhniy Novgorod, Russia

**Importance of Evanescent Modes in Predicting Transformation of Water Waves by Linear Wave Theory**

Lee, C, Sejong Univ, Seoul; Cho, Y-S, Cho, D-H, Hanyang Univ, Seoul, Korea

**Mechanism of Dynamic Instabilities for High-Speed Planing Crafts**

Katayama, T, Osaka Prefecture Univ, Osaka, Japan

**12. HYDRODYNAMICS & COASTAL ENGINEERING II**

Wednesday      September 15      16:00      *Diamond*

Chair: Naito, S, Osaka Univ, Osaka, Japan

Co-Chair: Yim, J Z, National Taiwan Ocean Univ, TAIWAN, China

**Submerged Dual Buoy/Porous-membrane Breakwater**

Kee, S T, Park, W S, Seoul National Univ of Technology, Seoul, Korea; Kim, M H, Texas A&M Univ, Texas, USA

**Wave Interaction with Combined Cylinders with a Solid Interior Column and a Porous Exterior Column**

Li, Y-C, Sun, L, Teng, B, Dalian Univ of Technology, Dalian, China

**Numerical Modeling of Ship Motion in Heavy Sea Conditions**

Chizhiumov, S D, Komsomolsk-on-Amur State Technical Univ, Komsomolsk-on-Amur, Russia

**Design of Offshore Structures for Ice Conditions** [Oral Presentation Only]

Orlov, O P, Simonov, Y A, Minin, V V, Krylov Shipbuilding Research Inst, St. Petersburg, Russia

**PACOMS Symposium Banquet**

**19:00 WEDNESDAY**

**Diamond**

## THURSDAY 08:00

**Technical Tour:** One-day excursion to the **Sakhalin II CGBS** Project construction site in Vostochny Port where two concrete platforms are under construction for Sakhalin Energy Investment Company. The platforms are to be installed at the Piltun-Astokhskoe and Lunscoe oil and gas fields offshore the Sakhalin Island.

**Make your reservation** in advance by indicating in the advance **registration form**.

**Bus departure at 8:00; Return at Hotel at 20:00.**

## Construction and Materials Symposium

### Construction and Materials I

Wednesday September 15 11:00 *Emerald*

Chair: Ilyichev, V A, Russian Academy of Sciences, Moscow, Russia

Co-Chair: Abramov, V E, Far-Eastern Research Inst on Construction, Vladivostok, Russia

### Weather Specificity in the Far East of Russia Concerning Construction Industry

Abbasov, P A, Far-Eastern Research Inst on Construction, Vladivostok, Russia

### Problems of Seismic Protection of Buildings and Structures

Ilyichev, V A, Russian Academy of Sciences, Moscow, Russia

### Calculation Methods of Building/Structure Safety

Karpenko, N I, Russian Academy of Sciences, Moscow, Russia

### Results of Scientific Research carried out by Far-Eastern Research Inst on Construction in Order to Provide Reliability and Safety of Construction Objects under Specific Weather Conditions of the Far East

Abramov, V E, Far-Eastern Research Inst on Construction, Vladivostok, Russia

### Analysis of Seismic Impacts on Offshore Marine Hydraulic Structures

Glagovsky, V B, Finagenov, O M, VNIIG after B.E.Vedeneev Co., Ltd., St. Petersburg, Russia

### Construction and Materials II

Wednesday September 15 14:00 *Emerald*

Chair: Abbasov, P A, Far-Eastern Research Inst on Construction, Vladivostok, Russia

Co-Chair: Borisov, E K, Far-Eastern Research Inst on Construction, Vladivostok, Russia

**Problem of Self-Vibrations of Underground Structures for Development of Methods of Dynamic Calculations of their Systems**

Bakirov, R O, Moscow Inst of Municipal Service and Construction, Moscow, Russia, Tarasov, D A, Moscow State Tech Univ by Bauman, Moscow, Russia

**Statistic Analysis of Transport Vibrations**

Borisov, E K, Alimov, S G, Far-Eastern Research Inst on Construction, Vladivostok, Russia

**Bearing Capacity of System "Structure-Soil" During Life Cycle**

Kim, L V, Lubimov, V S, Afanasyev, V A, Hydrotex Co., Ltd, Vladivostok, Russia

**On Expediency of Using Concretes with Additives of Garbage Incineration for Building Artificial Islands in Offshore Zone**

Falaleeva, N A, Far-Eastern Research Inst on Construction, Vladivostok, Russia

**ISOPE PACOMS-2004**

**Poster Session**

TUESDAY – WEDNESDAY

**Re-initial Stage of Cement Stone Structure Formation**

Kolomiets, V I, Far-Eastern Research Inst on Construction, Vladivostok, Russia

**Extraction of Thick Coal Seams and Seams with Rear-earth Elements on the Shelf Applying Bore-Hole Economic and Ecologically Effective Hydraulic Mining**

Niskovskiy, Yu N, Nikolaichuk, N A, Niskovskaya, E V, Far-Eastern State Technical University, Vladivostok, Russia

**About Interrelation of Categories "Reliability", "Risk", "Safety" in Construction**

Protsenko, V V, Far-Eastern State Technical Univ, Vladivostok, Russia

**Inverse Task Modeling of Complex Signals Back-Scattering from Quasiperiodic Surface**

Lobatch, V T, Potipak, M V, Taganrog State Univ of Radio Engineering, Taganrog, Russia

**Quality Increase of Hydrotechnical Concrete during Magnetic Water Processing**

Gulkova, S G, Gulyaev, V T, Kapachinskaya, A A, Gorbunova, N A, Far-Eastern State Technical Univ, Vladivostok, Russia

**Application of Imitating Modelling for the Prediction of Water Quality in Marine Water Areas**

Zemlyanaya, N V, Lyahov, V N, Far Eastern State Technical Univ, Vladivostok, Russia

**An Engineering Calculation Method of the Fatigue Resistance of Weld Tubular Structures of Marine Oil Extraction Platforms Taking into Account Brittle Failure**

Pogodaev, V P, Matokhin, G V, Pogodaev, M V, Far Eastern State Technical Univ, Vladivostok, Russia

**Epopée of «Cheluskin» – Achievement or Adventure?**

Antonenko, V S, Antonenko, S V, Far Eastern State Technical Univ, Vladivostok, Russia

**The Complex Solution of Problems of Ecological Safety of Autonomous Hydraulic Engineering Facilities**

Statsenko, V N, Sumenkov, V M, Far-Eastern Technical Univ, Vladivostok, Russia

**Areas Vulnerable by Weather Factors on Construction Objects Able to Cause Man-Made Calamities within Primorsky Territory**

Smirnova, G N, Odintsova, E Y, Far-Eastern Research Inst on Construction, Vladivostok, Russia

**EC “Construction Survey” Protecting Quality of Building Products**

Mikhailova, N N, Korableva, G A, Far-Eastern Research Inst on Construction, Vladivostok, Russia

**Considering Impact Effect when Calculating Buildings and Structures**

Grigoryev, P Y, Mukha, P V, DVGUPS, Khabarovsk, Russia

**Investigation of Angular Support Wall Interaction with Ground during Loss of Stability**

Tsimbelman, N Y, FESTU, Vladivostok, Russia

**Deviation Effect on Stability of Support Walls**

Slavgorodskaya, A V, Dalrybvtuz, Vladivostok, Russia

**Location of Buildings on Various Steep Slopes**

Kugno, V S, Far-Eastern Research Inst on Construction, Vladivostok, Russia, Petrashen, A S, FESTU, Vladivostok, Russia

**Estimation of Tolerance during Evaluation of Technical Condition of Building or Structures**

Lubimov, V S, Hydrotex Co., Ltd, Vladivostok, Russia, Kim, L V, FESTU, Vladivostok, Russia

**Improvement of Methods of Data Analysis on Investigated Structures**

Afanasiev, V A, Lubimov, V S, Far-Eastern Research Inst on Construction, Vladivostok; Kim, L V, Kovalenko, R G, FESTU, Vladivostok, Russia

**Deviation of Mooring Construction Superior Normative**

Kornushin, P S, FESTU, Vladivostok, Russia

**Prospects of Titanium Alloy Application during Construction of Deep-Sea/Arctic Hydrocarbon Fields within the Shelf**

Taran, N M, Simonov, Y A, Federal State Unitary Enterprise by academician A. N. Krylov, St. Petersburg, Russia

**Reasons of Flooding Basements of Residential Buildings in Vladivostok**

Kugno, V S, Far-Eastern Research Inst on Construction, Vladivostok, Russia

**Modern Methods of Water-Proofing Construction Systems by Cement-based Materials**

Vavrenyuk, S V, Far-Eastern Research Inst on Construction, Vladivostok, Russia

**Main Principles and Specificity of Creation of Underground Water Reservoirs**

Golovanov, B E, Far-Eastern Research Inst on Construction, Vladivostok, Russia

**Ecologically Safe Underground Water Reservoirs with Active Drainage Adjustment**

Golovin, V L, DVNIIGM, Vladivostok; Golovanov, B E, Far-Eastern Research Inst on Construction, Vladivostok, Russia

**Comparative Analysis on Ground Testing by Stamps under Russian/Finnish Procedures**

Kugno, V S, Golovanov, B E, Far-Eastern Research Inst on Construction, Vladivostok, Russia

**Artificial Foundations under Reservoirs on Thin Sea Silts with Peat Layers**

Belous, V V, Far-Eastern Research Inst on Construction, Vladivostok, Russia

**Opportunities of Tomography in Construction Survey**

Shkabarnya, N G, FESTU, Vladivostok; Shkabarnya, G N, Far-Eastern Research Inst on Construction, Vladivostok, Russia

**Investigation of Joints in Steel Structures**

Sobovoy, S A, FESTU, Vladivostok, Russia

**Study of Steel Profiled Deck with Flat Corrugations in Monolith Reinforced Concrete Flooring**

Salnikov, D A, FESTU, Vladivostok, Russia

**Foundations on Short Sand Piles**

Popov, E V, FESTU, Vladivostok, Russia

**Mini Power Station in Local Energy Systems**

Solonitsin, A G, Hydrotex Co., Ltd., Vladivostok, Russia

**Setting of a Problem of Calculation of Growing Element of Hydrobiotechnic Structures**

Zhukov, K A, FESTU, Vladivostok, Russia



## GENERAL INFORMATION

**PLACE AND DATE:** Vladivostok, Russia, September 12-16, 2004

**All ISOPE-PACOMS-2004 Symposium Events and Registration, except Symposium Tour will take place at:**

**Hyundai Hotel**

29 Semenovskaya st., 690000, Vladivostok, Russia

Tel (4232) 40-75-07, fax (4232) 40-70-06

**FESTU Reception** (12.09.2004 at 19:00) and **PACOMS Symposium Banquet** (15.09.2004 at 18:00) will be held at Hall Diamond of **Hyundai Hotel**.

**PARKING:** Free parking.

**LANGUAGE**

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

**AIR TRAVEL**

Major airlines fly from Moscow, St. Petersburg, Khabarovsk, Yuzhno-Sakhalinsk, Seoul, Dalian, Mudanzang, Niigata, Osaka, Busan, Tokyo, Toyama, Tidjing, Kharbin to Vladivostok Airport. Participants should plan early and ask their local travel agents to obtain the *most favorable flight routes*. Early bookings may offer most convenient routes.

**CURRENCY EXCHANGE**

Currency can be exchanged either at the airport bank or local bank. Note the exchange rate fluctuation (29.0388 Roubles per US\$1.00 as of July 1<sup>st</sup>, 2004).

**AIRPORT TO VLADIVOSTOK**

**Hotel Hyundai bus and special PACOMS bus from Vladivostok Airport to hotels will be arranged especially to meet PACOMS-2004 participants.** It takes about 1-hour ride to Hotels.

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

Make early room reservation at **PACOMS-2004 Secretariat**. If you want to stay at another hotel, please contact the secretariat by email: [PACOMS2004@vladivostok.ru](mailto:PACOMS2004@vladivostok.ru)

**CITY TRANSPORTATION**

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

**SYMPOSIUM TOUR, September 16th: All Day**

One-day excursion to the construction site of **Sakhalin II Concrete Gravity Base Structure (CGBS) Project in Vostochny Port** where two concrete platforms are under construction for Sakhalin Energy Investment Company. The platforms are to be installed at the Piltun-Astokhskoe and Lunscoe oil and gas fields offshore the Sakhalin Island.

**Make your reservation** in advance by indicating in the advance registration form or Email to [PACOMS2004@vladivostok.ru](mailto:PACOMS2004@vladivostok.ru).

**SPOUSE PROGRAM**

**Rich choice of various tours and voyages through Tourist Companies will be advised at registration in Hotel Hyundai. Among such tours the following are possible:**

- Sea Coast SHAMORA and All-Russian Children's Center
- Voyage over the Golden Horn Bay
- Visit to the Fortress of Vladivostok
- Visit to Oceanarium and Arseniev's Museum of Regional History

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

**Russian** participants register through PACOMS-2004 Secretariat. Remember to send via airmail the Advance Registration (*and Invoice*) Form in this Program or a copy to reach **ISOPE PACOMS-2004 Secretariat, Vladivostok, Russia before August 1<sup>st</sup>**. Forms received **after August 1<sup>st</sup>** will be processed at additional surcharge of Rbbls 500. Registrants will not be separately invoiced.

**Non-Russian** participants. Register through ISOPE: [meetings@isope.org](mailto:meetings@isope.org)

**NON-RUSSIANS. ISOPE PACOMS-2004 ADVANCE SYMPOSIUM REGISTRATION FEES (if received before August 12, 2004)**

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: **After the deadline, add US\$50 surcharge.**

*Presenting author should register by July 15.*

Category	Advance Registration Fee (US \$)*	
	Received before <b>August 12</b>	
<input type="checkbox"/> Author, Co-authors	350	_____
<input type="checkbox"/> Session or Symposium Chair, Co-Chair	350	_____
<input type="checkbox"/> ISOPE Member	350	_____
<input type="checkbox"/> ISOPE member with new application (incl. 2003 membership fee and 1-year journal issues)	440	_____
<input type="checkbox"/> Non-Member	420	_____
<input type="checkbox"/> Spouses (no proceedings)		
<input type="checkbox"/> Reserve a seat for Spouse Program, Tuesday	20	_____
<input type="checkbox"/> Full-time Student with 2004 ID Card	250	_____
<input type="checkbox"/> Reserve a seat for Symposium Tour	Free	_____

\* The fee in this table is for **non-Russians**. The Symposium registration fee **includes** FESTU Reception, PACOMS Banquet, tea breaks, and symposium proceedings.

**REGISTRATION CANCELLATIONS**

Request for cancellation of registration must be received in writing by **August 18, 2004** 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:

Sunday, Sept. 12 09:00-16:00      Wednesday, Sept. 15 09:00-12:00

### **ISOPE PUBLICATION ORDER**

A copy of **ISOPE PACOMS-2004 Symposium Proceedings** (CD-ROM and hard copy, **ISBN 1-880653-63-X**) is included in the symposium registration fees. A single-volume proceedings in CD-ROM (400 pp. est.) can be ordered by E-, Fax or postal mail at the rates of:

Mail order at \$100 (ISOPE Member \$80) plus airmail 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.)

### **SYMPOSIUM HEADQUARTERS**

*Emerald*

### **FESTU RECEPTION**

18:30-20:30 Sunday

Diamond

### **PACOMS SYMPOSIUM BANQUET**

19:00-21:00 Wednesday

Diamond

### **AUDIO VISUAL PRACTICE**

*Emerald*

An **overhead** projector, a 35-mm **slide** projector, a **power-point** projector connected to PC ([Read Author Information form](#)) and screen will be set up during 08:00-17:00 (Monday and Tuesday) in the session rooms. **INTERNET is provided by Business Center on the 2<sup>nd</sup> floor.**

### **CHAIR AND CO-CHAIR BRIEFING**

*Diamond*

Session chairs and co-chairs will be briefed at 10:30 on Monday, and at 08:00 on Tuesday and Wednesday. Only session chairs and co-chairs will be briefed, as the presenters need time to upload **USB drive or CD-ROM.**

### **INTERNATIONAL PARTICIPANTS AND VISA APPLICATION**

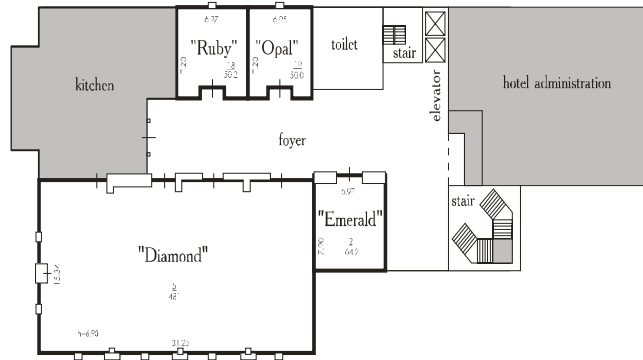
International authors, participants or attendees who need help (except financial) can contact: Prof. A. Bekker, PACOMS-2004 Secretariat, 10, Pushkinskaya St., Vladivostok 690950, Russia, phone: 7 (4232) 450890, fax: 7 (4232) 451618, email: [PACOMS2004@vladivostok.ru](mailto:PACOMS2004@vladivostok.ru).

**Entry Visa.** Some participants may be required to apply for an entry visa. Please get an application form at the Russian Consulate in your country. PACOMS-2004 Secretariat may assist, if filled visa-forms received by Secretariat by July 10<sup>th</sup>.

### **CLIMATE**

The weather in Vladivostok in September is very nice and pleasant, as usual. Temperature is around 15°C~20°C.

Function rooms. Floor 3.



Hyundai Hotel, Vladivostok: Meeting Rooms

**ISOPE OMS-2005 Changsha**

*The 6th ISOPE Ocean Mining Symposium*

Changsha, Hunan, China, October 10–13, 2005

**Call For Papers**

**Abstract Deadline**                      **January 15, 2005**

Download from [www.isopec.org](http://www.isopec.org)  
or E-mail to [meetings@isopec.org](mailto:meetings@isopec.org).

## HOTEL RESERVATION FORM

(Must Use This Form)

Hyundai Hotel, Vladivostok, Russia

September 12–16, 2004

Hyundai Hotel, Vladivostok is the official venue for the PACOMS-2004. For **guaranteed reservation**, this form must be received **via either e-mail or fax** no later than August 15:

*E-mail this form to Prof. Bekker with the address below. PACOMS2004 Secretariat will notify you of the reservation confirmation.*

**Prof. Alexander T. Bekker**, PACOMS-2004 Secretariat  
c/o Far Eastern State Tech Univ.

Div. of Hydroengineering

10 Pushkinskaya Str.

Vladivostok 690600, Russia

[PACOMS2004@vladivostok.ru](mailto:PACOMS2004@vladivostok.ru); Fax: +7 (4232) 451618

First (Fore)

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

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

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

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

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

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

Arrival September \_\_\_\_, 2004: Departure September \_\_\_\_, 2004

\*(29.0388 Roubles = US\$1.00 as of July 1, 2004)

Hotel	Room Rates (US\$)
<b>Hyundai Hotel</b> (Symposium Venue)	<input type="checkbox"/> 1-person room – 140 <input type="checkbox"/> 2-person room – 180
<b>Versal Hotel</b> (800 m from Hyundai Hotel ); Tel. +7-4232-26-42-10: +7-4232-26-42-74	<input type="checkbox"/> 1-person room – 140 <input type="checkbox"/> 2-person room – 175 <input type="checkbox"/> Lux – 274

**Note : Room rates include tax**, but do not include meals.

LOC has already reserved for all the participants and guests a necessary number of rooms at Hyundai and Versal hotels. If you are going to stay there, just submit a filled form with your arrival date at Vladivostok.

**DEADLINE: August 15, 2004**

**CANCELLATION:** Email or fax the room cancellation to PACOMS2004 Secretariat, **15 days or earlier** before your arrival date in the reservation.

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

**Reservation after August 15 is subject to room availability**

## **TECHNICAL PROGRAM**

### **ISOPE PACOMS-2004**

**Vladivostok**

**September 12-16, 2004**

*Find Forms for the Hotel Reservation and Advance Registration inside this program, and*

*Fax symposium registration form to:*

(Non-Russian Participants); ISOPE Fax: +1-650-254-2038 ; [meetings@isope.org](mailto:meetings@isope.org)

(Russian Participants); ISOPE PACOM-2004 Secretariat [PACOMS2004@vladivostok.ru](mailto:PACOMS2004@vladivostok.ru); Fax: +7 (4232) 451618

*Hotel reservation form and visa invitation form: Get from: [PACOMS2004@vladivostok.ru](mailto:PACOMS2004@vladivostok.ru)*

### **Future ISOPE Meetings**

#### **ISOPE-2005 Seoul, Korea**

**June 19–24, 2005**

Call For Papers and Program on [www.isope.org](http://www.isope.org)

#### **ISOPE OMS-2005 Changsha, Hunan, China**

**October 10–13, 2005**

Call For Papers on [www.isope.org](http://www.isope.org)

#### **ISOPE-2006 San Francisco**

**May 28–June 2, 2006**

Call For Papers on [www.isope.org](http://www.isope.org)

International Society of



**Offshore and Polar Engineers**

P.O. Box 189

Cupertino, CA 95015-0189, USA

**Fax: 1-650-254-2038**

[meetings@isope.org](mailto:meetings@isope.org); [www.isope.org](http://www.isope.org)