

## Welcome to ISOPE-2008 Conference

We greatly appreciate the excellent responses and help we have received from colleagues around the world in the successful organization of the 18th International Offshore and Polar Engineering Conference (ISOPE-2008), Vancouver, Canada, July 6–11, 2008. The Conference features **114 sessions of refereed papers and 5 plenary sessions from more than 48 countries**, including the symposia of the 1st ISOPE Frontier Energy Resources (FER-2008), the 6th ISOPE HPM, and the 2nd ISOPE SBD-2008.

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 **40 successful international meetings**:

- The 1st (1990) European Offshore Mechanics Symposium (ISOPE **EUROMS-90**) Trondheim, 1990; EUROMS-99 Moscow;
- The 1st (1990) Pacific/Asia Offshore Mechanics Symposium (ISOPE **PACOMS-90**) Seoul; PACOMS-94 Beijing; PACOMS-96 Pusan, PACOMS-2002 Daejeon, PACOMS-2004 Vladivostok, PACOMS-2006 Dalian;
- The **Annual ISOPE** conferences, starting in Edinburgh, 1991 were held in San Francisco, Singapore, Osaka, The Hague, Los Angeles, Honolulu, Montréal, Brest, Seattle, Stavanger, Kitakyushu, Honolulu, Toulon, Seoul, San Francisco and Lisbon. Since 1992, the annual ISOPE Conference has been held with the world's largest technical program of its kind with refereed papers;
- The 1st (1995) ISOPE Ocean Mining Symposium (**OMS-95**), Tsukuba, 1995, ISOPE OMS-97 Seoul, OMS-99 Goa, OMS-2001 Szczecin, OMS-2003 Tsukuba, OMS-2005 Changsha and OMS-2007 Lisbon;
- The 1st (1996) International Deep-Ocean Technology (**IDOT-96**) Symposium and Workshop, Los Angeles; and IDOT-2001 Stavanger.
- The ISOPE **HPM** Symposium: Honolulu 2003, Toulon 2004, Seoul 2005, San Francisco 2006 and Lisbon 2007 ;
- The ISOPE **ANGT** Symposium: Seoul 2005.
- The 1st ISOPE **SBD** Symposium : Lisbon 2007
- The ISOPE HPM : 1st **NANOS** Symposium: Lisbon 2007

On behalf of the Technical Program Committee, it is our pleasure to welcome participants from all over the world to the ISOPE-2008 Conference in Vancouver.

|                          |                            |                             |
|--------------------------|----------------------------|-----------------------------|
| Jin S Chung,<br>USA      | Michael Isaacson<br>Canada | A JNA Sarmiento<br>Portugal |
| Cuneyt Capanoglu,<br>USA | Ro-sik Park,<br>Korea      | Guy Herrouin,<br>France     |

Co-chairmen of the ISOPE-2008 Conference

**SUNDAY JULY 6**

09:00 ISOPE Board of Directors Meeting Finback  
12:00  
ISOPE-2008 Executive Committee Meeting Beluga  
EUROMS and PACOMS Executive Committees

15:00-18:00  
CONFERENCE REGISTRATION **Foyer, 3F**

17:00-18:00  
CONFERENCE RECEPTION **Pavilion Ballroom**

Tour Information Visit tour desk in ISOPE registration area:  
[www.isopec.org](http://www.isopec.org)  
Spouse Program E-mail-book in advance: Instruction in General  
Information on [www.isopec.org](http://www.isopec.org)  
All session rooms are located in both North Tower and South Tower.

**MONDAY July 7**

07:30 **On-Site Registration** starts at 07:30 (Monday only) Foyer, 3F  
07:30 **Session Chair/Co-chair Briefing** Port Hardy

09:00  
**Conference Opening** **Grand Ballroom**

09:00  
**1. OFFSHORE & ARCTIC REVIEW (V. 1)** Grand Ballroom

13:00  
**Plenary I (Strain-based Design: 2007 Review, V 2)** Jr Ballroom C

14:00  
**2. FPSO & COMPLIANT STRUCTURES I (V. 1)** Pavilion D  
**3. HYDRODYNAMICS I: CFD 1 - NWT (V. 3)** Jr Ballroom D  
**4. GEOTECH I: Wave & Slope Stability (V. 2)** Pavilion C  
**5. SBD I: Materials (V. 4)** Jr Ballroom C  
**6. FRONTIER ENERGY RESOURCES I: General (V. 1)** Pavilion A  
**7. COASTAL I: Wave-Structure Interactions (V. 3)** Pavilion B  
**8. UNDERWATER & DEEP SEAFLOOR I (V. 2)** Jr Ballroom A  
**9. OCEAN & WIND ENERGY I: Waves 1 (V. 1)** Jr Ballroom B  
**10. RELIABILITY & ADV SHIP I: Reliability 1 (V. 4)** Orca  
**11. PIPELINES & RISERS I: Deepwater Install... 1 (V. 2)** Finback

16:20  
**12. FPSO & COMPLIANT STRUCTURES II (V. 1)** Pavilion D  
**13. HYDRODYNAMICS II: CFD 2 - NWT (V. 3)** Jr Ballroom D  
**14. GEOTECH II: In-situ Test (V. 2)** Pavilion C  
**15. SBD II: Tensile Strain Capacity 1 (V. 4)** Jr Ballroom C  
**16. FRONTIER ENERGY RESOURCE II: Shale (V. 1)** Pavilion A  
**17. COASTAL II: Breakwaters 1(V. 3)** Pavilion B  
**18. UNDERWATER & DEEP SEAFLOOR II (V. 2)** Jr Ballroom A  
**19. RELIABILITY & ADV SHIP II: Reliability 2 (V. 4)** Orca  
**20. PIPELINES & RISERS II: Deepwater . 2 (V. 2)** Finback

18:30  
ISOPE Technical Committee Meetings Find from the bulletin board

**TUESDAY JULY 8**

|  |               |
|--|---------------|
| 07:30 Session Chair/Co-chair Briefing                  | Port Hardy    |
| <b>08:00</b>   |               |
| 21. FPSO & COMPLIANT STRUCTURES III (V. 1)             | Pavilion D    |
| 22. HYDRODYNAMICS III: CFD 3 (V. 3)                    | Jr Ballroom D |
| 23. GEOTECH III: Modeling & Simulation (V. 2)          | Pavilion C    |
| 24. SBD III: Tensile Strain Capacity 2 (V. 4)          | Jr Ballroom C |
| 25. FRONTIER ENERGY RESOURCES III: Oil ..(V. 1)        | Pavilion A    |
| 26. COASTAL III: Breakwaters 2 (V. 3)                  | Pavilion B    |
| 27. UNDERWATER & DEEP SEAFLOOR III (V. 2)              | Jr Ballroom A |
| 28. OCEAN & WIND ENERGY II: Waves 2 (V. 1)             | Jr Ballroom B |
| 29. RELIABILITY & ADV SHIP III: Slamming... (V. 4)     | Orca          |
| 30. PIPELINES & RISERS III: VIV 1 (V. 3)               | Finback       |
| <b>10:30</b>   |               |
| 31. FPSO & COMPLIANT STRUCTURES IV (V. 1)              | Pavilion D    |
| 32. HYDRODYNAMICS IV: CFD 4 (V. 3)                     | Jr Ballroom D |
| 33. GEOTECH IV: Consolid... & Embankmt (V. 2)          | Pavilion C    |
| 34. SBD IV: Compressive Strain Capacity... (V. 4)      | Jr Ballroom C |
| 35. FRONTIER ENERGY RESOURCES IV: Gas . (V. 1)         | Pavilion A    |
| 36. COASTAL IV: Breakwater 3 (V. 3)                    | Pavilion B    |
| 37. UNDERWATER & DEEP SEAFLOOR IV (V. 2)               | Jr Ballroom A |
| 38. OCEAN & WIND ENERGY III: Waves 3 (V. 1)            | Jr Ballroom B |
| 39. RELIABILITY & ADV SHIP IV: Earthq. & Tsuna (V. 4)  | Orca          |
| 40. PIPELINES & RISERS IV: VIV 2 (V. 3)                | Finback       |
| 12:10 Student Forum                                    | Port Abernie  |
| <b>13:00</b>   |               |
| PLENARY IV (Jin S Chung Award Lecture, IJOPE)          | Pavilion D    |
| <b>14:00</b>   |               |
| 41. FPSO & COMPLIANT STRUCTURES V (V. 1)               | Pavilion D    |
| 42. HYDRODYNAMICS V: CFD 5 (V. 3)                      | Jr Ballroom D |
| 43. GEOTECH V: Soil Properties (V. 2)                  | Pavilion C    |
| 44. SBD V: Testing & Evaluation (V. 4)                 | Jr Ballroom C |
| 45. FRONTIER ENERGY RESOURCE V: Ocean (V. 1)           | Pavilion A    |
| 46. HPM I: Adv Materials & Structures 1 (V. 4)         | Pavilion B    |
| 47. UNDERWATER & DEEP SEAFLOOR V (V. 2)                | Jr Ballroom A |
| 48. Ocean & Wind Energy IV: Waves 4 (V. 1)             | Jr Ballroom B |
| 49. RELIABILITY & ADV SHIP V: Advanced Ships 1 (V. 4)  | Orca          |
| 50. PIPELINES & RISERS V: SCR 1 (V. 2)                 | Finback       |
| <b>16:20</b>   |               |
| 51. FPSO & COMPLIANT STRUCTURES VI: ...(V. 1)          | Pavilion D    |
| 52. HYDRODYNAMICS VI: CFD 6 – Slosh (V. 3)             | Jr Ballroom D |
| 53. GEOTECH VI: Soil & Centrifuge (V. 2)               | Pavilion C    |
| 54. SBD VI: SBD in Service Environment (V. 4)          | Jr Ballroom C |
| 55. HPM II: Adv Materials & Structures 2 (V. 4)        | Pavilion A    |
| 56. Offshore East Coast of Canada (V. 1)               | Jr Ballroom A |
| 57. RELIABILITY & ADV SHIP VI: Advanced Ships 2 (V. 4) | Orca          |
| 58. PIPELINES & RISERS VI: SCR 2 (V. 2)                | Finback       |
| 15:30 Awards Committee Meeting                         | Blue Whale    |
| 16:30 Board of Editors Meeting                         | Blue Whale    |

SPOUSE PROGRAM: Reserve a seat by email to [meetings@isope.org](mailto:meetings@isope.org)

**WEDNESDAY JULY 9**

**07:30** Session Chair/Co-chair Briefing Port Hardy

**08:00**

|  |               |
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| <b>59. OFFSHORE SYSTEMS I (V. 1)</b>                         | Pavilion D    |
| <b>60. HYDRODYNAMICS VII: Measurements (V. 3)</b>            | Jr Ballroom D |
| <b>61. GEOTECH VII: Foundation &amp; Stability (V. 2)</b>    | Pavilion C    |
| <b>62. SBD VII: SBD Panel Discussion</b>                     | Jr Ballroom C |
| <b>63. HPM III: Fatigue &amp; Fracture (V. 4)</b>            | Pavilion A    |
| <b>64. COASTAL V: Beach Modeling 1 (V. 3)</b>                | Pavilion B    |
| <b>65. ARCTIC &amp; ICE I: Ice Environment (V. 1)</b>        | Jr Ballroom A |
| <b>66. OCEAN &amp; WIND ENERGY V: Winds 1 (V. 1)</b>         | Jr Ballroom B |
| <b>67. OFFSHORE SYSTEMS II: Earthquake &amp; Buoy (V. 1)</b> | Orca          |
| <b>68. PIPELINES &amp; RISERS VII: Riser Conce. (V. 2)</b>   | Finback       |

**10:30**

|  |               |
|--|---------------|
| <b>69. HYDRODYNAMICS XIII: Wave - Struct 1 (V. 3)</b>    | Pavilion D    |
| <b>70. HYDRODYNAMICS VIII: Nonlinear W 1 (V. 3)</b>      | Jr Ballroom D |
| <b>71. GEOTECH VIII: Piles &amp; Caissons (V. 2)</b>     | Pavilion C    |
| <b>72. HPM IV: Adv in Welding Technology (V. 4)</b>      | Pavilion A    |
| <b>73. COASTAL VI: Beach Modeling 2 (V. 3)</b>           | Pavilion B    |
| <b>74. ARCTIC &amp; ICE II: Ice Forecasting (V. 1)</b>   | Jr Ballroom A |
| <b>75. OCEAN &amp; WIND ENERGY VI: Tidal 1 (V. 1)</b>    | Jr Ballroom B |
| <b>76. OFFSHORE SYSTEMS III: Subsea (V. 1)</b>           | Orca          |
| <b>77. PIPELINES &amp; RISERS VIII: Integrity (V. 2)</b> | Finback       |

**12:00** ISOPE Board of Directors Meeting Chartroom

**13:00**

|  |               |
|--|---------------|
| <b>PLENARY III (Syn ...Between VLFS and Sea-ice, V. 1)</b> | Jr Ballroom D |
| <b>PLENARY IV (Ormen Lange Flowlines ..., V. 2)</b>        | Pavilion D    |

**14:00**

|  |               |
|--|---------------|
| <b>78. HYDRODYNAMICS XIV: Wave - Struct 2 (V. 3)</b>         | Pavilion D    |
| <b>79. HYDRODYNAMICS IX: Nonlinear Wav 2 (V. 3)</b>          | Jr Ballroom D |
| <b>80. GEOTECH IX: Anchor (V. 2)</b>                         | Pavilion C    |
| <b>81. ENVIRONMENT I: Water Quality (V. 1)</b>               | Jr Ballroom C |
| <b>82. HPM V: Shipbuilding Steels (V. 4)</b>                 | Pavilion A    |
| <b>83. COASTAL VII: Seabed &amp; Waves 1 (V. 3)</b>          | Pavilion B    |
| <b>84. ARCTIC &amp; ICE III: Navigation in Ice (V. 1)</b>    | Jr Ballroom A |
| <b>85. OCEAN &amp; WIND ENERGY VII: Tidal 2 (V. 1)</b>       | Jr Ballroom B |
| <b>86. OFFSHORE SYSTEMS IV: ... in Seismic Hazard (V. 1)</b> | Orca          |
| <b>87. PIPELINES &amp; RISERS IX: Pipeline 1 (V. 1)</b>      | Finback       |

Find Updates in Program on <http://www.isopec.org>

|                          |                              |
|--------------------------|------------------------------|
| Sunday - Thursday        |                              |
| Author Practice          | Individual session rooms     |
| On-site Registration     | Foyer, 3F                    |
| Conference Headquarters  | Parksville                   |
| Proceedings Pickup/Sales | Registration Desk, Foyer, 3F |
| Committee Meetings       | Port Abernethy               |

|  |                       |
|--|-----------------------|
| <b>19:00</b>   | <b>Grand Ballroom</b> |
| <b>Annual Conference Banquet</b>                             |                       |
| <b>Cultural Program, Best Paper, Scholarships and Awards</b> |                       |
| <i>Don't forget the banquet ticket.</i>                      |                       |

**THURSDAY JULY 10**

**07:30** Session Chair/Co-chair Briefing Port Hardy

**08:00**

|  |               |
|--|---------------|
| <b>88. HYDRODYNAMICS XV: MetOcean 1 (V. 3)</b>             | Pavilion D    |
| <b>89. HYDRODYNAMICS X: Viscous Flows (V. 3)</b>           | Jr Ballroom D |
| <b>90. GEOTECH X: Liquefaction &amp; Seismic (V. 2)</b>    | Pavilion C    |
| <b>91. ENVIRONMENT II: Tidal Effects (V. 1)</b>            | Jr Ballroom C |
| <b>92. HPM VI: Tubular Structures 1 (V. 4)</b>             | Pavilion A    |
| <b>93. COASTAL VIII: Estuary (V. 3)</b>                    | Pavilion B    |
| <b>94. ARCTIC &amp; ICE IV: Arctic Emerge Evacu (V. 1)</b> | Jr Ballroom A |
| <b>95. Reunion of Prof. Isaacson Class 1</b>               | Jr Ballroom B |
| <b>96. OFFSHORE SYSTEMS V: Jacket &amp; Loads (V. 1)</b>   | Orca          |
| <b>97. PIPELINES &amp; RISERS X: Pipeline 2 (V. 1)</b>     | Finback       |

**10:30**

|  |               |
|--|---------------|
| <b>98. HYDRODYNAMICS XVI: MetOcean 2–Tsun (V. 3)</b>     | Pavilion D    |
| <b>99. HYDRODYNAMICS XI: Dyn Stability (V. 3)</b>        | Jr Ballroom D |
| <b>100. GEOTECH XI: Soil Improvement 1(V. 2)</b>         | Pavilion C    |
| <b>101. ENVIRONMENT III: Monitoring (V. 1)</b>           | Jr Ballroom C |
| <b>102. HPM VII: Smart Structures (V. 4)</b>             | Pavilion A    |
| <b>103. COASTAL IX: Seabed &amp; Waves 2 (V. 3)</b>      | Pavilion B    |
| <b>104. ARCTIC &amp; ICE V: Ice Cover (V. 1)</b>         | Jr Ballroom A |
| <b>105. Reunion of Prof. Isaacson Class 2</b>            | Jr Ballroom B |
| <b>106. PIPELINES &amp; RISERS XI: Pipeline 3 (V. 1)</b> | Finback       |

**13:00**

Committee Meeting Blue Whale

**14:00**

|   |               |
|---|---------------|
| <b>107. HYDRODYNAMICS XVII: MetOcean 3 (V. 3)</b>                 | Pavilion D    |
| <b>108. HYDRODYNAMICS XII: Hydro Perfor (V. 3)</b>                | Jr Ballroom D |
| <b>109. GEOTECH XII: Soil Improvement 2 (V. 2)</b>                | Pavilion C    |
| <b>110. ENVIRONMENT IV: Characteristic (V. 1)</b>                 | Jr Ballroom C |
| <b>111. HPM VIII: NDE &amp; Life Prediction (V. 4)</b>            | Pavilion A    |
| <b>112. COASTAL X: Seabed &amp; Waves 3 (V. 3)</b>                | Pavilion B    |
| <b>113. ARCTIC &amp; ICE VI: Arctic Struct &amp; Icing (V. 1)</b> | Jr Ballroom A |
| <b>114. PIPELINES &amp; RISERS XII: Moor, Riser (V. 1)</b>        | Finback       |

**FRIDAY July 11**

**Vancouver Tours:** Click on [www.isopec.org](http://www.isopec.org)  
or [www.tourismvancouver.com](http://www.tourismvancouver.com)

Find further details on [www.isopec.org](http://www.isopec.org) .

## ISOPE-2008 Vancouver Conference

This 17th annual conference features **114** technical and opening sessions and **5** plenary sessions with top experts from industry, academia and government. About **550** papers after peer review will be presented and discussed by researchers, engineers and managers from more than **48** countries. The conference proceedings of peer-reviewed papers in PDF files will be available in a set of 4 volumes on CD-ROM (3,600 pp. est.) — paginated within each volume — during the conference and later for worldwide post-conference mail order from ISOPE: ISBN 978-1-880653-70-8).

### SESSION LIST BY TOPICS

#### OFFSHORE & ARCTIC INDUSTRY REVIEW

**1. OFFSHORE & ARCTIC REVIEW (V. 1)** G Ballroom

#### First (2008) ISOPE FRONTIER ENERGY RESOURCES Symposium

**6. FRONTIER ENERGY RESOURCE I: Gene...(V. 1)** Pavilion A  
**16. FRONTIER ENERGY RESOURCES II: 1 Shale (V. 1)** Pavilion A  
**25. FRONTIER ENERGY RESOURCES III: Sands.(V. 1)** Pavilion A  
**35. FRONTIER ENERGY RESOURCES IV: Gas .(V. 1)** Pavilion A  
**45. FRONTIER ENERGY RESOURCES V: Ocean (V. 1)** Pavilion A

#### OFFSHORE MECHANICS AND TECHNOLOGY

**2. FPSO & COMPLIANT STRUCTURES I (V. 1)** Pavilion D  
**12. FPSO & COMPLIANT STRUCTURES II (V. 1)** Pavilion D  
**21. FPSO & COMPLIANT STRUCTURES III (V. 1)** Pavilion D  
**31. FPSO & COMPLIANT STRUCTURES IV (V. 1)** Pavilion D  
**41. FPSO & COMPLIANT STRUCTURES V (V. 1)** Pavilion D  
**51. FPSO & COMPLIANT STRUCTURES VI: Deepwater & Arctic Risk & Standards (V. 1)** Pavilion D  
**56. Offshore East Coast of Canada (V. 1)** Jr Ballroom A  
**59. OFFSHORE SYSTEMS I (V. 1)** Pavilion D  
**67. OFFSHORE SYSTEMS II: Underwater Earthquake & Buoy (V. 1)** Orca  
**76. OFFSHORE SYSTEMS III: Subsea (V. 1)** Orca  
**86. OFFSHORE SYSTEMS IV: Technology Advances in Seismic Hazard Analysis (V. 1)** Orca  
**96. OFFSHORE SYSTEMS V: Jacket & Loads (V. 1)** Orca

#### OCEAN AND OFFSHORE WIND ENERGY

**9. OCEAN & WIND ENERGY I: Waves 1 (V. 1)** Jr Ballroom B  
**28. OCEAN & WIND ENERGY II: Waves 2 (V. 1)** Jr Ballroom B  
**38. OCEAN & WIND ENERGY III: Waves 3 (V. 1)** Jr Ballroom B  
**48. Ocean & Wind Energy IV: Waves 4 (V. 1)** Jr Ballroom B  
**66. OCEAN & WIND ENERGY V: Winds 1 (V. 1)** Jr Ballroom B  
**75. OCEAN & WIND ENERGY VI: Tidal 1 (V. 1)** Jr Ballroom B  
**85. OCEAN & WIND ENERGY VII: Tidal 2 (V. 1)** Jr Ballroom B

#### OCEAN AND ARCTIC ENVIRONMENT

**81. ENVIRONMENT I: Water Quality (V. 1)** Jr Ballroom C  
**91. ENVIRONMENT II: Tidal Effects (V. 1)** Jr Ballroom C  
**101. ENVIRONMENT III: Monitoring (V. 1)** Jr Ballroom C  
**110. ENVIRONMENT IV: Characteristic (V. 1)** Jr Ballroom C

#### GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING

|  |            |
|--|------------|
| 4. GEOTECH I: Wave & Slope Stability (V. 2)    | Pavilion C |
| 14. GEOTECH II: In-situ Test (V. 2)            | Pavilion C |
| 23. GEOTECH III: Modeling & Simulation (V. 2)  | Pavilion C |
| 33. GEOTECH IV: Consolid... & Embankmt (V. 2)  | Pavilion C |
| 43. GEOTECH V: Soil Properties (V. 2)          | Pavilion C |
| 53. GEOTECH VI: Soil & Centrifuge (V. 2)       | Pavilion C |
| 61. GEOTECH VII: Foundation & Stability (V. 2) | Pavilion C |
| 71. GEOTECH VIII: Piles & Caissons (V. 2)      | Pavilion C |
| 80. GEOTECH IX: Anchor (V. 2)                  | Pavilion C |
| 90. GEOTECH X: Liquefaction & Seismic (V. 2)   | Pavilion C |
| 100. GEOTECH XI: Soil Improvement 1(V. 2)      | Pavilion C |
| 109. GEOTECH XII: Soil Improvement 2 (V. 2)    | Pavilion C |

#### OFFSHORE AND ARCTIC PIPELINES, RISERS AND MOORING

|   |         |
|---|---------|
| 11. PIPELINES & RISERS I: Deepwater 1 (V. 2)    | Finback |
| 20. PIPELINES & RISERS II: Deepwater . 2 (V. 2) | Finback |
| 50. PIPELINES & RISERS V: SCR 1 (V. 2)          | Finback |
| 58. PIPELINES & RISERS VI: SCR 2 (V. 2)         | Finback |
| 68. PIPELINES & RISERS VII: Riser Conce. (V. 2) | Finback |
| 77. PIPELINES & RISERS VIII: Integrity (V. 2)   | Finback |
| 87. PIPELINES & RISERS IX: Pipeline 1 (V. 1)    | Finback |
| 97. PIPELINES & RISERS X: Pipeline 2 (V. 1)     | Finback |
| 106. PIPELINES & RISERS XI: Pipeline 3 (V. 1)   | Finback |
| 114. PIPELINES & RISERS XII: Moor, Riser (V. 1) | Finback |

#### DEEP OCEAN ROV, AUV AND COMMUNICATION

|   |               |
|---|---------------|
| 8. UNDERWATER & DEEP SEAFLOOR I (V. 2)    | Jr Ballroom A |
| 18. UNDERWATER & DEEP SEAFLOOR II (V. 2)  | Jr Ballroom A |
| 27. UNDERWATER & DEEP SEAFLOOR III (V. 2) | Jr Ballroom A |
| 37. UNDERWATER & DEEP SEAFLOOR IV (V. 2)  | Jr Ballroom A |
| 47. UNDERWATER & DEEP SEAFLOOR V (V. 2)   | Jr Ballroom A |

#### ICE SCIENCE AND ENGINEERING

|  |               |
|--|---------------|
| 65. ARCTIC & ICE I: Ice Environment (V. 1)         | Jr Ballroom A |
| 74. ARCTIC & ICE II: Ice Forecasting (V. 1)        | Jr Ballroom A |
| 84. ARCTIC & ICE III: Navigation in Ice (V. 1)     | Jr Ballroom A |
| 94. ARCTIC & ICE IV: Arctic Emerge Evacu (V. 1)    | Jr Ballroom A |
| 104. ARCTIC & ICE V: Ice Cover (V. 1)              | Jr Ballroom A |
| 113. ARCTIC & ICE VI: Arctic Struct & Icing (V. 1) | Jr Ballroom A |

#### HYDRODYNAMICS

|  |               |
|--|---------------|
| 3. HYDRODYNAMICS I: CFD 1 - NWT (V. 3)         | Jr Ballroom D |
| 13. HYDRODYNAMICS II: CFD 2 - NWT (V. 3)       | Jr Ballroom D |
| 22. HYDRODYNAMICS III: CFD 3 (V. 3)            | Jr Ballroom D |
| 32. HYDRODYNAMICS IV: CFD 4 (V. 3)             | Jr Ballroom D |
| 42. HYDRODYNAMICS V: CFD 5 (V. 3)              | Jr Ballroom D |
| 52. HYDRODYNAMICS VI: CFD 6 - SLOSH (V. 3)     | Jr Ballroom D |
| 60. HYDRODYNAMICS VII: Measurements (V. 3)     | Jr Ballroom D |
| 70. HYDRODYNAMICS VIII: Nonlinear W 1 (V. 3)   | Jr Ballroom D |
| 79. HYDRODYNAMICS IX: Nonlinear Wav 2 (V. 3)   | Jr Ballroom D |
| 89. HYDRODYNAMICS X: Viscous Flows (V. 3)      | Jr Ballroom D |
| 99. HYDRODYNAMICS XI: Dyn Stability (V. 3)     | Jr Ballroom D |
| 108. HYDRODYNAMICS XII: Hydro Perfor (V. 3)    | Jr Ballroom D |
| 69. HYDRODYNAMICS XIII: Wave - Struct 1 (V. 3) | Pavilion D    |
| 78. HYDRODYNAMICS XIV: Wave - Struct 2 (V. 3)  | Pavilion D    |

#### METOCEAN

|   |            |
|---|------------|
| 88. HYDRODYNAMICS XV: MetOcean 1 (V. 3)       | Pavilion D |
| 98. HYDRODYNAMICS XVI: MetOcean 2-Tsun (V. 3) | Pavilion D |
| 107. HYDRODYNAMICS XVII: MetOcean 3 (V. 3)    | Pavilion D |

### COASTAL ENGINEERING

|  |            |
|--|------------|
| 7. COASTAL I: Wave-Structure Interactions (V. 3) | Pavilion B |
| 17. COASTAL II: Breakwaters 1(V. 3)              | Pavilion B |
| 26. COASTAL III: Breakwaters 2 (V. 3)            | Pavilion B |
| 36. COASTAL IV: Breakwater 3 (V. 3)              | Pavilion B |
| 64. COASTAL V: Beach Modeling 1 (V. 3)           | Pavilion B |
| 73. COASTAL VI: Beach Modeling 2 (V. 3)          | Pavilion B |
| 83. COASTAL VII: Seabed & Waves 1 (V. 3)         | Pavilion B |
| 93. COASTAL VIII: Estuary (V. 3)                 | Pavilion B |
| 103. COASTAL IX: Seabed & Waves 2 (V. 3)         | Pavilion B |
| 112. COASTAL X: Seabed & Waves 3 (V. 3)          | Pavilion B |

### FLOW-INDUCED VIBRATIONS

|  |         |
|--|---------|
| 30. PIPELINES & RISERS III: VIV 1 (V. 3) | Finback |
| 40. PIPELINES & RISERS IV: VIV 2 (V. 3)  | Finback |

### REUNION OF PROF. ISAACSON CLASS

|  |               |
|--|---------------|
| 95. Reunion of Prof. Isaacson Class 1  | Jr Ballroom B |
| 105. Reunion of Prof. Isaacson Class 2 | Jr Ballroom B |

### The 6th ISOPE HIGH-PERFORMANCE MATERIALS SYMPOSIUM — HPM

|   |            |
|---|------------|
| 46. HPM I: Adv Materials & Structures 1 (V. 4)  | Pavilion B |
| 55. HPM II: Adv Materials & Structures 2 (V. 4) | Pavilion A |
| 63. HPM III: Fatigue & Fracture (V. 4)          | Pavilion A |
| 72. HPM IV: Adv in Welding Technology (V. 4)    | Pavilion A |
| 82. HPM V: Shipbuilding Steels (V. 4)           | Pavilion A |
| 92. HPM VI: Tubular Structures 1 (V. 4)         | Pavilion A |
| 102. HPM VII: Smart Structures (V. 4)           | Pavilion A |
| 111. HPM VIII: NDE & Life Prediction (V. 4)     | Pavilion A |

### The 2ND ISOPE STRAIN-BASED DESIGN SYMPOSIUM

|   |               |
|---|---------------|
| 5. SBD I: Materials (V. 4)                        | Jr Ballroom C |
| 15. SBD II: Tensile Strain Capacity 1 (V. 4)      | Jr Ballroom C |
| 24. SBD III: Tensile Strain Capacity 2 (V. 4)     | Jr Ballroom C |
| 34. SBD IV: Compressive Strain Capacity... (V. 4) | Jr Ballroom C |
| 44. SBD V: Testing & Evaluation (V. 4)            | Jr Ballroom C |
| 54. SBD VI: SBD in Service Environment (V. 4)     | Jr Ballroom C |
| 62. SBD VII: SBD Panel Discussion                 | Jr Ballroom C |

### COMPOSITES & SMART STRUCTURES

|                                       |            |
|---------------------------------------|------------|
| 102. HPM VII: Smart Structures (V. 4) | Pavilion A |
|---------------------------------------|------------|

### RELIABILITY & ADVANCED SHIP TECHNOLOGY

|  |      |
|--|------|
| 10. RELIABILITY & ADV SHIP I: Reliability 1 (V. 4)     | Orca |
| 19. RELIABILITY & ADV SHIP II: Reliability 2 (V. 4)    | Orca |
| 29. RELIABILITY & ADV SHIP III: Slamming... (V. 4)     | Orca |
| 39. RELIABILITY & ADV SHIP IV: Earthq. & Tsuna (V. 4)  | Orca |
| 49. RELIABILITY & ADV SHIP V: Advanced Ships 1 (V. 4)  | Orca |
| 57. RELIABILITY & ADV SHIP VI: Advanced Ships 2 (V. 4) | Orca |

### Conference Reception

17:00-18:00 Sunday July 6 North Tower Foyer, 3F

### Conference Opening Address

09:00 Monday July 2 Grand Ballroom

|                                  |                       |  |
|----------------------------------|-----------------------|--|
| <b>Annual Conference Banquet</b> |                       |  |
| 19:00 Wednesday July 9           | <b>Grand Ballroom</b> |  |

**MONDAY**

|  |        |       |               |
|--|--------|-------|---------------|
| <b>Plenary Presentation I (V.2)</b>                                |        |       |               |
| <b>Monday</b>  | July 7 | 13:00 | Jr Ballroom C |
| <b>Strain-based Design: 2007 Review</b>                            |        |       |               |
| Lillig, D B, ExxonMobil Development Co, USA                        |        |       |               |
| Introduction by Wang, Y-Y, Center for Reliable Energy Systems, USA |        |       |               |

**TUESDAY**

|  |        |       |                |
|--|--------|-------|----------------|
| <b>Student Forum (All Student Participants Are Invited)</b>  |        |       |                |
| Tuesday  | July 8 | 12:10 | Port Abernethy |
| E-mail by <b>June 1</b> your intention of attending this meeting to <a href="mailto:meetings@isope.org">meetings@isope.org</a> . |        |       |                |
| Advisors: Dr. Stefan Herion, Germany, Dr. Sung Tai Kee, Korea; and Prof. Harovel G. Wheat, USA                                   |        |       |                |

|  |        |       |            |
|--|--------|-------|------------|
| <b>Plenary Presentation II (IJOPE)</b>                       |        |       |            |
| <b>Tuesday</b>   | July 8 | 13:00 | Pavilion D |
| <b>2008 Jin S Chung Award Lecture:</b>                       |        |       |            |
| <b>Nonlinear Response of Offshore Structure to High Seas</b> |        |       |            |
| Kim, C H, Texas A&M Univ, USA                                |        |       |            |
| Introduction by Koterayama, W, Kyushu University, Japan      |        |       |            |

**WEDNESDAY**

|  |        |       |               |
|--|--------|-------|---------------|
| <b>Plenary Presentation III (V.1)</b>                              |        |       |               |
| <b>Wednesday</b>   | July 9 | 13:00 | Jr Ballroom D |
| <b>Synergies between VLFS Hydroelasticity and Sea-ice Research</b> |        |       |               |
| Squire, V A, Univ of Otago, New Zealand                            |        |       |               |
| Introduction by Jin S Chung, ISOPE, USA                            |        |       |               |

|  |        |       |            |
|--|--------|-------|------------|
| <b>Plenary Presentation IV (V.2)</b>   |        |       |            |
| <b>Wednesday</b>   | July 9 | 13:00 | Pavilion D |
| <b>Start-up and Operation of the Ormen Lange Flowlines</b>   |        |       |            |
| Burns, C, Lorimer, S E, Pradhan, V, Norske Shell, Norway; Henkes, R, Shall Global Solutions, The Netherlands; Hartenhof, M, Norske Shell; Vanvik, T, SPT Group, Norway |        |       |            |
| Introduction by Paulsen, G, Reinertsen A/S, Norway   |        |       |            |

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