



Ottawa

The 33rd International Ocean and Polar Engineering Conference

Ocean Arctic Energy

June 19-23, 2023

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Since ISOPE-1992, the annual ISOPE conference has been the world's largest technical conference of its kind with **peer-reviewed** papers. Proceedings are **indexed by Science and Technology Proceedings, Web of Science, EI Compendex, Scopus, Chemical Abstracts and more**. Following the **all-time record-breaking attendance since ISOPE-2007 Lisbon**, the conference has continued to set **new records**, receiving **1,700+ abstracts for ISOPE-2015 Hawaii**. The conference is being organized by the Technical Program Committee (TPC) of the **International Society of Offshore and Polar Engineers (ISOPE)** with 30 cooperating organizations. Its objective is to provide a timely international forum for researchers and engineers.



## First Call For Papers

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<b>DEADLINES</b>	Abstract Submission	<b>October 20, 2022</b>
	Manuscript for Review	January 20, 2023
	Final Manuscript due	March 28, 2023

Prospective authors are invited to **submit an abstract** in 300-400 words to: (1) **Online abstract submission** (see above) or email [meetings@isopec.org](mailto:meetings@isopec.org); (2) **One of TPC members** (session organizers, see backside); or (3) **ISOPE-2023 TPC, 495 North Whisman Road, Suite 300, Mountain View, California 94043-5711, USA** (Phone 1-650-254-1871; Fax 1-650-254-2308), observing the above key dates. Abstract should emphasize the significance of the results and/or the originality. Abstract **must include** the paper title, all authors' and co-authors' names, affiliations, full addresses, and telephone and fax numbers and E-mail address of the corresponding author.

Some 140+ technical and industry sessions with participation from some 50+ countries will emphasize tentative topics:

### OFFSHORE TECHNOLOGY

#### & OCEAN ENGINEERING, DIGITAL

Intelligent Ocean Tech, AI, ML, Control, Simulation, Digitalization, Floating Installation, Foundation, Decommissioning, FPSO, SPAR, TLP, VLFS, Compliant Struct  
**Hydrogen, LNG, FSRU, FLNG, LNG Immersed/Floating Tunnel/Bridge, Aqua Farm, DP Control System, Mooring, Hybrid CFD, Hydroelasticity, Asset Integrity, SHM**

### DEEP-OCEAN MINING, GAS HYDRATES

Exploration, Minerals, System, Control, Design

### ISO, Codes and Standards, Rules, Regulation

### CLEAN ENERGY, OCEAN, WIND TECH

**Wind Turbines, Ocean Energy: Waves, Tidal, Current, OTEC, Hybrid system, Aero-, Hydro-, Geo-Mechanics, Floating: Install, Noise, Control Simulation/Test, Energy Storage Hydrogen, LNG Tech, Ammonia**

### OCEAN, ARCTIC ENVIRONMENT

Clean Water, Ocean Debris, Micro Plastic, Oil Spills, Contamination, Cleanup, CCS, Emission, Remote Sensing, Sensors, Monitoring/Impact

### GEOTECHNICAL ENGINEERING

Turbine Foundation, Design, Install, Pile-Soil, Suction Pile, Anchor, Soil, Stability, Big Data, Numerical Modeling, Liquefaction, Scour, Physical/Centrifuge Modelling, Geohazards

### OFFSHORE MECHANICS

#### HYDRODYNAMICS & CFD

Intelligent Hydrodynamics, AI, ML, NN, CNN, Data-driven modelling, Multiscale Comparative Study, Measurements, Particle Methods, Digitalization, Waves; Load, Impact, Slamming, Cavitation, Hydroelasticity, Metocean, Bubble, Renewables, Vortex, VIV  
SYMPOSIA: Slushing, Tsunami

#### COASTAL ENGINEERING & CFD

CFD, MPS, NN, Learning, GIS, Tsunami, Typhoon, Storm Surge, Hydrodynamics, Waves, Internal Waves, Morphodynamics, Structures, Breakwaters, Port, Ecosystem  
Particle Methods for Ocean and Coastal Symp

*Innovation, AI, Machine Learning (ML), ANN, CNN, Digital, Big Data, MPH, Mechanics Vortex Shedding, VIV Suppression*

#### SUBSEA, PIPELINES, RISERS, AI

AI, Digitalization, HPHT, Deepwater 3D Riser Mechanics, Stability, Buckling, Slugging induced Fatigue, Flow Assurance, Pipe Soil interactions, Flexible Pipe, Umbilicals, Composite Pipe

#### MECHANICS, RISK & RELIABILITY

Risk, Safety and Reliability, Earthquake, Collision, Impact, Damage Mechanics  
Structural Mechanics, Ultimate Strength, SHM

### ARCTIC SCIENCE & TECH Symposium

Ice Mechanics, Iceberg, Icing, Ice Management, Model Ice Basin, Infrastructure, Arctic Harbor, Environment, Arctic Transport, Navigation, Route, Safety, Structures, Pipelines, Permafrost, Design, Remote Sensing, Polar Meteorology, Pack Ice, Risk & Safety Assessment

### HIGH-PERFORMANCE MATERIALS

Environment Assisted Cracking (EAC) Symp  
Cryogenic Materials, Arctic Materials Symp  
Asset Integrity, Welding Technology Fatigue, Fracture, Structural Integrity, Tubular Structures  
Wind Energy Materials & Structures, Smart Structures, Nanotechnology, Functional Coating, Natural Disaster Monitoring (NDT, remote), Knowledge Management

### ADVANCED SHIP TECHNOLOGY

Clean Fuel & Technology, Hydrogen, Ammonia, LNG, Electric, Hybrid Propulsion, Clean Propulsion/Emission, Adv Propulsion, Cavitation, Power Optimization, Smart Ship, MASS, Resistance, Optimization, ASV, USV, Navigation, Maneuver, DP Control, Simulation, AI, Digital; Big data, Learning, IoT

### UNDERWATER TECHNOLOGY

AI, ML, CFD, Deep-Ocean Survey, AUV, ROV, Seabed Vehicles, Robotics, Control, Dynamics, Design, Sensing, Navigation, Launch & Recovery, Floating/ Immersed Tunnel

**PAPER REVIEW AND PUBLICATIONS:** All ISOPE papers are **peer-reviewed** prior to acceptance. The accepted papers will be included in the Conference proceedings on USB, available at the Conference from ISOPE and for worldwide distribution; individual digital files available at [www.onepetro.org/ISOPE](http://www.onepetro.org/ISOPE). Papers of archival value will be considered for further in-depth review for the *International Journal of Offshore and Polar Engineering (IJOPE)*, *SCI-E* (ISSN 1053-5381)—[www.isopec.org](http://www.isopec.org)

Send abstracts in 300-400 words to (1) ISOPE TPC Online ([www.isopec.org](http://www.isopec.org)) or (2) any of the members in the ISOPE Technical Program Committee (TPC) in the partial list below: **Abstract Deadline: October 20, 2022**

Dear Colleagues,

On behalf of ISOPE-2023 Conference TPC, we would like to invite your abstract for possible presentation at the 33rd International Ocean and Polar (Arctic) Engineering Conference, Ottawa, Canada, June 19-23, 2023. In addition to strong sessions on the existing popular ISOPE topics, we continue to promote **additional specialty symposia and focus sessions on emerging topics** as listed on the front side.

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