



Ottawa

The 33rd International Ocean and Polar Engineering Conference

Ocean Arctic Energy

June 19-23, 2023

Join us in Ottawa, the capital and soul of Canada

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 ISI ISTEP/Web of Science, ISI/IT, ISI/PA, Clarivate, EI (Compendex), Scopus, Chemical Abstracts, Fluidex, 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.



Final Call For Papers

Update at
www.isopec.org

Online abstract submission <https://www.isopec.org/online-submission/> or meetings@isopec.org

DEADLINES	Abstract Submission	November 11, 2022
	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**; (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

RENEWABLE ENERGY: OCEAN, WIND

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

AI, ML, NN, CNN, Data-driven modelling, Comparative Study - CCP-WSI Blind Test and, **Wind Turbine, Particle Methods, Digitalization, Waves; Load, Impact, Slamming, Cavitation, Hydroelasticity, Metocean, Bubble, Vortex Shedding, VIV/Suppression SYMPOSIA: Intelligent Hydrodynamics, Sloshing, Tsunami**

COASTAL ENGINEERING & CFD

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

Innovation, AI, Machine Learning (ML), ANN, CNN, Digital, Big Data, MPH, Mechanics

SUBSEA, PIPELINES, RISERS, AI

AI, Digitalization, HPHT, Deep Ocean 3D Riser Mechanics, Biaxial bending, Torsion, 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, Infrastructure, ML, CNN, RNN, Arctic Harbor, Environment, Arctic Shipping, Navigation, Route, Structures, Pipelines, Permafrost, Design, Remote Sensing, Meteorology, Pack Ice, Risk & Safety Assessment

HIGH-PERFORMANCE MATERIALS

Environment Assisted Cracking (EAC) 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, CO₂, Ammonia, LNG, Electric, Hybrid Propulsion, ML, IoT, AI, Digital; Big data, Adv Propulsion, Cavitation, Power Optimization, Smart Ship, MASS, Resistance, Optimization, ASV, USV, Navigation, Maneuver, DP Control,

SYMPOSIUM Marine Transportation of CO₂ & H₂ Energy Carriers (MaTCH)

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;

* **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.**

** **Individual Conference and Journal papers** available at www.onepetro.org/ISOPE. **Proceedings in CD or USB** can be ordered from orders@isopec.org; **Conference and Symposium Program** at <https://www.isopec.org/conferences-symposia-and-workshops/>

Special room rates at The Westin Ottawa arranged for ISOPE-2023 participants