



## Rhodes

## Ocean Arctic Energy Environment

June 16–21, 2024

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## Final Call For Papers

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<b>DEADLINES</b>	<b>Abstract Submission</b> Manuscript for Review Final Manuscript due	<b>November 15, 2023</b> January 20, 2024 March 28, 2024
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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-2024 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.

LH2,, NH3, LCO2, LNG, Electric, FSRU, FLNG, LNG Immersed/Floating Tunnel/Bridge, Aqua Farm, DP Control System, Mooring CFD, Hydroelasticity, Asset Integrity, SHM Codes and Standards, Rules, Regulation

### DEEP-OCEAN MINING, GAS HYDRATES

Exploration, Minerals, System, Control, Design Adv Dredging, Integrated Seabed Collection

**RENEWABLE ENERGY: Ocean, Wind, ... FOWT**, Comparative Study, **Ocean Energy**: Waves, Tidal, Current, OTEC, **Hybrid** system, Aero-, Hydro-, Geo-Mechanics, Floating: Install, Noise, Control Simulation/Test, Energy Storage **Hydrogen, LNG Tech, Solar, Nuclear**

### CLIMATE AND ENVIRONMENT

CO2, CCS, NH3, Emission, Remote Sensing, Monitoring/Impact Ocean Debris, Micro Plastic, Oil Spills, Contamination, Cleanup,

### GEOMECHANICS & ENGINEERING

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

### OFFSHORE MECHANICS

#### HYDRODYNAMICS & CFD

AI, ML, PINN, 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

PINN, 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), PINN, ANN, CNN, Digital, Big Data, MPH,**

#### SUBSEA, PIPELINES, RISERS, AI

AI, Digitalization, HPHT, Deep Ocean 3D Riser Mechanics, Biaxial bending, Torsion, Stability, Buckling, Fatigue, Hydraulic/Air-lift flow, 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

### POLAR 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**, LH2, LCO2, NH2,, CCS, LNG, Electric, Hybrid Propulsion, ML, IoT, AI, Digital; Big data,  
**The 2nd Symp Marine Transportation: CO2, H2, NH3 Carriers (MaTCH)**

**Smart Ship**, Adv Propulsion, Cavitation, Power Optimization, Resistance, MASS, ASV, USV, Navigation, Maneuver, DP Control,

#### 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](http://www.isopec.org).

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Special ISOPE room rate at 5-star Rodos Palace Hotel starts from €110/night and up.

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: November 15, 2023**

Dear Colleagues,

On behalf of ISOPE-2024 Conference TPC, we would like to invite your abstract for possible paper presentation at the **34th International Ocean and Polar (Arctic) Engineering Conference, Rhodes (Rodos), Greece, June 16–21, 2024**. In addition to strong sessions on 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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15th (2024) ISOPE Pacific-Asia Offshore Mechanics Symposium (ISOPE PACOMS-2024), Chennai (host: IIT Madras, India, October 13-16, 2024