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June 16–21, Honolulu, Hawaii, USA

The Twenty-ninth (2019) International

Ocean and Polar Engineering Conference

(Offshore and Polar Engineering Conference)

Including additional ISOPE symposia:

ISOPE OMS/OMGH-2019
14th Ocean Mining & Gas Hydrates Symposium

ISOPE-2019

Honolulu, Hawaii, USA, June 16-21

(as of April 2, 2019)

Preliminary Program

Refereed papers from 50+ countries in 151 technical general
3 Plenary and 7 keynote and multiple Focus sessions
Full Program with General Information, Advance Registration and Venue Hotel. Paper List, Reservations, and Updates on
http://www.isope.org/conferences/conferences.htm
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Opening session, Banquet at ISOPE-2018

ISOPE-2019 Honolulu

The 29th Annual ISOPE–2019 Conference, Shanghai, China, June 16-21, 2019

Online Hotel Room Reservation Link:

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The 30th Annual International Ocean and Polar Engineering Conference, Shanghai, China, June 14-19, 2020

14th ISOPE Ocean Mining and Gas Hydrates Symposium (OMS/ OMGH-2019), Honolulu, Hawaii, USA, June 16–21, 2019

TECHNICAL PROGRAM

Paper List and Chair List as of April 2, 2019

ISOPE OMS/OMGH-2019
14th Ocean Mining & Gas Hydrates Symposium

Together at

ISOPE-2019 Honolulu, Hawaii, USA

The Twenty-ninth (2019) International Ocean and Polar Engineering Conference

Honolulu, Hawaii, USA, June 16–21, 2019

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This 29th annual conference features **151** technical and opening general sessions, 10 plenary presentation and keynote presentations from top experts from industry, academia and government.

All ISOPE publications are indexed by Engineering Index , EI Compendex, Google Scholar, Scopus, Scientific and Technical Proceedings (ISTP/ISI), Web of Science and others.

FULL CONFERENCE PROGRAM WITH SESSION / PAPER LIST:
Updated at
http://www.isope.org/conferences/conferences.htm
http://www.isope.org/publications/publications.htm

2019 Jin S Chung Award Lecture
Tuesday 13:10

3 Plenary and 7 keynote Presentations
Monday, Tuesday, Wednesday, Thursday, Friday

SATURDAY, June 15

Board of Directors: Annual Meeting I
16:00 — Ilima Board room, 6F

SUNDAY, June 16

Board of Directors: Annual Meeting II
09:00 — Ilima Board room, 6F

Welcome Reception
17:00 — Great Lawn, outdoor

MONDAY, June 17

Monday Session Chair Briefing
07:30 — Coral Lounge, 6F

Conference Opening Ceremony
08:30 — Coral 3, 6

ISOPE-2019 Honolulu Conference

SESSION LIST BY TOPICS

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14th OCEAN MINING AND GAS HYDRATES SYMPOSIUM (Vol. 1)

108. OMGH I - Gas Hydrates 1 (V. 1)

Wednesday June 19 16:20 Room 7

Chair: Jiawang Chen, Zhejiang Univ, China
Co-chair: Yuan Chen, China Univ of Petroleum (Beijing), China

Simulation and Analyze of Evaporation of Stationary Methane Droplet in Its Vapor during Cooling Down Process
Jiajia Deng, Jian Xu, Youwu Hu, Jinshu Lu, Zhejiang Ocean Univ, China

Experimental Investigation of Methane Hydrate Reformation with Under-inhibition of MEG
Yutaek Seo, Hyunho Kim, Seoul National Univ; Jakyung Kim, KAIST, Korea

An Experimental Study on Flow Assurance in Methane Hydrate Production System
Satoshi Hirobayashi, Tokai Univ; Fumio Kiyono, Hiromitsu Morita, AIST; Yoshiyuki Shimizu, Tokai Univ, Japan

A Study on Optimization Measures for Offshore Oil&Gas Field Development under Low Oil Price Situation
Hualei Yi, Zejun Yang, Lu Wu, Qiang Zhang, CNOOC Research Inst, China

Dynamic Mechanical Properties of Tetrahydrofuran Hydrate-bearing Silty Sediments
Xuhui Zhang, Shuyun Wang, Fangfang Sun, Xiaobing Lu, Inst of Mechanics, CAS, China

The Suitable Strength Criterion to Determine the Collapse of Hydrate Reservoirs with Different Saturation
Yuan Chen, Ting Sun, China Univ of Petroleum (Beijing), China; Yida Zhang, Univ of Colorado-Boulder, USA; Ying zhao, China Univ of Petroleum (Beijing), China

117. OMGH II: Gas Hydrates 2 (V. 1)
Thursday June 20 08:00 Room 6

Chair: Yutaek Seo, Seoul National Univ, Korea
Co-chair: Satoshi Hirobayashi, Tokai Univ, Japan

Development of Analysis and Transfer System of Seafloor Natural Gas Hydrate Pressure Core
Jiawang Chen, Qiaoling Gao, Peihao Zhang, Hai Zhuy, Ziqiang Ren, Xiaoling Le, Zhejiang Univ, China

Trajectory Optimization for Gas Hydrate Well in Deepwater: Wellbore Stability and Sand Control
Yue Gu, Deli Gao, Jina Yang, China Univ of Petroleum (Beijing), China

Application Verification of Natural Gas Hydrate Micro-experimental Study
Ye Chen, Yonghai Gao, Guizhen Xin, Dongzhi Gao, Litao Chen, Baojiang Sun, China Univ of Petroleum (East China), China

An Acoustic Approach to Identify the Shallow Gas and Evaluate the Drilling Risk in Deep Water Based on Simulation Experiments Study
Huanhuan Wang, Jin Yang, Lei Li, Jiajun Xu, Lingyu Meng, Jiayao Hong, Qiuxuan Zhao, China Univ. of Petroleum (Beijing), China

The Effect of Permeability on the Spatial Distribution of Hydrate Saturation and Gas Production Performance During Hydrate Dissociation by Depressurization
Didi Wu, Shuxia Li, China Univ of Petroleum (East China), China

127. OMGH III: OCEAN MINING 1: Exploration & Environment (V. 1)
Thursday June 20 10:30 Room 6

Chair: Akira Usui, Kochi Univ, Japan
Co-Chair Igor V Egorov, FSBI VNIIOkeangeologia, Russia

Historical Background of Preservation Reference Area (PRA) defined by the International Seabed Authority (ISA)
Tomohiko Fukushima, JAMSTEC, Japan

Preliminary Results of Environmental Monitoring of Seafloor Massive Sulphide Excavation and Lifting Tests in the Okinawa Trough
Noboyuki Okamoto, Takaaki Matsui, Shogo Kato, Japan Oil, Gas & Metals National Corp, Japan

Small-scale Distribution Patterns of Hydrogenetic Ferromanganese Crusts in the NW Pacific Seamounts; A Reconnaissance Survey using ROVs and a Manned Submersible
Akira Usui, Koichi Univ; Katsuhiko Suzuki, JAMSTEC, Japan

Experimental Study to Assess the pH Effect on Metal Release from Fe-Mn Nodules and Pelagic Clays
Kyoko Yamaoka, Geological Survey of Japan, AIST; Quan Wang, Hodaka Kawahata, Univ of Tokyo; Atsushi Suzuki, Geological Survey of Japan, AIST, Japan

Preliminary Shipboard Observations of Nodule Fauna in a Polymetallic Nodule Area of the Western Part of the Clarion-Clipperton Fracture Zone
Akira Tsune, Chisato Murakami, Deep Ocean Resources Development, Japan

Continuous Observation of Turbulent Flow Near the Hydrothermal Venting Area in the Okinawa Trough, Japan
Yasuo Furushima, JAMSTEC; Hironori Higashi, National Inst for Environmental Studies; Tatsuo Fukuhara, KANSO Co; Shunsuke Kondo, JAMSTEC; Takeya Matsuda, Kokusai Kogyo Co; Naoki Furuichi, Japan Fisheries Research and Education Agency; Hiroyuki Yamamoto, Tomohiko Fukushima, JAMSTEC, Japan

Precise U-Th Concentration and $^{234}U/^{238}U$ Analysis of Seawater from the Okinawa Trough Using MC-ICPMS [Oral Presentation]
Lisheng Wang, Zhibang Ma, Inst of Geology and Environment, CAS; Zhilei Sun, Inst of Earth Science, CAS; Xuefeng Wang, Jule Xiao, Inst of Geology and Environment, CAS, China

137. OMGH IV: OCEAN MINING 2: Environment & Mining System (V. 1)

Thursday **June 20** **14:00** Room 6

Chair: Gopkumar Kuttikrishnan, National Inst of Ocean Technology, India
Co-Chair Noboyuki Okamoto, Japan Oil, Gas & Metals National Corp, Japan

A Note on 3D Coupled Static and Transient Behaviors of 6,000-m-long Pipe-Buffer Gimballed at Surface Ship at Sea: At-sea Operation and Simulation [Oral Presentation; IJOPE, 2019]
Jin S Chung, ISOPE, USA

Prospects for Development of Deep-water Machinery for Exploration and Exploitation of Polymetallic Sulphides in Russian Exploration Area (the Mid-Atlantic Ridge)
Igor V Egorov, Anatolii Kondratenko, FSBI VNIIOkeangeologia; Artur Grigortsuk, HYCO, Russia

230Th/U Chronology of a Carbonate Chimney from Area of Activity Fluid Venting in Okinawa Trough [Oral Presentation]
Zhibang Ma, Lisheng Wang, Inst of Geology and Environment, CAS; Zhilei Sun, Zhilei Sun, Inst of Earth Science, CAS; Xuefeng Wang, Jule Xiao, Inst of Geology and Environment, CAS, China

System Preparations for Deep Water Locomotion Trials of Deep Sea Mining Crawler
C Janarthanan, V Chandran, V Sundaramoorthi, B O Vishwanath, S Rajesh, P Muthuvei, N R Ramesh, G A Ramadass, National Inst of Ocean Technology, India

Assessment of Potential Axial Resonance Due to VIV for Ultra-deep Risers
Richard Harrison, Frank Lim, 2H Offshore Engineering, UK

147. OMGH V: OCEAN MINING 3: Mining System (V. 1)

Thursday June 20 16:20 Room 6

Chair: Nobuyuki Okamoto, Japan Oil, Gas & Metals National Corp, Japan
Co-Chair Gopkumar Kuttikrishnan, National Inst of Ocean Technology

Experimental Investigation of Dynamic Response of Flexible Riser and Suspended System During Sea Trials
Aravind Gnanaraj Anbu, Rajesh Siva, Amudha Krishnan, Chandran Vasu, Sundaramoorthi Veluchamy, Viswanathana B O, Jayanthi K, Muthuvei Panayan, Ramech NR, National Inst of Ocean Technology, India

Investigation on Characteristics of Forces and Motions of Spherical Particles in Deep Sea Hydraulic Collecting
Guocheng Zhaok Longfei Xiao, Ziyu Yue, Weijie Zhao, Shanghai Jiao Tong Univ, China

Scaling Experiment of Skip Lifting System for Deep-sea Mining
Jianyu Xiao, Ning Yang, Hong Sup, Yuxiang Chen, Hong Xiong, Jun Liu, Chunliang Yu, Inst of Deep-sea Science & Eng, CAS, China

A Free Standing Vertical Transportation System for Mining Seafloor Massive Sulphides [Oral Presentation]
Frank Lim, 2H Offshore Engineering, UK

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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.

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