



## Rhodes

## Ocean Arctic Energy

June 16–21, 2024

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# First Call For Papers

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<b>DEADLINES</b>	<b>Abstract Submission</b>	<b>October 20, 2023</b>
	Manuscript for Review	January 20, 2024
	Final Manuscript due	March 28, 2024

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  
**Hydrogen, Ammonia, LNG, Electric, FSRU, FLNG, LNG Immersed/Floating Tunnel/Bridge, Aqua Farm, DP Control System, Mooring CFD, Hydroelasticity, Asset Integrity, SHM**

### DEEP-OCEAN MINING, GAS HYDRATES

Exploration, Minerals, System, Control, Design

### 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, Photovoltaic, Nuclear**

### OCEAN, ARCTIC ENVIRONMENT

Clean Water, Ocean Debris, Micro Plastic, Oil Spills, Contamination, Cleanup, CO<sub>2</sub>, CCS, Emission, Remote Sensing, 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, 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, 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, CO<sub>2</sub>, Ammonia, LNG, Electric, Hybrid Propulsion, ML, IoT, AI, Digital; Big data, Smart Ship, Adv Propulsion, Cavitation, Power Optimization, Smart Ship, MASS, Resistance, Optimization, ASV, USV, Navigation, Maneuver, DP Control,  
**2nd Symposium Marine Transportation: CO<sub>2</sub> & H<sub>2</sub> 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](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: October 20, 2023**

#### Dear Colleagues,

On behalf of ISOPE-2024 Conference TPC, we would like to invite your abstract for possible 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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