

May 26-31

KitaKyushu, Japan

www.isopec.org

The Twelfth (2002) International Offshore and Polar Engineering Conference

ISOPE-2002
KitaKyushu International Convention
Center
Kitakyushu, Japan, May 26-31, 2002

Technical Program

Refereed papers from 45 countries in 92 sessions and
3 plenary sessions

Author Index and Updates on www.isopec.org
Forms (Inside) for Registration, Hotel, Publication and Tour

Organized by:

Technical Program Committee, ISOPE

Sponsored by:

International Society of Offshore and Polar Engineers (ISOPE)

Kyushu University

with cooperating organizations (list inside)



ISOPE, P.O. Box 189

Cupertino, CA 95015-0189, USA

Fax: 1-408-980-1787

E-mail meetings@isopec.org; www.isopec.org

Welcome to ISOPE-2002

We greatly appreciate the excellent responses and help we have received from colleagues around the world in the successful organization of the 12th International Offshore and Polar Engineering Conference (ISOPE-2002 Kyushu). The Conference features **92 sessions of refereed papers** and **3 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 22 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, PACOMS-96 Pusan and PACOMS-2002 Daejeon to be held;
- The Annual ISOPE conferences, starting in Edinburgh, 1991 were held in San Francisco, Singapore, Osaka, The Hague, Los Angeles, Honolulu, Montréal, Brest, Seattle and Stavanger. 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, ISOPE OMS-99 Goa and ISOPE OMS-2001 Szczecin;
- The 1st (1996) ISOPE International Deep-Ocean Technology (IDOT-96) Symposium and Workshop, Los Angeles and IDOT-2001, Stavanger.

On behalf of the Technical Program Committee, it is our pleasure to welcome participants from all over the world to the ISOPE-2002 Conference in KitaKyushu.

Jin S Chung, USA
Ivar Langen, Norway

Wataru Koterayama, Japan
Ronald H Knapp, USA

SUNDAY May 26

09:00 ISOPE Board of Directors Meeting Waiting Room 1 (1F)

11:30
ISOPE-2002 Executive Committee Meeting Waiting Room 1 (1F)
EUROMS and PACOMS Executive Committees

15:00-18:00
CONFERENCE REGISTRATION Main Entrance Foyer (1F)

19:00-21:00
Kyushu University Reception Event Hall (1F)

For Tour Information and Spouse Program, see General Information and
<http://www.isopec.org> Also see ISOPE Bulletin Board

MONDAY May 27

07:30 Main Entrance (1F)
On-Site Registration at 07:30 (Monday only)

08:20 (Monday only) Event Hall (1F)
Author Briefing

09:00 Main Hall (1F)
Conference Opening

09:00
1. TECHNOLOGY REVIEW (V. 1) Main Hall (1F)

13:20
Plenary I: Dynamics of Finned Bodies Int Conf Room, 2F

14:00
3. TMCP STEEL: Review of Advantages (V. 4) Int Conf Room, 2F
4. OFFSHORE II: Design & Operations I (V. 1) Room 32, 3F
5. GEOTECH I: Soil Improvement (V. 2) Room 10, 1F
6. HYDROD V-I: Vortex & Vibration (V. 3) Room 11, 1F
7. HYDRO DF-I: Dynamics & Forces I (V. 3) Room 21A, 2F
8. RELIABILITY, RISK & SAFETY I (V. 4) Room 21B, 2F
9. AUV & UNDERWATER CONTROL I (V. 2) Room 22, 2F
10. POLAR I: Ridge and Pack Ice (V. 2) Room 33, 3F
11. TUBULAR STRUCT I: Static Strength (V. 4) Room 31, 3F

15:45
2. OFFSHORE I: Design Challenges (V. 1) Int Conf Room, 2F

17:00
ISOPE Technical Committee Meetings Event Hall (1F)

10:00
Fukuoka City Tour (Use JTB Reservation Form)

TUESDAY MAY 27

07:30 Author Briefing Event Hall (1F)

08:00
12. EARTHQUAKE ENGINEERING (V. 4) Int Conf Room , 2F
13. HYDRO W-I: Num Wave Tank 1 (V. 3) Room 32, 3F
14. GEOTECH II: Soil Liquefaction 1 (V. 2) Room 10, 1F
15. COASTAL ENG I: Port and Harbor (V. 3) Room 11, 1F
16. HYDRO DF-II: Dynamics & Forces 2 (V. 3) Room 21A, 2F
17. RELIABILITY, RISK & SAFETY II (V. 4) Room 21B, 2F
18. AUV & UNDERWATER CONTROL II (V. 2) Room 22, 2F
19. POLAR II: Ice Forces and Properties (V. 2) Room 33, 3F
20. TUBULAR STRUCT II: Concrete filled (V. 4) Room 31, 3F

10:45
21. OFFSHORE III: Design & Operations 2 (V. 1) Intl Conf Room
22. HYDRO W-II: Num Wave Tank 2 (V. 3) Room 32, 3F
23. GEOTECH III: Soil Liquefaction 2 (V. 2) Room 10, 1F
24. COASTAL ENG II: Sedimentation (V. 3) Room 11, 1F
25. HYDRO DF-III: Dynamics & Forces 3 (V. 3) Room 21A, 2F
26. COLLISION/IMPACT/DAMAGE (V. 4) Room 21B, 2F
27. AUV & UNDERWATER CONTROL III (V. 2) Room 22, 2F
28. POLAR III: Ice-Ocean Interactions (V. 2) Room 33, 3F
29. TUBULAR STRUCT III: Fracture/Fatig (V. 4) Room 31, 3F

13:30
 Plenary II **IODP and Science Drillship** Int Conf Room, 2F

14:00
30. OFFSHORE IV: VLFS/FPSO/SPAR 1 (V. 1) Intl Conf Room
31. HYDRO W-III: Num & Basin Waves 1 (V. 3) Room 32, 3F
32. GEOTECH IV: Soil Properties & Matls 1 (V. 2) Room 10, 1F
33. COASTAL ENG III: Waves (V. 3) Room 11, 1F
34. HYDRO DF-IV: Dynamics & Forces 4 (V. 3) Room 21A, 2F
35. ADVANCED MATLS AND METHODS (V. 4) Room 21B, 2F
36. RENEWABLE AND OCEAN ENERGY I (V. 1) Room 22, 2F
37. POLAR IV: Pack Ice and Oil Spills (V. 2) Room 33, 3F
38. COMPOSITES AND SMART STRUCT I (V. 4) Room 31, 3F

17:00 Board of Editors Meeting Waiting Room 1 (1F)

19:00 Joint TPC Meeting: ISOPE-2002 Kyushu & ISOPE-2003 Honolulu See Bulletin Board

Sunday – Thursday	
Audio/Visual Practice	Public Lounge (1F)
On-site Registration	Main Entrance Foyer (1F)
Conference Headquarters	Waiting Room 3 (2F)
Conference Staff Headquarters	Public Lounge 2 (1F)
Proceedings CD-ROM Pickup/Sales	Main Entrance Foyer (1F)

13:00-17:00
Spouse Program: *Japanese Folk Craft and Kokura Castle* (Must use the tour reservation form in General Information in this program.)

WEDNESDAY MAY 29

07:30

Author Briefing

Event Hall (1F)

08:00

39. OFFSHORE V: VLFS/FPSO/SPAR 2 (V. 1)	Intl Conf Room, 2F
40. HYDRO W-IV: Num & Basin Waves 2 (V. 3)	Room 32, 3F
41. GEOTECH V: Soil Properties & Matls 2 (V. 2)	Room 10, 1F
42. COASTAL ENG IV: Waves and Acoustics (V. 3)	Room 11, 1F
43. HYDRO DF-V: Dynamics & Forces 5 (V. 3)	Room 21A, 2F
44. MECHANICS AND ANALYSIS (V. 4)	Room 21B, 2F
45. RENEWABLE AND OCEAN ENERGY II (V. 1)	Room 22, 2F
46. RISERS/CABLES/MOORING I (V. 2)	Room 33, 3F
47. COMPOSITES AND SMART STRUCT II (V. 4)	Room 31, 3F

10:45

48. OFFSHORE VI: VLFS/FPSO/SPAR 3 (V. 1)	Intl Conf Room
49. METOCEAN I: Waves 1 (V. 3)	Room 32, 3F
50. GEOTECH VI: Bearing Capacity 1 (V. 2)	Room 10, 1F
51. COASTAL ENG V: Wave and Current (V. 3)	Room 11, 1F
52. HYDRO DF-VI: Dynamics & Forces 6 (V. 3)	Room 21A, 2F
53. MATLS/WELDING I: Fatigue 1 (V. 4)	Room 21B, 2F
54. RENEWABLE AND OCEAN ENERGY III (V. 1)	Room 22, 2F
55. RISERS/CABLES/MOORING II (V. 2)	Room 33, 3F
56. OCEAN RESOURCES & ENG I (V. 1)	Room 31, 3F

13:20

Plenary III: **Geotechnical Characteristics** Intl Conf Room, 2F

14:00

57. OFFSHORE VII: VLFS/FPSO/SPAR 4 (V. 1)	Intl Conf Room
58. METOCEAN II: Waves 2 (V. 3)	Room 32, 3F
59. GEOTECH VII: Bearing Capacity 2 (V. 2)	Room 10, 1F
60. COASTAL ENG VI: Force and Stability (V. 3)	Room 11, 1F
61. ENVIRON & REMOTE SENSING I (V. 1)	Room 21A, 2F
62. MATLS/WELDING II: Fatigue 2 (V. 4)	Room 21B, 2F
63. RENEWABLE AND OCEAN ENERGY IV (V. 1)	Room 22, 2F
64. RISERS/CABLES/MOORING III (V. 2)	Room 33, 3F
65. OCEAN RESOURCES & ENG I II (V. 1)	Room 31, 3F

19:00

Royal Hall, Rihga Royal Hotel

Annual Conference Banquet

Don't forget your ticket.

Find Update in Program and Download Information on:

<http://www. www.isoqe.org>.

Author Briefing
Audio/Visual practice

Event Hall (1F)
Public Lounge (1F)

13:00 – 17:00

Tour: Experience of Japanese Culture (Use JTB Reservation Form)

THURSDAY MAY 30

07:30
Author Briefing Event Hall (1F)

08:00
66. OFFSHORE VIII: VLFS/FPSO/SPAR 5 (V. 1) Intl Conf Room
67. METOCEAN III: Sea State 1 (V. 3) Room 32, 3F
68. GEOTECH VIII: Seabed Engineering (V. 2) Room 10, 1F
69. COASTAL ENG VII: Perforated Struct (V. 3) Room 11, 1F
70. ENVIRON & REMOTE SENSING II (V. 1) Room 21A, 2F
71. MATLS/WELDING III: Corrosion/Weld.. (V. 4) Room 21B, 2F
72. RENEWABLE AND OCEAN ENERGY V (V. 1) Room 22, 2F
73. PIPELINES I (V. 2) Room 33, 3F
74. ADVANCED SHIP & OCEAN TECH I (V. 4) Room 31, 3F

10:45
75. OFFSHORE IX: VLFS/FPSO/SPAR 6 (V. 1) Intl Conf Room
76. METOCEAN IV: Sea State 2 (V. 3) Room 32, 3F
77. GEOTECH IX: Suction Caissons 1 (V. 2) Room 10, 1F
78. COASTAL ENG VIII: Breakwater Dyn I (V. 3) Room 11, 1F
79. ENVIRON & REMOTE SENSING III (V. 1) Room 21A, 2F
80. MATLS/WELDING IV: Deform... Weld 1 (V. 4) Room 21B, 2F
81. RENEWABLE AND OCEAN ENERGY VI (V. 1) Room 22, 2F
82. PIPELINES II (V. 2) Room 33, 3F
83. ADVANCED SHIP & OCEAN TECH II (V. 4) Room 31, 3F

13:00
OMWG Meeting Waiting Room 1 (1F)

13:00
84. OFFSHORE X: VLFS/FPSO/SPAR 7 (V. 1) Intl Conf Room, 2F
85. METOCEAN V: Climatology and Waves (V. 3) Room 32, 3F
86. GEOTECH X: Suction Caissons 2 (V. 2) Room 10, 1F
87. COASTAL ENG IX: Breakwater Dyn II (V. 3) Room 11, 1F
88. ENVIRON & REMOTE SENSING IV (V. 1) Room 21A, 2F
89. MATLS/WELDING V: Deform... Weld 2 (V. 4) Room 21B, 2F
90. RENEWABLE AND OCEAN ENERGY VII (V. 1) Room 22, 2F
91. PIPELINES III (V. 2) Room 33, 3F
92. ADVANCED SHIP & OCEAN TECH III (V. 4) Room 31, 3F

08:30 – 17:30
One-Day Tour: Mt. Aso and Kumamoto Castle (Use JTB Reservation Form)

FRIDAY MAY 31

09 :00 – 15:00
CONFERENCE TOUR – Kitakyushu Industry Tour (Use JTB Reservation Form)

OPTIONAL TOURS
See *Tour Information* in General Information and contact JTB (ISOPE-2002).

ISOPE-2002 Kyushu

The Conference features 92 technical and opening sessions and 3 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 published in the Conference Proceedings.

The Conference Proceedings will be published as a set of 4 volumes (3,000 pp. est.) and be available in a CD-Rom(s) during the conference and later for worldwide post-conference mail order from ISOPE.

SESSION LIST BY TOPICS

OFFSHORE TECHNOLOGY REVIEW

1. TECHNOLOGY REVIEW (V. 1) Intl Conf Room, 2F

OCEAN RESOURCES AND ENERGY

56. OCEAN RESOURCES & ENG I (V. 1) Room 31, 3F
65. OCEAN RESOURCES & ENG I II (V. 1) Room 31, 3F
36. RENEWABLE & OCEAN ENERGY I (V. 1) Room 22, 2F
45. RENEWABLE & OCEAN ENERGY II (V. 1) Room 22, 2F
54. RENEWABLE & OCEAN ENERGY III (V. 1) Room 22, 2F
63. RENEWABLE & OCEAN ENERGY IV (V. 1) Room 22, 2F
72. RENEWABLE & OCEAN ENERGY V (V. 1) Room 22, 2F
81. RENEWABLE & OCEAN ENERGY VI (V. 1) Room 22, 2F
90. RENEWABLE & OCEAN ENERGY VII (V. 1) Room 22, 2F

OFFSHORE TECHNOLOGY

2. OFFSHORE I: Design Challenges (V. 1) Intl Conf Room, 2F
4. OFFSHORE II: Design & Operations 1 (V. 1) Room 32, 3F
21. OFFSHORE III: Design & Operations 2 (V. 1) Intl Conf Room, 2F
30. OFFSHORE IV: VLFS/FPSO/SPAR 1 (V. 1) Intl Conf Room, 2F
39. OFFSHORE V: VLFS/FPSO/SPAR 2 (V. 1) Intl Conf Room, 2F
48. OFFSHORE VI: VLFS/FPSO/SPAR 3 (V. 1) Intl Conf Room, 2F
57. OFFSHORE VII: VLFS/FPSO/SPAR 4 (V. 1) Intl Conf Room, 2F
66. OFFSHORE VIII: VLFS/FPSO/SPAR 5 (V. 1) Intl Conf Room, 2F
75. OFFSHORE IX: VLFS/FPSO/SPAR 6 (V. 1) Intl Conf Room, 2F
84. OFFSHORE X: VLFS/FPSO/SPAR 7 (V. 1) Intl Conf Room, 2F

ENVIRONMENT AND REMOTE SENSING

61. ENVIRON & REMOTE SENSING I (V. 1) Room 21A, 2F
70. ENVIRON & REMOTE SENSING II (V. 1) Room 21A, 2F
79. ENVIRON & REMOTE SENSING III (V. 1) Room 21A, 2F
88. ENVIRON & REMOTE SENSING IV (V. 1) Room 21A, 2F

GEOTECHNICAL ENGINEERING

5. GEOTECH I: Soil Improvement (V. 2) Room 10, 1F
14. GEOTECH II: Soil Liquefaction 1 (V. 2) Room 10, 1F
23. GEOTECH III: Soil Liquefaction 2 (V. 2) Room 10, 1F
32. GEOTECH IV: Soil Properties & Matls 1 (V. 2) Room 10, 1F
41. GEOTECH V: Soil Properties & Matls 2 (V. 2) Room 10, 1F
50. GEOTECH VI: Bearing Capacity 1 (V. 2) Room 10, 1F
59. GEOTECH VII: Bearing Capacity 2 (V. 2) Room 10, 1F
68. GEOTECH VIII: Seabed Engineering (V. 2) Room 10, 1F
77. GEOTECH IX: Suction Caissons 1 (V. 2) Room 10, 1F

86. GEOTECH X: Suction Caissons 2 (V. 2) Room 10, 1F

PIPELINES, RISERS AND CABLE MECHANICS

73. PIPELINES I (V. 2) Room 33, 3F
82. PIPELINES II (V. 2) Room 33, 3F
91. PIPELINES III (V. 2) Room 33, 3F
46. RISERS/CABLES/MOORING I (V. 2) Room 33, 3F
55. RISERS/CABLES/MOORING II (V. 2) Room 33, 3F
64. RISERS/CABLES/MOORING III (V. 2) Room 33, 3F

AUV AND UNDERWATER CONTROL

9. AUV & UNDERWATER CONTROL I (V. 2) Room 22, 2F
18. AUV & UNDERWATER CONTROL II (V. 2) Room 22, 2F
27. AUV & UNDERWATER CONTROL III (V. 2) Room 22, 2F

POLAR & ICE ENGINEERING, AND ENVIRONMENT

10. POLAR I: Ridge and Pack Ice (V. 2) Room 33, 3F
19. POLAR II: Ice Forces and Properties (V. 2) Room 33, 3F
28. POLAR III: Ice-Ocean Interactions (V. 2) Room 33, 3F
37. POLAR IV: Pack Ice and Oil Spills (V. 2) Room 33, 3F

METOCEAN

49. METOCEAN I: Waves 1 (V. 3) Room 32, 3F
58. METOCEAN II: Waves 2 (V. 3) Room 32, 3F
67. METOCEAN III: Sea State 1 (V. 3) Room 32, 3F
76. METOCEAN IV: Sea State 2 (V. 3) Room 32, 3F
85. METOCEAN V: Climatology and Waves (V. 3) Room 32, 3F

HYDRODYNAMICS

13. HYDRO W-I: Num Wave Tank 1 (V. 3) Room 32, 3F
22. HYDRO W-II: Num Wave Tank 2 (V. 3) Room 32, 3F
31. HYDRO W-III: Num & Basin Waves 1 (V. 3) Room 32, 3F
40. HYDRO W-IV: Num & Basin Waves 2 (V. 3) Room 32, 3F
7. HYDRO DF-I: Dynamics & Forces 1 (V. 3) Room 21A, 2F
16. HYDRO DF-II: Dynamics & Forces 2 (V. 3) Room 21A, 2F
25. HYDRO DF-III: Dynamics & Forces 3 (V. 3) Room 21A, 2F
34. HYDRO DF-IV: Dynamics & Forces 4 (V. 3) Room 21A, 2F
43. HYDRO DF-V: Dynamics & Forces 5 (V. 3) Room 21A, 2F
52. HYDRO DF-VI: Dynamics & Forces 6 (V. 3) Room 21A, 2F
6. HYDROD V-I: Vortex & Vibration (V. 3) Room 11, 1F

COASTAL ENGINEERING

15. COASTAL ENG I: Port and Harbor (V. 3) Room 11, 1F
24. COASTAL ENG II: Sedimentation (V. 3) Room 11, 1F
33. COASTAL ENG III: Waves (V. 3) Room 11, 1F
42. COASTAL ENG IV: Waves and Acoustics (V. 3) Room 11, 1F
51. COASTAL ENG V: Wave and Current (V. 3) Room 11, 1F
60. COASTAL ENG VI: Force and Stability (V. 3) Room 11, 1F
69. COASTAL ENG VII: Perforated Struct (V. 3) Room 11, 1F
78. COASTAL ENG VIII: Breakwater Dyn I (V. 3) Room 11, 1F
87. COASTAL ENG IX: Breakwater Dyn II (V. 3) Room 11, 1F

TUBULAR STRUCTURES

11. TUBULAR STRUCT I: Static Strength (V. 4) Room 31, 3F
20. TUBULAR STRUCT II: Concrete filled (V. 4) Room 31, 3F
29. TUBULAR STRUCT III: Fracture/Fatig (V. 4) Room 31, 3F

MATERIALS AND WELDING

3. TMCP STEEL: Review of Advantages (V. 4) Int Conf Room, 2F

35. ADVANCED MATLS AND METHODS (V. 4)	Room 21B, 2F
53. MATLS/WELDING I: Fatigue 1 (V. 4)	Room 21B, 2F
62. MATLS/WELDING II: Fatigue 2 (V. 4)	Room 21B, 2F
71. MATLS/WELDING III: Corrosion/Weld.. (V. 4)	Room 21B, 2F
80. MATLS/WELDING IV: Deform... 1 (V. 4)	Room 21B, 2F
89. MATLS/WELDING V: Deform... 2 (V. 4)	Room 21B, 2F

COMPOSITES AND SMART STRUCTURES

38. COMPOSITES AND SMART STRUCT I (V. 4)	Room 31, 3F
47. COMPOSITES AND SMART STRUCT II (V. 4)	Room 31, 3F

MECHANICS, COLLISION, RELIABILITY, RISK AND SAFETY

44. MECHANICS AND ANALYSIS (V. 4)	Room 21B, 2F
26. COLLISION/IMPACT/DAMAGE (V. 4)	Room 21B, 2F
8. RELIABILITY, RISK & SAFETY I (V. 4)	Room 21B, 2F
17. RELIABILITY, RISK & SAFETY II (V. 4)	Room 21B, 2F

EARTHQUAKE ENGINEERING

12. EARTHQUAKE ENGINEERING (V. 4)	Int Conf Room , 2F
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ADVANCED SHIP & OCEAN TECHNOLOGY

74. ADVANCED SHIP & OCEAN TECH I (V. 4)	Room 31, 3F
83. ADVANCED SHIP & OCEAN TECH II (V. 4)	Room 31, 3F
92. ADVANCED SHIP & OCEAN TECH III (V. 4)	Room 31, 3F

Plenary Presentation I (V.3)

Monday May 27 13:20 Int Conf Room, 2F

Dynamics of Finned Bodies: From VI to FPSO
Yeung, Ronald W., University of California at Berkeley, USA
Introduction by Jin S Chung, ISOPE

Plenary Presentation II (V.1)

Tuesday May 28 13:20 Int Conf Room, 2F

IODP (Integrated Ocean Drilling Program) and the Science Drillship "Chikyu"
Takagawa, S, Japan Marine Science and Technology Center, Japan
Introduction by Jin S Chung, ISOPE

Plenary Presentation III (V.2)

Wednesday May 29 13:20 Int Conf Room, 2F

A Comparative Study on Geotechnical Characteristics of Marine Soil Deposits Worldwide
Tanaka, H, Port and Airport Research Inst, Japan
Introduction by Matsui, T, Osaka Univ., Japan

Kyushu University Reception Event Hall (1F)
19:00 SUNDAY May 26

Conference Opening Main Hall (1F)
09:00 MONDAY May 27

Annual Conference Banquet **Rihga Royal Hotel**
19:00 WEDNESDAY May 29 Royal Hall

ISOPE-2002 Technical Program Committee (TPC)

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Dr. H. Allersma, Delft Univ. of Technology, Delft, The Netherlands
Dr. Taro Aoki, JAMSTEC, Japan
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Dr. O.T. Gudmestad, Statoil, Stavanger, Norway
Dr. S. Haver, Statoil, Stavanger, Norway
Dr. J. Hinwood, Monash University, Clayton, Vic., Australia
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Dr. D.A. Jordan, Univ. of Virginia, Charlottesville, VA, USA
Prof. H. Kajiwara, Kyushu University, Fukuoka, Japan
Prof. S. Kakuno, Osaka City Univ, Osaka, Japan
Dr. M.A. Kamyshev, VNIIST, Moscow, Russia
Dr. H. Karadeniz, Delft Univ. of Technology, Delft, The Netherlands
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