

Welcome to ISOPE-2000

We greatly appreciate the excellent responses and help we have received from colleagues around the world in the successful organization of the 10th International Offshore and Polar Engineering Conference (ISOPE-2000 Seattle). The Conference features **92 sessions of refereed papers** and **5 plenary sessions** from 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 18 successful international meetings:

- The 1st (1990) European Offshore Mechanics Symposium (ISOPE EUROMS-90) in Trondheim, 1990, EUROMS-99 Moscow;
- The 1st (1990) Pacific/Asia Offshore Mechanics Symposium (ISOPE PACOMS-90) Seoul, PACOMS-94 (SOSC-94) Beijing, and PACOMS-96 Pusan;
- The Annual ISOPE conferences, starting in Edinburgh, 1991 were held in San Francisco, Singapore, Osaka, The Hague, Los Angeles, Honolulu, Montréal and Brest. 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 and ISOPE OMS-99 Goa;
- The 1st (1996) International Deep-Ocean Technology (IDOT-96) Symposium and Workshop, Los Angeles.

On behalf of the Technical Program Committee, it is our pleasure to welcome participants from all over the world to the ISOPE-2000 Conference in Seattle.

Jin Chung, USA
Michel Olagnon, France

Bob Frederking, Canada
Yukio Ueda, Japan

SUNDAY MAY 28

09:00 ISOPE Board of Directors Meeting	Boardroom (4F)
11:30 ISOPE-99 Executive Committee Meeting EUROMS and PACOMS Executive Committees	Boardroom (4F)
15:00-18:00 CONFERENCE REGISTRATION	Prefunction Area (2F)
18:00-19:00 ISOPE RECEPTION	Cirrus (35F)
For Tour Information Spouse Program (http://www.isope.org)	(see ISOPE bulletin board in Registration Area) see Bulletin Board

MONDAY MAY 29

07:30 On-Site Registration starts at 07:30 (Monday only)	
Author Briefing	Metropolitan Ballroom (4F)
08:00 Conference Opening	Grand Ballroom
1. TECHNOLOGY REVIEW (V. 1)	Grand Ballroom
10:45	
2. METOCEAN I: Waves 1 (V. 3)	West Ballroom A
3. MOB AND MEGA-FLOAT I (V. 1)	West Ballroom B
4. EARTHQUAKE ENGINEERING (V. 4)	Douglas
5. GEOTECH I: Foundation 1 (V. 2)	Aspen
6. ADV SHIP & OCEAN TECH I (V. 4)	Madrona
7. RISERS & MOORING I (V. 2)	Cedar
8. COMPOSITES & SMART STRUCT I (V. 4)	Douglas
9. OCEAN & RENEWABLE ENERGY I (V. 1)	Juniper
10. HYDRODYNAMICS: Forces 1 (V. 3)	East Ballroom B
13:20	
Plenary Presentation I: JOIA: Ice (V. 1)	
Plenary Presentation II: NWT	
14:00	
11. METOCEAN II: Waves 2 (V. 3)	West Ballroom A
12. MOB AND MEGA-FLOAT II (V. 1)	West Ballroom B
13. JOIA: Ice Research I (V. 1)	East Ballroom A
14. GEOTECH II: Foundation 2 (V. 2)	Aspen
15. ADV SHIP & OCEAN TECH II (V. 4)	Madrona
16. RISERS & MOORING II (V. 2)	Cedar
17. COMPOSITES & SMART STRUCT II (V. 4)	Douglas
18. OCEAN & RENEWABLE ENERGY II (V. 1)	Juniper
19. HYDRODYNAMICS: Forces 2 (V. 3)	East Ballroom B
17:00	
ISOPE Technical Committee Meetings	Metropolitan Ballroom (4F)

TUESDAY May 30

07:30 Author Briefing Metropolitan Ballroom (4F)

08:00

20. METOCEAN III: Waves 3 (V. 3)	West Ballroom A
21. OFFSHORE I: Systems & Design 1 (V. 1)	West Ballroom B
22. JOIA: Ice Research II (V. 1)	East Ballroom A
23. GEOTECH III: Foundation 3 (V. 2)	Aspen
24. ADV SHIP & OCEAN TECH III (V. 4)	Madrona
25. RISERS & MOORING III (V. 2)	Cedar
26. COMPOSITES & SMART STRUCT III (V. 4)	Douglas
27. OCEAN & RENEWABLE ENERGY III (V. 1)	Juniper
28. HYDRODYNAMICS: Forces 3 (V. 3)	East Ballroom B

10:45

29. METOCEAN IV: Sea State (V. 3)	West Ballroom A
30. OFFSHORE II: Systems & Design 2 (V. 1)	West Ballroom B
31. POLAR I: Ice Forces 1 (V. 1)	East Ballroom A
32. GEOTECH IV: Foundation 4 (V. 2)	Aspen
33. COASTAL ENG I: Breakwater Dyn (V. 3)	Madrona
34. RISERS & MOORING IV (V. 2)	Cedar
35. RELIABILITY, RISK & SAFETY I (V. 4)	Douglas
36. OCEAN & RENEWABLE ENERGY IV (V. 1)	Juniper
37. ENVIRONMENT (V. 1)	East Ballroom B

13:30

Plenary Presentation III: Subsea Technology (V. 1)
Plenary Presentation IV: Taiwan Earthquake (V. 2)

14:00

38. GEOTECH V: Soil Properties (V. 2)	Aspen
39. COASTAL ENGI II: Hydrodynamics (V. 3)	Madrona

CONFERENCE TOUR (Museum of Flight at Boeing Company):

Bus Departure at 14:00 (Make your reservation with the advance conference registration form.)

17:00 Board of Editors Meeting	Boardroom (4F)
19:00 ISOPE-2000/ISOPE-2001 Seattle TPC Meeting	See Bulletin Board

Sunday - Thursday	
Audio/Visual Practice	Metropolitan Ballroom (4F)
On-site Registration	ISOPE Registration Desk(2F)
Conference Headquarters	Poplar (2F)
Proceedings Pickup/Sales	ISOPE Registration Desk(2F)

WEDNESDAY May 31

07:30 Author Briefing Metropolitan Ballroom (4F)

08:00

40. METOCEAN V: Climatology 1 (V. 3)	West Ballroom A
41. OFFSHORE III: Structures & Design 1 (V. 1)	West Ballroom B
42. POLAR II: Ice Forces 2 (V. 1)	East Ballroom A
43. GEOTECH VI: Soil Treatment (V. 2)	Aspen
44. COASTAL ENG III: Dyn in Harbor (V. 3)	Madrona
45. PIPELINES I (V. 2)	Cedar
46. RELIABILITY, RISK & SAFETY II (V. 4)	Douglas
47. OCEAN & RENEWABLE ENERGY V (V. 1)	Juniper
48. HYDRODYNAMICS: Vortex & Vibr 1 (V. 3)	East Ballroom B

10:45

49. METOCEAN VI: Climatology 2 (V. 3)	West Ballroom A
50. OFFSHORE IV: Structures & Design 2 (V. 1)	West Ballroom B
51. POLAR III: Ice Mechanics 1 (V. 1)	East Ballroom A
52. GEOTECH VII: Soil Improvement 1 (V. 2)	Aspen
53. COASTAL ENG IV: Poro Breakwaters (V. 3)	Madrona
54. PIPELINES II (V. 2)	Cedar
55. RELIABILITY, RISK & SAFETY III (V. 4)	Douglas
56. MATERIALS/WELDING/FATIGUE I (V. 4)	Juniper
57. HYDRODYNAMICS: Vortex & Vibr 2 (V. 3)	East Ballroom B

13:20

Plenary Presentation V: Tubular Joints (V. 4)

14:00

58. HYDRODYNAMICS: NWT 1 (V. 3)	West Ballroom A
59. OFFSHORE V: Structures & Design 3 (V. 1)	West Ballroom B
60. POLAR IV: Ice Mechanics 2 (V. 1)	East Ballroom A
61. GEOTECH VIII: Soil Improvement 2 (V. 2)	Aspen
62. COASTAL ENG V: Shallow-Water (V. 3)	Madrona
63. PIPELINES III (V. 2)	Cedar
64. RELIABILITY, RISK & SAFETY IV (V. 4)	Douglas
65. MATERIALS/WELDING/FATIGUE II (V. 4)	Juniper
66. HYDRODYNAMICS: Dyn Responses 1 (V. 3)	East Ballroom B

Find Update in Program on Website:
<http://www. www.iso pe.org>.

19:00	Grand Ballroom (2F):
Annual Conference Banquet Program and Best Paper and Award Presentation	

Author Briefing	Metropolitan Ballroom (4F)
Audio/Visual practice	Metropolitan Ballroom (4F)

THURSDAY JUNE 1

07:30 Author Briefing Metropolitan Ballroom (4F)

08:00

67. HYDRODYNAMICS: NWT 2 (V. 3)	West Ballroom A
68. OFFSHORE VI: FPSO/TLP/SPAR 1 (V. 1)	West Ballroom B
69. POLAR V: Sakhalin (V. 1)	East Ballroom A
70. GEOTECH IX: Earthquakes & Dyn (V. 2)	Aspen
71. TUBULAR STRUCTURES I (V. 4)	Madrona
72. PIPELINES IV (V. 2)	Cedar
73. COLLISION/IMPACT/DAMAGE (V. 4)	Douglas
74. MAT'LS/WELDING/FATIGUE III (V. 4)	Juniper
75. UNDERWATER VEH & CONTROL (V. 2)	East Ballroom B

10:45

76. HYDRODYNAMICS: NWT 3 (V. 3)	West Ballroom A
77. OFFSHORE VII: FPSO/TLP/SPAR 2 (V. 1)	West Ballroom B
78. POLAR VI: Remote Sensing (V. 1)	East Ballroom A
79. GEOTECH X: Soil Dynamics (V. 2)	Aspen
80. TUBULAR STRUCTURES II (V. 4)	Madrona
81. PIPELINES V (V. 2)	Cedar
82. MECHANICS & ANALYSIS (V. 4)	Douglas
83. DEEP-OCEAN MINING (V. 1)	Juniper
84. HYDRODYNAMICS: Dyn Responses 2 (V. 3)	East Ballroom B

13:00

OMWG Meeting Boardroom (4F)

85. THE 3RD NWT WORKSHOP	West Ballroom A
86. OFFSHORE VIII: Petrobras FPSOs (V. 1)	West Ballroom B
87. POLAR VII: Technology (V. 1)	East Ballroom A
88. GEOTECH XI: Soil Mechanics (V. 2)	Aspen
89. TUBULAR STRUCTURES III (V. 4)	Madrona
90. PIPELINES VI: Design Thru Analysis (V. 2)	Cedar
91. REMOTE SENSING & INT WAVES (V. 3)	Douglas
92. HYDRODYNAMICS: Dyn Responses 3 (V. 3)	East Ballroom B

FRIDAY JUNE 2

Boeing 747/767/777 Assembly Plant Tour

Visit www.isopec.org for the booking information. Advance reservation with payment will be required.

Other Optional Tours

Find the places to visit for tour in this program and on ISOPE-2000 Web site and visit the conference registration desk, and check the ISOPE bulletin board as you arrive.

ISOPE-2000 Seattle

The Conference features **92** technical and opening sessions and **5** plenary sessions with top experts from industry, academia and government. About **450** refereed papers after peer review will be presented and discussed by researchers, engineers and managers from more than 45 countries. The refereed papers only will be printed in the Conference Proceedings.

The Conference Proceedings will be available in a (hard copy *and* CD-Rom) set of 4 volumes (2,900 pp. est.) during the conference and later for worldwide post-conference mail order from ISOPE.

SESSION LIST BY TOPICS

OFFSHORE TECHNOLOGY & SYSTEMS

1. TECHNOLOGY REVIEW (V. 1)	Grand Ballroom
3. MOB AND MEGA-FLOAT I (V. 1)	West Ballroom B
12. MOB AND MEGA-FLOAT II (V. 1)	West Ballroom B
21. OFFSHORE I: Systems & Design 1 (V. 1)	West Ballroom B
30. OFFSHORE II: Systems & Design 2 (V. 1)	West Ballroom B
41. OFFSHORE III: Structures & Design 1 (V. 1)	West Ballroom B
50. OFFSHORE IV: Structures & Design 2 (V. 1)	West Ballroom B
59. OFFSHORE V: Structures & Design 3 (V. 1)	West Ballroom B
68. OFFSHORE VI: FPSO/TLP/SPAR 1 (V. 1)	West Ballroom B
77. OFFSHORE VII: FPSO/TLP/SPAR 2 (V. 1)	West Ballroom B
86. OFFSHORE VIII: Petrobras FPSOs (V. 1)	West Ballroom B

ENERGY & RESOURCES

9. OCEAN & RENEWABLE ENERGY I (V. 1)	Juniper
18. OCEAN & RENEWABLE ENERGY II (V. 1)	Juniper
27. OCEAN & RENEWABLE ENERGY III (V. 1)	Juniper
36. OCEAN & RENEWABLE ENERGY IV (V. 1)	Juniper
47. OCEAN & RENEWABLE ENERGY V (V. 1)	Juniper
83. DEEP-OCEAN MINING (V. 1)	Juniper

REMOTE SENSING & ENVIRONMENT

37. ENVIRONMENT (V. 1)	East Ballroom B
91. REMOTE SENSING & INT WAVES (V. 3)	Douglas

GEOTECHNICAL ENGINEERING

5. GEOTECH I: Foundation 1 (V. 2)	Aspen
14. GEOTECH II: Foundation 2 (V. 2)	Aspen
23. GEOTECH III: Foundation 3 (V. 2)	Aspen
32. GEOTECH IV: Foundation 4 (V. 2)	Aspen
38. GEOTECH V: Soil Properties (V. 2)	Aspen
43. GEOTECH VI: Soil Treatment (V. 2)	Aspen
52. GEOTECH VII: Soil Improvement 1 (V. 2)	Aspen
61. GEOTECH VIII: Soil Improvement 2 (V. 2)	Aspen
70. GEOTECH IX: Earthquakes and Dyn (V. 2)	Aspen
79. GEOTECH X: Soil Dynamics (V. 2)	Aspen
88. GEOTECH XI: Soil Mechanics (V. 2)	Aspen

PIPELINES/RISERS/CABLE MECHANICS

7. RISERS & MOORING I (V. 2)	Cedar
16. RISERS & MOORING II (V. 2)	Cedar
25. RISERS & MOORING III (V. 2)	Cedar
34. RISERS & MOORING IV (V. 2)	Cedar
45. PIPELINES I (V. 2)	Cedar
54. PIPELINES II (V. 2)	Cedar
63. PIPELINES III (V. 2)	Cedar
72. PIPELINES IV (V. 2)	Cedar
81. PIPELINES V (V. 2)	Cedar
90. PIPELINES VI: Design Thru Analysis (V. 2)	Cedar

UNDERWATER VEHICLES

75. UNDERWATER VEH & CONTROL (V. 2)	East Ballroom B
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POLAR & ICE ENGINEERING

13. JOIA: Ice Research I (V. 1)	East Ballroom A
22. JOIA: Ice Research II (V. 1)	East Ballroom A
31. POLAR I: Ice Forces 1 (V. 1)	East Ballroom A
42. POLAR II: Ice Forces 2 (V. 1)	East Ballroom A
51. POLAR III: Ice Mechanics 1 (V. 1)	East Ballroom A
60. POLAR IV: Ice Mechanics 2 (V. 1)	East Ballroom A
69. POLAR V: Sakhalin (V. 1)	East Ballroom A
78. POLAR VI: Remote Sensing (V. 1)	East Ballroom A
87. POLAR VII: Technology (V. 1)	East Ballroom A

METOCEAN & INTERNAL WAVES

2. METOCEAN I: Waves 1 (V. 3)	West Ballroom A
11. METOCEAN II: Waves 2 (V. 3)	West Ballroom A
20. METOCEAN III: Waves 3 (V. 3)	West Ballroom A
29. METOCEAN IV: Sea State (V. 3)	West Ballroom A
40. METOCEAN V: Climatology 1 (V. 3)	West Ballroom A
49. METOCEAN VI: Climatology 2 (V. 3)	West Ballroom A

HYDRODYNAMICS & NWT

58. HYDRODYNAMICS: NWT 1 (V. 3)	West Ballroom A
67. HYDRODYNAMICS: NWT 2 (V. 3)	West Ballroom A
76. HYDRODYNAMICS: NWT 3 (V. 3)	West Ballroom A
85. THE 3 RD NWT WORKSHOP	West Ballroom A
10. HYDRODYNAMICS: Forces 1 (V. 3)	East Ballroom B
19. HYDRODYNAMICS: Forces 2 (V. 3)	East Ballroom B
28. HYDRODYNAMICS: Forces 3 (V. 3)	East Ballroom B
48. HYDRODYNAMICS: Vortex & Vibr 1 (V. 3)	East Ballroom B
57. HYDRODYNAMICS: Vortex & Vibr 2 (V. 3)	East Ballroom B
66. HYDRODYNAMICS: Dyn Responses 1 (V. 3)	East Ballroom B
84. HYDRODYNAMICS: Dyn Responses 2 (V. 3)	East Ballroom B
92. HYDRODYNAMICS: Dyn Responses 3 (V. 3)	East Ballroom B

COASTAL ENGINEERING

33. COASTAL ENG I: Breakwater Dyn (V. 3)	Madrona
39. COASTAL ENG II: Hydrodynamics (V. 3)	Madrona
44. COASTAL ENG III: Dyn in Harbor (V. 3)	Madrona
53. COASTAL ENG IV: Poro Breakwaters (V. 3)	Madrona
62. COASTAL ENG V: Shallow-Water (V. 3)	Madrona

TUBULAR STRUCTURES

71. TUBULAR STRUCT I (V. 4)	Madrona
80. TUBULAR STRUCT II (V. 4)	Madrona
89. TUBULAR STRUCT III (V. 4)	Madrona

COMPOSITES AND SMART STRUCTURES

8. COMPOSITES & SMART STRUCT I (V. 4)	Douglas
17. COMPOSITES & SMART STRUCT II (V. 4)	Douglas
26. COMPOSITES & SMART STRUCT III (V. 4)	Douglas

MATERIALS/WELDING/FATIGUE I

56. MATERIALS/WELDING/FATIGUE I (V. 4)	Juniper
65. MATERIALS/WELDING/FATIGUE II (V. 4)	Juniper
74. MAT'LS/WELDING/FATIGUE III (V. 4)	Juniper

RELIABILITY, COLLISION, MECHANICS & EARTHQUAKE

4. EARTHQUAKE ENGINEERING (V. 4)	Douglas
82. MECHANICS & ANALYSIS (V. 4)	Douglas
73. COLLISION/IMPACT/DAMAGE (V. 4)	Douglas
35. RELIABILITY, RISK & SAFETY I (V. 4)	Douglas
46. RELIABILITY, RISK & SAFETY II (V. 4)	Douglas
55. RELIABILITY, RISK & SAFETY III (V. 4)	Douglas
64. RELIABILITY, RISK & SAFETY IV (V. 4)	Douglas

ADVANCED SHIP & OCEAN TECHNOLOGY

6. ADV SHIP & OCEAN TECH I (V. 4)	Madrona
15. ADV SHIP & OCEAN TECH II (V. 4)	Madrona
24. ADV SHIP & OCEAN TECH III (V. 4)	Madrona

ISOPE Reception 18:00-19:00 SUNDAY May 28	Cirrus (35F)
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Conference Opening 08:00 MONDAY May 29	Grand Ballroom (2F)
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Annual Conference Banquet 19:00 WEDNESDAY May 31	Grand Ballroom (2F)
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ISOPE-2000 Technical Program Committee (TPC)

Prof. A. Abel, Univ. of Sydney, Sydney, Australia
Dr. Y. Bai, ABB Offshore Systems, Forus, Norway
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 Dr. S.S. Lin, US Naval Facilities Engineering Service Center, Port Hueneme, CA, USA
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 Dr. J.C. Price, Brown & Root Energy, Houston, TX, USA
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 Dr. V. Rigaud, Ifremer, La Seyne sur Mer, France
 Prof. J. Roesset, Texas A&M Univ., College Station, TX, USA
 Prof. H. Saeki, Hokkaido Univ., Sapporo, Japan
 Mr. V.Y. Salpekar, Engineers India Ltd., New Delhi, India
 Dr. A.J.N.A. Sarmento, Lisbon Technical Univ., Lisbon, Portugal
 Dr. M. Sayed, National Research Council, Ottawa, Canada
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 Dr. R. Song, Halliburton as, Stavanger, Norway
 Prof. S.H. Sphaier, COPPE/UFRJ, Rio de Janeiro, Brazil
 Prof. V.A. Squire, Univ. of Otago, Dunedin, New Zealand
 Dr. T. Sriskandarajah, Granherne Ltd., Surrey, UK
 Prof. Y. Suga, Keio Univ., Yokohama, Japan
 Dr. B.M. Sumer, Technical Univ. of Denmark, Lyngby, Denmark
 Prof. Y. Tanaka, Kobe Univ., Kobe, Japan
 Dr. K. Tanizawa, Ship Research Institute, Tokyo, Japan
 Dr. M. Teng, Univ. of Hawaii, Honolulu, HI, USA
 Prof. Y. Tomita, Osaka Univ., Osaka, JAPAN
 Prof. M.S. Triantafyllou, M.I.T., Cambridge, MA, USA
 Dr. A. S. Tsvetsinsky, Eco-System, Moscow, Russia
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Plenary Presentations

Plenary Presentation I (V.2)			
Monday	May 29	13:20	Cedar
Ice Loads Acting on Marine Structures: Overview of the JOIA Project			
Saeki, H, Hokkaido University, Japan			
Plenary Presentation II			
Monday	May 29	13:20	West Ballroom A

Numerical Wave Tanks: State of the Art and Axes of Development [Oral Presentation Only]
Clément, A H, Ecole Centrale de Nantes, France

Plenary Presentation III (V. 1)
Tuesday May 30 13:20 West Ballroom B

Research and Development Challenges in Subsea Technology
Aleksandersen, J, Plugging Specialists International; Eriksseon, C B, Smedvig ASA, Norway

Plenary Presentation IV (V. 1)
Tuesday May 30 13:20 Aspen

The Strongest Chi-Chi Earthquake of the Century in Taiwan
Chin, Y P, National Cheng Kung Univ, Taiwan, China

Plenary Presentation V (V. 4)
Wednesday May 31 13:20 Juniper

How to Improve the Conceptual Design of Tubular Joints
Wardenier, J, Delft Univ of Technology, The Netherlands

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