

## Welcome to the ISOPE-2021 Rhodes Conference

We greatly appreciate the excellent response and help, despite the Covid-19 pandemic in 2020, we have received from colleagues around the world in the successful organization of the Hybrid 31st International Ocean and Polar (Arctic) Engineering Conference (ISOPE-2021) Rhodes, Greece, June 20-25, 2021. The Conference features **123** sessions of peer-reviewed papers and **3** plenary and keynote presentations from more than **40** countries, including the ISOPE specialty symposia as a part of the ISOPE-2021 Conference.

The conference program is in Live as well as video presentations and discussions.

The purposes of the ISOPE conference are to:

- \* Promote technological progress and activities, international technological transfer and cooperation, and opportunities for engineers to maintain and improve technical competence; and
- \* Provide a timely international forum for technical activities, cooperation, opportunity and fellowship among researchers and engineers by developing focused session topics with high-quality papers (in both originality and significance) accepted through rigorous review, establishing high international standards for publication and worldwide distribution, and promoting interdisciplinary interaction between academia and industry.

Since 1990, the International Society of Ocean and Polar Engineers (ISOPE) has held 64 successful international meetings with all peer-reviewed papers:

- Annual **ISOPE** conferences, starting in Edinburgh, 1991, have been held around the world in San Francisco, Singapore, Osaka, The Hague, Los Angeles, Honolulu, Montréal, Brest, Seattle, Stavanger, Kitakyushu, Honolulu, Toulon, Seoul, Lisbon, Vancouver, Beijing, Maui (Hawaii), Rhodes, Anchorage, Busan, Kona (Hawaii), Sapporo, and Shanghai (hybrid). Since 1992, the annual ISOPE conference program has been the world's largest of its kind with peer-reviewed papers.
- Pacific/Asia Offshore Mechanics Symposium (**PACOMS**), beginning with the 1st PACOMS-90 Seoul in 1990; also in Beijing, Busan, Daejeon, Vladivostok, Dalian, Bangkok, Shanghai, Gold Coast, Jeju Island, and Dalian, 2020.
- European Offshore Mechanics Symposium (**EUROMS**), starting with the 1st EUROMS-90 Trondheim in 1990; also EUROMS-99 Moscow, EUROMS-2012 Istanbul.
- ISOPE (Deep) Ocean Mining & Gas Hydrates Symposium: Started with 1st **OMS-95/OMGH**, Tsukuba, 1995; followed by Seoul, Goa, Szczecin, Changsha, Lisbon, Chennai, Kona Hawaii, Sapporo, Honolulu, and Shanghai (hybrid), 2020.
- International Deep-Ocean Technology (**IDOT**): Started with IDOT-96 Symposium and Workshop, Los Angeles, 1996; also Stavanger, 2001; Beijing, 2009.
- ISOPE **HPM** (High-Performance Materials) Symposium: Started in Honolulu, 2003 and expanded every year with emerging topics.
- A series of ISOPE specialty symposia: **ANGT**; **SBD**; Nanotechnology **NANOS**; Frontier Energy; Sloshing & Dynamics; Renewable Energy/Environment; Tsunami; Arctic Sci & Tech; Arctic Materials; Asset Integrity; High-Mn/Cryogenic Materials; Materials Reliability, EAC.

On behalf of the Technical Program Committee, it is our pleasure to welcome participants from all over the world to the ISOPE-2021 (hybrid) Conference in Rhodes, Greece.

ISOPE-2022 Shanghai is back to “*In-person*” Conference.

Prof. Jin S Chung  
California, USA

Prof. Ronald H  
Knapp  
Hawaii, USA

Prof. Demos  
Angelides  
Thessaloniki, Greece

Dr. Sa Y Hong  
Daejeon, Korea

Dr. H Kawai  
Yokosuka, Japan

Prof. H Liu  
Prof. DC Wan  
Shanghai, China