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4th Frontier & Clean Energy Tech
10th High-Performance Materials
1st Asset Integrity
6th Strain-Based Design

Technical Program

Refereed papers from some 52 countries in some 150 sessions and General and keynote sessions
General Information, Reservations, Publication and Program Updates on www.isope.org; www.isope2012.org
Forms for Advance Registration and Venue Hotel: Inside this program and on www.isope.org

Organized by:
Technical Program Committee, ISOPE
Sponsored by:
International Society of Offshore and Polar Engineers (ISOPE) with cooperating organizations (list inside)

ISOPE, P.O. Box 189
Cupertino, CA 95015-0189, USA
Fax: +1-650-254-2038
meetings@isope.org; www.isope.org

GENERAL INFORMATION

Further details are to be updated on www.isope.org.

PLACE AND DATE: Rhodes (Rodos), Greece June 17–22, 2012

All ISOPE-2012 Conference’s technical events, reception, annual banquet, tea breaks and registration will take place at:

RODOS PALACE HOTEL
Triantton Ave. Ixia P.O.Box 121
85100 Rhodes, Greece
Tel:(+30) 22410 25222

HOTEL RESERVATIONS
Please make your reservation directly with the Hotel. Use the Hotel Reservation Form for online, email or fax reservation: (Reservation Form in PDF)
You can also download this form in December from www.isope.org or www.isope2012.org.
LANGUAGE
The language for the conference is English. No translation services will be available.

AIR TRANSPORTATION

Diagoras Airport is located on the island of Rhodes (Rodos). The airport is located 14km south west of the capital, the city of Rhodes, near the village of Paradisi.

Domestic Flights
Airlines serving Rhodes from the Greek mainland are: Olympic Airlines and Aegean Airlines.

Diagoras connects Rhodes with Athens (Eleftherios Venizelos International Airport) on a daily basis (up to 8 flights/day), with Thessaloniki (Makedonia International Airport), Heraklio and Cyprus (3 to 5 times/week) and with the nearby islands of Kastelorizo, Karpathos, Kasos, Kos, Mytilini, Limnos, Chios and Samos.

International Flights
There are regular international flights to and from most European cities, mainly during the summer, as well as a large number of flights to and from the rest of the world. There are many international direct flights to Athens, including 10 daily flights between Athens and Rhodes.

Visitor information counters are located throughout Diagoras airport (Tel. +30-22410-83200). For the most current flight service contact your travel professional.
**GROUND TRANSPORTATION**

Ground transportation services from the Diagoras Airport to the venue hotel **RODOS PALACE HOTEL** (12 km distance or 15 minutes travel time) are provided by:

**Taxi:** Service is available in the exit of the airport. **Cost:** Approximately less than €25.00 total (Maximum allowed up to four people with luggages per Taxi).

**Bus:** Service is available 300m from the exit of the airport. **Cost:** Approximately €4.00 (Bus schedules not very reliable).

**Rental Car:** Avis, Hertz, Budget, Drive, Europe Car, Holiday Auto, National-Alamo and Sixt rental desks are adjacent to baggage claim.

**Diagoras Airport to Rodos Palace Hotel by Rental Car**
Distance is 12 km and driving time will be about 15 minutes.
Description

- You start at **Leoforos Eleftherias**.
- Turn left onto **Leoforos Eleftherias**.
- You are entering **Petaloudes**.
- Follow the **Leoforos Eleftherias**.
- Change from **Leoforos Eleftherias**, in direction **Rodos**.
- You just left **Petaloudes**.
- Follow the **Leoforos Eleftherias**.
- Leave **Leoforos Eleftherias**, and head straightforward onto **Leoforos Irakleidon**.
- You are entering **Ialysos**.
- Follow the **Leoforos Irakleidon**.
- You just left **Ialysos**.
- Follow the **Leoforos Irakleidon**.
- You have arrived at your destination.

**HOTEL PARKING**
The Rodos Palace Hotel offers self-parking (300 spaces) at no cost to registered guests.

**MARINE TRANSPORTATION**
The Commercial Port (Mandraki Location) is located in the City of Rhodes

**Sea Connections**
There are daily sailings from Piraeus all year round, more frequent in the summer months. All international and domestic ferries and cruise liners dock at the commercial port of Rhodes. There are regular ferry lines connecting Rhodes to Athens (Piraeus), Thessaloniki, Heraklion, Cyprus and Dalaman (Marmaris)– Turkey. Rhodes is also connected with all neighboring islands through extensive boat and hydrofoil services. Most of them dock at the commercial port and some at the Mandraki harbor.

**Istanbul → Rodos (Rhodes) Option:**
One-hour flight from Istanbul to resort town Dalaman International Airport.
One-hour shuttle-bus transfer to Marmaris port.
One-hour catamaran ferry ride from Marmaris port to Rodos (Rhodes) port.

**Istanbul → Dalaman.** Several airlines operate one-hour flight from Istanbul to Dalaman airport. There are several (domestic) flights from early morning to late night during the day. Shuttle bus runs between Dalaman airport and Marmaris, one of the most popular Turkish resort city with many five-star hotels.

**Dalaman/Marmaris — Rodos (Rhodes).** Ferry by Greek and Turkish companies operates every day except Sunday departure at only 09:00 and 09:30 in the morning and return at only 16:00 in the afternoon. Round trip ticket is about 40-50 euro for catamaran ferries.

There are several ferry agents in Marmaris Port. Ferry online booking can be made by visiting following websites:


*During the peak summer tourist season, very early booking is advised.*

**Fethiye — Rodos (Rhodes).** A Turkish company operates ferry service from Fethiye (2-3 times weekly).

Please fill in specific ferry reservation for website and ferry frequency, and entry visa office location and phone number or website. But best way for making reservation is to ask from your travel agency. You can also contact Prof.Dr. Sedat KABDASLI at kabdaslis@itu.edu.tr, if necessary for finding local travel agency.
Transportations from the Commercial Port to the Hotel (12km-10minutes):
Taxis
Regular public bus service

SHOPPING
In Ixia Area just around the hotel.
In the City Of Rhodes and Medieval Town (5 minutes by car or 4 km)

CURRENCY EXCHANGE
Cash dispensers (ATMs) that accept all major credit/debit cards can be found at several locations in the airport, and at banks and retail areas throughout the city. Currency exchange services will charge either a flat fee for small denominations or a percentage of the amount exchanged: usually the exchange rate is more favorable at the banks. There is an ATM machine very close to the Rodos Palace Hotel.

TAX
Purchases in are subject to a sales tax of 23% (as of August of 2011) of the purchase price included in sales price with no tax rebate.

CITY TRANSPORTATION
Coach or Boat Sightseeing (Tours organized by Local Travel Agents)
Rental Car/Motorbike
Taxi
Regular public bus service.

ELECTRICITY AND ADAPTER
Appliances operate on 220 volts.

TIMEZONE
Central European Time
GMT +2 hours

CURRENCY
Euro

LANGUAGES SPOKEN
Greek, English, German, Italian, French

TIPPING
At the restaurants, most of the time service charge is included in the price of the food. It is customary but not obligatory to give a tip of 5% to the waiter at the restaurant. In the Taxis it is not necessary to tip the driver. In the hotel, it is customary to tip the bellman with 2 to 5 € for handling the luggage upon checking in and checking out from the hotel.

HOURS OF OFFICE AND BUSINESS OPERATION
- Shopping hours in the City of Rhodes: Monday to Friday from 9:00 to 13:00 and from 17:00 to 21:00, Saturday from 9:00 am to 14:00 pm. In the Medieval Town & tourist areas Monday-Sunday all day long
- Banks are generally open 8:00 am to 2:00 pm Monday to Friday.
- There is a pharmacy very close to the Rodos Palace Hotel. At the Rodos Palace, there is no medical doctor, however a doctor can come to the hotel upon request and at the expense of the hotel guest.

INTERNET ACCESS
- Wireless Internet Access in all the public areas with Wi-Fi at 6 euro for 1 hour and 19.5 euro for 24 hours. Access cards can be purchased from the Hotel Reception Desk.
- In-Room Internet connection at the same rates as Wi-Fi.

IN HOTEL BUSINESS SERVICES (with charge)
- Business Services (Mail, Fax, Email, Photocopying etc.)
- Audiovisual Equipment
- PC’s & Printers available
- Private Transfers & Car Hire
- Laundry & Dry Cleaning

DINING & ENTERTAINMENT
At Rodos Palace, Greek traditional or international, formal or casual, but always delectable cuisine is served in 10 different restaurants (Gallery Cafe, La Terasse Restaurant, Pool Restaurant, Ambrosia Restaurant, Castellania Restaurant, Superfamily Restaurant, La Rotisserie Gourmet Piano Restaurant, 12 Nissia Gourmet Restaurant, La Terasse Bar, Amphitrition Piano Bar).
WEATHER

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<th>Av Temp. ºC</th>
<th>Hum.</th>
<th>Rainf.</th>
<th>Winds</th>
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<tr>
<td>June</td>
<td>Avg</td>
<td>Max.</td>
<td>Min.</td>
<td>%</td>
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<tr>
<td>Rhodes</td>
<td>24.7</td>
<td>28.4</td>
<td>19.9</td>
<td>58.5</td>
</tr>
</tbody>
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FOR YOUNGER GUESTS
The Kids Funland area features facilities and services such as: A Family Lagoon type Pool, curvaceously designed with a shallow children’s end, set attractively in sun terraces backed with long mature trees. Playground and Playcenter units for kids 4-12 years old, with cyclone, wave, hurricane slides and curved, loop and bumper ladders. A soft-play room for babies and under 4, and a Playroom with games and toys for 4-7 years of age along with a whole range of baby equipment.

ACTIVITIES AND ATTRACTIONS
When the gods divided the world between themselves, so an ancient legend goes, Helios (the sun god) noticed an island emerging from the sea. He was so fascinated by its beauty that he immediately asked Zeus whether he might have this island as his share. Rhodes was that island. An island that glided and glides still, like a dolphin, over the waves in the transparent seas of the south-eastern Aegean, where West meets East. Wreathed in golden beaches, with bright green hills and valleys, and bathed in the light of the god Helios (her ancient patron), it is a place favored by nature, made on a human scale.
The island of Rhodes is situated between the Aegean and the Mediterranean seas about 11 km from the coast of Asia Minor (Turkey). It has a population of about 100,000 inhabitants. It is by far the largest island in the Dodecanese with an area of about 1400 sq. km. Rhodes is diamond-shaped, 77 km long with a maximum width of about 36 km. There is a range of hills rising in the center with mount Ataviros the highest at about 1200m. Finally much of the island is fertile with a variety of fauna and flora.

Rhodes offers a full range of activities and attractions to enjoy such as swimming, sailing, medieval, antiquities, and numerous sightseeing opportunities. The following websites provide useful information you should find helpful in planning your Rhodes visit.

Guide Book

Local Sites of Interest
SIGHT SEEING AND TOUR PROGRAM
There are several travel agents in the island of Rhodes that can organize for the ISOPE participants customized visits to several places of interest in the island.

Visit Concierge Desk at Rodos Palace Hotel or Visit Tour Desk near Conference Registration area.

ADVANCE CONFERENCE REGISTRATION
Registration fee starts at $670 and lower for the students. Click here for advance registration form.
Mail your registration form together with your payment to:
Advance Registration Deadline:

Presenting Authors: March 24, 2012.
Non-authors and non-presenting authors: May 18, 2012

REGISTRATION BADGE
Conference registration badges are required for admittance to all the conference activities, including the reception and banquet.

ON-SITE CONFERENCE REGISTRATION:
Grand Promenade
Participants who miss the advance registration (before May 18) may register on site at the Conference Registration Desk, but there is US$100 surcharge. The registration desk will be open during the following hours:

Sunday, June 17 15:00-18:00 Wednesday, June 20 08:00-15:00
Monday, June 18 07:30-16:00 Thursday, June 21 08:00-13:00
Tuesday, June 19 08:00-16:00

ISOPE-2012 CONFERENCE PROCEEDINGS
A 4-volume ISOPE-2011 conference proceedings on CD-ROM (ISBN 978-1-880653-94-4; ISSN 1098-6189) is included in all conference registration fees. For additional or separate orders, download the publications order form from www.isope.org for post-conference order:

A 4-volume Conference Proceedings CD-ROM (4,200 pp. est.)
Mail, E-mail or Fax order $290 (ISOPE Member $240)

E-mail or Fax Order 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, or AMEX; international money order or U.S. bank checks in US Dollars payable to ISOPE will be accepted. Shipping and handling charges will be added (Download the Publication Order Information from www.isope.org.).

CONFERENCE RECEPTION
Sunday, 17:00 Outdoor Pool Area
ANNUAL CONFERENCE BANQUET
Wednesday Super Dome Pool

AUTHOR USB TEST Individual session rooms
Power-point or LCD projector and screen are available
during 08:00-17:00 (Monday - Thursday).

CHAIR/CO-CHAIR BRIEFING
The session chairs and co-chairs will be briefed at 07:30
each morning near the registration desk Grand Promenade
and will pick up session jacket for author briefings on the
day of presentation.
Chairs and co-chairs will also be emailed brief instructions
in advance, including the manner of each session conduct
and information on authors and presentation.

PRESENTING AUTHORS should go directly to their
session room 30 minutes before the session and check out
the USB presentation file.

INFORMATION - MESSAGE CENTER.
The information and message center is located in the
registration area. One may contact ISOPE Conference
Registration Desk at Rodos Palace Hotel.

INTERNATIONAL PARTICIPANTS AND VISA APPLICATION
International authors, participants or attendees who need help (except
financial) can contact: ISOPE-2012 Secretariat, 495 North Whisman
Road, Suite 300, Mountain View, California 94043-5711 USA. Fax: +1-
650-254-2038; email: meetings@isope.org.

Entry Visa. Some authors, spouses and participants may be required to
apply for an entry visa.
Visa application form. Get it from the Consulate Office of Greece in
your country. For visa application information, on www.mfa.gr > visa.
If the Consulate requires you to submit an official letter of invitation, please
contact ISOPE, USA (email: meetings@isope.org; Fax: +1-650-254-2038).

TAX DEDUCTIBILITY
Expenses of attending professional meetings such as the
registration fee and cost of technical publications may be
tax-deductible as ordinary expenses for citizens of U.S.
and some other countries.

CLIMATE
The climate in Rhodes in the month of June will be sunny
and pleasantly warm (low humidity), with the West winds
to keep you cool and comfortable. Swimming and other
water activities will be very pleasant.
PUBLICATION ORDER INFORMATION

To order, download the publication order form from www.isope.org > orders, www.isope.org > publications, www.isope2012.org or e-mail to orders@isope.org asking for the order form, and enclose the correct amount of payment or purchase order, and mail to:

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495 North Whisman Road, Suite 300
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Fax 1-650-254-2038: orders@isope.org.

AUTHOR INDEX AND SUBJECT INDEX

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Proceedings of Special Offshore Symposium China (SOSC-94) /the 3rd (1994) Pacific/Asia Offshore Mechanics Symposium (PACOMS-94), Beijing, China,


Eighth (2010) ISOPE High-Performance Materials Symposium, ISOPE HPM-2010), Beijing, China:
Published in CD-Rom, (ISBN 978-1-880653-77-7; ISSN 1098-6189): 4,176 pp., $290 (ISOPE Member; $240).


Fourth (2010) ISOPE Strain-Based Design Symposium, ISOPE SBD-2010, Beijing, China, June 20–26, 2010: Published in CD-Rom (ISBN 978-1-880653-77-7; ISSN 1098-6189): 4,176 pp., $290 (ISOPE Member; $240).


Membership Application

Download the application form from www.isope.org > membership.
Please email to: ISOPE Membership; meetings@isope.org
Prospective authors are invited to submit abstract to:

**PACOMS-2012 Vladivostok**

The 10th (2012) ISOPE
Pacific-Asia Offshore Mechanics Symposium
Vladivostok, Russia, September 30–October 3, 2012

**Call For Papers**

Abstract Deadline: February 1, 2012
Manuscript Deadline (for review): April 15, 2012

Three-day symposium is being organized; For detail, visit [www.isope.org](http://www.isope.org).

E-mail your abstract in 300-400 words to:
(1) One of the PACOMS IOC members (session organizers); (2) PACOMS-2012 IOC, 495 North Whisman Road, Suite 300, Mountain View, California 94043-5711 USA: Fax: +1-650-254-2038; E-mail to meetings@isope.org.
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International Society of Offshore and Polar Engineers

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1. Abstracts of papers, all peer-reviewed are available at www.isope.org > Publications
2. Back issues (March 1991- ) are available at $100 (Members, $50) per annual set of 4 issues.
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Prospective authors are invited to submit abstract to:

**ISOPE–2013 Anchorage, Alaska, USA**

The 23rd (2013) International
Ocean (Offshore) and Polar Engineering Conference
Anchorage, Alaska, USA, June 30–July 5, 2013

**First Call For Papers**

Abstract Deadline **October 20, 2012**  
Manuscript (for review) Deadline **January 15, 2013**

The International Society of Offshore and Polar Engineers (ISOPE) is organizing about 100 sessions of refereed papers including special sessions of timely topics in cooperation with international technical program committee (TPC) members and cooperating organizations. Delegates from more than 50 countries are expected. All manuscripts will be peer-reviewed prior to the final acceptance. The conference proceedings will be available at the conference. Papers of archival value may be further reviewed for possible publication in the *International Journal of Offshore and Polar Engineering*.

**Main fields of interest are:**

- Hydrodynamics
- High Perform. Maths
- Strain-Based Design
- Ocean Technology
- Asset Integrity
- CFD, NWT & Code
- Materials & Welding
- Offshore Mechanics
- Risers, Pipelines, Cables
- MetOcean
- Subsea &Umbilicals
- Ocean Engineering
- VIV and Design
- FPSO, TLP, SPAR
- Safety, Risk, Reliability
- Arctic Science & Tech
- Tubular & Linepipe
- Arctic Passage
- Composites
- Ocean Materials
- Arctic Passage
- Advanced Ship Tech
- Coastal Engineering
- Arctic Passage
- Safety, Risk, Reliability
- Underwater Systems
- Safety, Risk, Reliability
- Nonlinear Waves
- Subsea &Umbilicals
- Renewable Energy
- Coating & Corrosion
- Control, Simulation
- Energy & Environment
- Coastal Engineering
- Geotechn & Envir Eng
- Environment & Modeling
- Composites
- Gas Hydrates & Ocean Resources
- Earthquake Engineering
- Emerging Topics

The abstract should stress the originality and the significance of the results, and include the complete names, postal and e-mail addresses and fax numbers of all authors.

Send (E-mail, online) your abstract in 300–400 words to:  
(1) Submit online on www.isope.org or www.isope2013.org;  
(2) One of the TPC members (session organizers); or  
(3) ISOPE-2013 TPC, ISOPE, 495 North Whisman Road, Suite 300, Mountain View, California 94043-5711, USA:  
Fax: +1-650-254-2038; meetings@isope.org.

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