

**The 12th (2020) ISOPE
Sloshing and LNG Ship Dynamics Symposium**
First
CALL FOR PAPERS

Liquid sloshing, physics of liquid impacts, and structural response are key aspects in many engineering disciplines like aerospace, automotive, liquid storage and transport, shipbuilding, and coastal engineering. Starting from sloshing in LNG tanks, this symposium has evolved into the most successful international platform to present and discuss findings related to sloshing liquids, structural response and sloshing mitigation in all fields of engineering.

Come to the Sloshing Symposium to present your own findings, discuss with colleagues from academia, industry, and classification societies from around the world, and all together we will learn more about the physics of sloshing liquids. The culture of the Sloshing Symposium is to vigorously discuss all presentations and thus promote scientific exchange as part of the ISOPE conference, with more than 1000 participants each year.

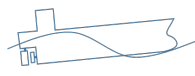
ISOPE and the Symposium Organizing Committee invite colleagues who are engaged or interested in liquid sloshing and related fields to join this 12th ISOPE Sloshing Symposium in Shanghai, China.

Special ISOPE room rate will be available.

Suggested Topics



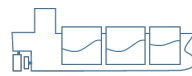
Tanker Trucks



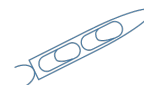
Slamming



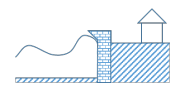
LNG Sloshing



Coupled Liquid Motion



Aerospace



Coastal Engineering

- Design practices and guidelines for sloshing
- Wave impacts in coastal engineering
- Cargo containment systems and ship design
- LNG shipping, LNG as Fuel, small-scale LNG
- Floating LNG transfer / land-based LNG storage
- Hydrogen storage and transport
- Smart structures and sloshing monitoring
- Passive and active sloshing mitigation
- Artificial Intelligence (AI) for sloshing parameter identification and self-learning systems
- Fluid oscillations in feeding systems
- CFD and sloshing simulations
- Sloshing experiments and assessment procedures
- Physics of liquid impacts and scaling
- Instrumentation especially at cryogenic conditions
- Fluid-Structure Interaction and structural strength
- Cryogenic technology
- Coupled sloshing and vessel motion
- Big data / data fusion for real-time sloshing analysis
- Virtual sloshing testing and verification
- Sloshing in aerospace and automotive applications

Key Dates

Abstract Submission
October 20, 2019

Manuscript for Review
January 15, 2020

Final Revised Manuscript due
March 24, 2020

Submit online <http://www.isopec.org/index.php/online-submission/>

General topic: **Hydrodynamics**; Specific Topics, Primary: **Sloshing and LNG ship**

Symposium Organizing Committee (arranged by last name)

- Prof. André Baeten, Augsburg University of Science & Technology, Germany, andre.baeten@hs-augsburg.de
- Mr. Laurent Brosset, GTT, France, lbrosset@gtt.fr
- Dr. Yusong Cao, C-Z Marine Technology, USA, yusong.cao@czmarine.com
- Prof. Jin S. Chung, ISOPE, USA jschung@isopec.org
- Prof. Yooil Kim, Inha University, Korea, yooilkim@inha.ac.kr
- Dr. Chang S Kwon, Samsung Heavy Industries, Korea, cs81.kwon@samsung.com
- Dr. Chong Ma, NMRI, Tokyo, Japan; ma-chong@nmri.go.jp
- Dr. Jens Neugebauer, University of Duisburg-Essen, Germany, jens.neugebauer@uni-due.de
- Dr. Sebastian Schreier, TU Delft, The Netherlands, s.schreier@tudelft.nl
- Prof. Decheng Wan, Shanghai Jiao Tong University, China, dcwan@sjtu.edu.cn