Welcome to ISOPE-2003

We greatly appreciate the excellent responses and help we have received from colleagues around the world in the successful organization of the 13th International Offshore and Polar Engineering Conference (ISOPE-2003), Honolulu, May 25 -30, 2003. The Conference features 89 sessions of refereed papers and 4 plenary sessions from more than 45 countries.

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 high quality (in both originality and significance) papers accepted through rigorous review, establishing high international standards for publication and worldwide distribution and promoting interdisciplinary interaction between academia and industry.

The International Society of Offshore and Polar Engineers (ISOPE) has already held 23 successful international meetings:
• The Annual ISOPE conferences, starting in Edinburgh, 1991 were 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 the Technical Program Committee, it is our pleasure to welcome participants from all over the world to the ISOPE-2003 Conference in Honolulu.

Jin S Chung, USA	Ronald H Knapp, USA
Wataru Koterayama, Japan	Ivar Langen, Norway

Co-chairmen of the ISOPE-2003 Conference
SUNDAY MAY 25

09:00  ISOPE Board of Directors Meeting  EkahiC
12:00  ISOPE-2003 Executive Committee Meeting  EkahiC
          EUROMS and PACOMS Executive Committees
15:00-18:00  CONFERENCE REGISTRATION  Regency Ballroom Foyer
17:00-18:00  CONFERENCE RECEPTION  Pool Terrace
For Tour Information  (see the ISOPE bulletin board at Registration)

MONDAY MAY 26

07:30  Author Briefing  Makai
08:00  Conference Opening  Mauka/Maloko
08:00  1. OCEAN TECHNOLOGY REVIEW (V. 1)  Mauka/Maloko

10:45  2. FPSO: CFD & Validation (V. 1)  Makai
6. HYDRODYNAMICS DF-II: Forces 1 (V. 3)  Leahi
7. MECHANICS: STRUCT & MEMBRANE  (V. 4)  Ewa Ballroom
8. RISERS/CABLES/MOORING I (V. 2)  Elima
9. OCEAN & ARCTIC ENVIRONMENT I (V. 2)  Ekolu
10. COMPOSITES & SMART STRUCTURE I (V. 4)  Eha

13:20  PLENARY I (Chwang, Hydrodynamics)  Makai
       PLENARY II (Balaguru, Composites)  Ewa Ballroom

14:00  11. GEOTECH: Cassions and Anchors (V. 2)  Makai
12. HYDRODYNAMICS W-II: Waves 2 (V. 3)  Maloko
13. GEOTECH: Soil Properties 2 (V. 2)  Mauka
14. HYDRODYNAMICS VIV-I: Vortex Shedding (V. 3)  Ekah!
15. HYDRODYNAMICS DF-III: Forces 2 (V. 3)  Leahi
16. HMOR I : Steel Development (V. 4)  Ewa Ballroom
17. RISERS/CABLES/MOORING II (V. 2)  Elima
18. OCEAN & ARCTIC ENVIRONMENT II (V. 2)  Ekolu
19. COMPOSITES & SMART STRUCTURE II (V. 4)  Eha

17:00  ISOPE Technical Committee Meetings  Makai
### TUESDAY MAY 27

07:30  Author Briefing

08:00

20. OFFSHORE I Engineering 1 (V. 1)  
21. HYDRODYNAMICS W-III: Waves 3 (V. 3)  
22. GEOTECH: Soil Properties 3 (V. 2)  
23. COASTAL ENG I: Breakwater Dynamics (V. 3)  
24. HYDRODYNAMICS DF-IV: Dynamics 1 (V. 3)  
25. HMOI II : Offshore Materials (V. 4)  
26. RISERS/CABLES/MOORING III (V. 2)  
27. OCEAN & ARCTIC ENVIRONMENT III (V. 2)  
28. ADV SHIP, PROPULSION & OCEAN TECH I (V. 4)  

08:00

20. OFFSHORE I Engineering 1 (V. 1)  
21. HYDRODYNAMICS W-III: Waves 3 (V. 3)  
22. GEOTECH: Soil Properties 3 (V. 2)  
23. COASTAL ENG I: Breakwater Dynamics (V. 3)  
24. HYDRODYNAMICS DF-IV: Dynamics 1 (V. 3)  
25. HMOI II : Offshore Materials (V. 4)  
26. RISERS/CABLES/MOORING III (V. 2)  
27. OCEAN & ARCTIC ENVIRONMENT III (V. 2)  
28. ADV SHIP, PROPULSION & OCEAN TECH I (V. 4)  

10:45

29. OFFSHORE II: Engineering 2 (V. 1)  
30. HYDRODYNAMICS W-IV: Waves 4 (V. 3)  
31. GEOTECH: Seabed and Slope Deformation (V. 2)  
32. COASTAL ENG II: Harbor Facilities (V. 3)  
33. HYDRODYNAMICS DF-V: Dynamics 2 (V. 3)  
34. HMOI III : Pipeline Technology (V. 4)  
35. RISERS/CABLES/MOORING IV (V. 2)  
36. OCEAN & ARCTIC ENVIRONMENT IV (V. 2)  
37. ADV SHIP, PROPULSION & OCEAN TECH II (V. 4)  

13:20

PLENARY III (Ewida, PatroCanada)

14:00

38. OFFSHORE III: FPSO/SPAR/VLFS 1 (V. 1)  
39. HYDRODYNAMICS W-V: NWT (V. 3)  
40. GEOTECH : Foundation 1 (V. 2)  
41. COASTAL ENG III: Waves (V. 3)  
42. HYDRODYNAMICS DF-VI: Dynamics 3 (V. 3)  
43. MATERIALS/WELDING/FATIGUE I (V. 4)  
44. PIPELINES I (V. 2)  
45. POLAR & ICE I: Atmospheric Icing (V. 1)  
46. UNDERWATER VEHICLES & SYSTEMS I (V. 2)  

Spouse Program  
see Bulletin Board

16:30  Board of Editors Meeting Board Room  
Ewa Boardroom

19:00  ISOPE-2003/-2004 Toulon TPC Meeting  
see Bulletin Board

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### Wednesday, May 28

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<tr>
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<td>Author Briefing</td>
<td>Makai</td>
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<td>08:00</td>
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<td>07:30</td>
<td>OFFSHORE IV: FPSO/SPAR/VLFS 2 (V. 1)</td>
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<td>08:00</td>
<td>METOCEAN I: Waves/Sea States (V. 3)</td>
<td>Maloko</td>
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<td>08:00</td>
<td>GEOTECH: Foundation 2 (V. 2)</td>
<td>Mauka</td>
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<td>08:00</td>
<td>COASTAL ENG IV: Structure and Foundation (V. 3)</td>
<td>Ekahi</td>
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<td>08:00</td>
<td>GEOTECH: Soil Mechanics (V. 2)</td>
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<td>MATERIALS/WELDING/FATIGUE II (V. 4)</td>
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<td>PIPELINES II (V. 2)</td>
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<td>08:00</td>
<td>POLAR &amp; ICE II: Ice Properties (V. 1)</td>
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<td>08:00</td>
<td>UNDERWATER VEHICLES &amp; SYSTEMS II (V. 2)</td>
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<td>OFFSHORE V: FPSO/SPAR/VLFS 3 (V. 1)</td>
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<td>10:45</td>
<td>COASTAL ENG V: Floating Breakwater (V. 3)</td>
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<td>10:45</td>
<td>GEOTECH: Geosynthetics and Soil Improvement (V. 2)</td>
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<td>MATERIALS/WELDING/FATIGUE III (V. 4)</td>
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<td>POLAR &amp; ICE III: Ice Forces (V. 1)</td>
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<td>RESOURCES &amp; ENERGY I (V. 1)</td>
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<td>13:20</td>
<td>PLENARY IV (Olagnon/Quiniou-Ramus, MetOcean)</td>
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<td>OFFSHORE VI: FPSO/SPAR/VLFS 4 (V. 1)</td>
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<td>14:00</td>
<td>GEOTECH: Soil Dynamics 1 (V. 2)</td>
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<td>COASTAL ENG VI: Current/Long Period Motion (V. 3)</td>
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<td>GEOTECH XI: Pile Foundation (V. 2)</td>
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<td>14:00</td>
<td>RELIABILITY, RISK &amp; SAFETY I (V. 4)</td>
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<td>14:00</td>
<td>COLLISION, IMPACT &amp; SLAMMING II (V. 4)</td>
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<td>14:00</td>
<td>POLAR &amp; ICE IV: Design &amp; Navigation (V. 1)</td>
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<td>14:00</td>
<td>RESOURCES &amp; ENERGY II (V. 1)</td>
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<td>19:00</td>
<td>Annual Banquet</td>
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Authorization
Audio/Visual Practice
Bottled Water
**THURSDAY MAY 29**

07:30  Author Briefing  
Makai

08:00

74. OFFSHORE VII: FPSO/SPAR/VLFS 5 (V. 1)  
Makai

75. METOCEAN IV: Climatology (V. 3)  
Maloko

76. GEOTECH: Soil Dynamics 2 (V. 2)  
Mauka

77. COASTAL ENG VII: Waves Over Breakwater (V. 3)  
Ekahi

78. HYDRO LWT-I: Long Waves & Tsunamis I (V. 3)  
Leahi

79. RELIABILITY, RISK & SAFETY II (V. 4)  
Ewa Ballroom

80. COLLISION, IMPACT & SLAMMING III (V. 4)  
Elima

81. POLAR & ICE V: Ice Motion & Waves (V. 1)  
Ekolu

82. RESOURCES & ENERGY III (V. 1)  
Eha

10:45

83. OFFSHORE VIII: FPSO/SPAR/VLFS 6 (V. 1)  
Makai

84. GEOTECH: Soil Dynamics 3 (V. 2)  
Mauka

85. COASTAL ENG VIII: Sediment/Disaster (V. 3)  
Ekahi

86. HYDRO LWT-II: Long Waves & Tsunamis 2 (V. 3)  
Leahi

87. TUBULAR STRUCTURES (V. 4)  
Ewa Ballroom

88. RESOURCES & ENERGY IV (V. 1)  
Eha

12:30

OMWG Meeting  
Ewa Boardroom

13:00

89. HYDRO LWT-III: Long Waves & Tsunamis 3 (V. 3)  
Leahi

**CONFERENCE TOUR:** Buses depart at 14:15. See Bulletin Board for the place for the bus.

**FRIDAY MAY 30**

**OPTIONAL TOURS**

Visit the conference registration desk and check the ISOPE bulletin board on May 25, Sunday.
ISOPE-2003 Honolulu

The Conference features 89 technical and opening sessions and 4 plenary sessions with top experts from industry, academia and government. About 450 refereed papers will be presented and discussed by researchers, engineers and managers from more than 45 countries. The Conference Proceedings will be available in a set of 4 volumes on CD-ROM (2,800 pp. est.) during the conference and later for worldwide post-conference mail order from ISOPE.

SESSION LIST BY TOPICS

### OCEAN TECHNOLOGY REVIEW

1. OCEAN TECHNOLOGY REVIEW (V. 1)  

### OCEAN RESOURCES & ENERGY

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### OFFSHORE MECHANICS AND TECHNOLOGY

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### OCEAN AND ARCTIC ENVIRONMENT

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35. RISERS/CABLES/MOORING IV (V. 2) Elima

AUV AND UNDERWATER CONTROL

46. UNDERWATER VEHICLES & SYSTEMS I (V. 2) Eha
55. UNDERWATER VEHICLES & SYSTEMS II (V. 2) Eha

POLAR AND ICE ENGINEERING

45. POLAR & ICE I: Atmospheric Icing (V. 1) Ekolu
54. POLAR & ICE II: Ice Properties (V. 1) Ekolu
63. POLAR & ICE III: Ice Forces (V. 1) Ekolu
72. POLAR & ICE IV: Design & Navigation (V. 1) Ekolu
81. POLAR & ICE V: Ice Motion & Waves (V. 1) Ekolu

METOCEAN

48. METOCEAN I: Waves/Sea States (V. 3) Maloko
57. METOCEAN II: Sea States (V. 3) Maloko
66. METOCEAN III: Waves (V. 3) Maloko
75. METOCEAN IV: Climatology (V. 3) Maloko

HYDRODYNAMICS

2. FPSO: CFD & Validation (V. 1) Makai
5. HYDRODYNAMICS DF-I: Higher-Order Effects (V. 3) Ekahi
6. HYDRODYNAMICS DF-II: Forces 1 (V. 3) Leahi
14. HYDRODYNAMICS VIV-I: Vortex Shedding (V. 3) Ekahi
15. HYDRODYNAMICS DF-III: Forces 2 (V. 3) Leahi
24. HYDRODYNAMICS DF-IV: Dynamics 1 (V. 3) Leahi
33. HYDRODYNAMICS DF-V: Dynamics 2 (V. 3) Leahi
42. HYDRODYNAMICS DF-VI: Dynamics 3 (V. 3) Leahi

Waves and Spectra

3. HYDRODYNAMICS W-I: Waves 1 (V. 3) Maloko
12. HYDRODYNAMICS W-II: Waves 2 (V. 3) Maloko
21. HYDRODYNAMICS W-III: Waves 3 (V. 3) Maloko
30. HYDRODYNAMICS W-IV: Waves 4 (V. 3) Maloko
39. HYDRODYNAMICS W-V: NWT (V. 3) Maloko

Long Waves And Tsunamis

78. HYDRO LWT-I: Long Waves & Tsunamis I (V. 3) Leahi
86. HYDRO LWT-II: Long Waves & Tsunamis 2 (V. 3) Leahi
89. HYDRO LWT-III: Long Waves & Tsunamis 3 (V. 3) Leahi

COASTAL ENGINEERING

23. COASTAL ENG I: Breakwater Dynamics (V. 3) Ekahi
32. COASTAL ENG II: Harbor Facilities (V. 3) Ekahi
41. COASTAL ENG III: Waves (V. 3) Ekahi
50. COASTAL ENG IV: Structure and Foundation (V. 3) Ekahi
59. COASTAL ENG V: Floating Breakwater (V. 3) Ekahi
68. COASTAL ENG VI: Current/Long Period Motion (V. 3) Ekahi
77. COASTAL ENG VII: Waves Over Submerged Breakwater (V. 3) Ekahi
85. COASTAL ENG VIII: Sediment/Coastal Disaster (V. 3) Ekahi

MATERIALS, STRUCTURES, WELDING AND FATIGUE

43. MATERIALS/WELDING/FATIGUE I (V. 4) Ewa Ballroom
52. MATERIALS/WELDING/FATIGUE II (V. 4) Ewa Ballroom
61. MATERIALS/WELDING/FATIGUE III (V. 4) Ewa Ballroom
87. TUBULAR STRUCTURES (V. 4) Ewa Ballroom
COMPOSITES AND SMART STRUCTURES

10. COMPOSITES & SMART STRUCT I (V. 4)  Eha
19. COMPOSITES & SMART STRUCT II (V. 4)  Eha

ISOPE Symposium on High-Performance Materials in Offshore Industry (HMOI)

16. HMOI I : Steel Development (V. 4)  Ewa Ballroom
25. HMOI II : Offshore Materials (V. 4)  Ewa Ballroom
34. HMOI III : Pipeline Technology (V. 4)  Ewa Ballroom

MECHANICS, RELIABILITY, RISK AND SAFETY

7. MECHANICS: STRUCT & MEMBRANE (V. 4)  Ewa Ballroom
70. RELIABILITY, RISK & SAFETY I (V. 4)  Ewa Ballroom
79. RELIABILITY, RISK & SAFETY II (V. 4)  Ewa Ballroom

COLLISION, IMPACT AND SLAMMING

62. COLLISION, IMPACT & SLAMMING I (V. 4)  Elima
71. COLLISION, IMPACT & SLAMMING II (V. 4)  Elima
80. COLLISION, IMPACT & SLAMMING III (V. 4)  Elima

ADVANCED SHIP, PROPULSION AND OCEAN TECHNOLOGY

28. ADV SHIP, PROPULSION & OCEAN TECH II (V. 4)  Eha
37. ADV SHIP, PROPULSION & OCEAN TECH II (V. 4)  Eha

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<th>Conference Opening Address</th>
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<th>Annual Conference Banquet</th>
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Plenary Presentation I: Monday 13:20  Makai
Interaction Hydrodynamics of Two Bodies
Chwang, A T, Univ of Hong Kong, China

Plenary Presentation II: Monday 13:20  Ewa Ballroom
High Strength Composites for Infrastructure: Current and Future Directions of Research
Balaguru, P N, National Science Foundation, USA

Plenary Presentation III: Tuesday 13:20  Makai
Petro-Canada East Coast – Innovative Quality Management in Offshore Development and Operations
Ewida, A, Power, R, Ladilow, J, Hopkiss, R, Petro-Canada, Canada

Plenary Presentation IV: Wednesday 13:20  Maloko
Specification of Metocean Design Conditions: Recent Progress and Remaining Gaps
Olagnon, M, IFREMER, Quiniou-Ramas, V, TotalFinaElf, France

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