

ISOPE-2009: Sloshing Dynamics Symposium-2009 Osaka

CALL FOR PAPERS

The 19th International Offshore and Polar Engineering Conference

Osaka, Japan, June 21-26, 2009

1st ISOPE Sloshing Dynamics Symposium

Studies on sloshing-induced impact loads on ship cargo tanks have been extensively carried out about thirty years ago. Recently there is a resurgence of sloshing related research activities and project applications, primarily driven by the development of step-change LNG carriers (such as Q-Flex and Q-Max size LNG ships) and LNG-FPSO's, and LNG-FSRU's.

At ISOPE-2009, a special symposium for sloshing dynamics is organized to introduce the recently completed research work and joint-industry projects, to share research results, knowledge and lessons-learned about the technology, to present recently published industry recommended practices and regulatory Guidance Notes, and to discuss additional research topics.

Currently the ISOPE Technical Committee proposed topics for the first Sloshing Dynamics Symposium include theoretical modeling of sloshing phenomena, CFD simulation, sloshing test technology including sensor arrangement, motions input and data acquisition, damping, sloshing-structure responses, strength and structural integrity, sloshing design and assessment methodologies, and recommended Practices and Guidance Notes, etc. A proposed joint-industry study to compare sloshing assessment methodologies and tools for modeling and systematically measuring impact events will be presented for discussion as well.

Suggested Technical Topics

- Theoretical modeling of sloshing phenomena
- CFD simulations
- Sloshing test technology including sensor arrangement, motions input and data acquisition
- Damping
- Sloshing-structure responses
- Strength and structural integrity
- Sloshing design and assessment methodologies
- Recommended Practices and Guidance Notes
- Comparative study project

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Key Dates:

- **Abstracts due: November 20, 2008**
- **Manuscript for review: Jan. 20, 2009**
- **Final papers due: March 24, 2009**

Interested authors should send abstracts to one of the organizing committee members or submit online at www.isopec.org. The abstracts MUST include the contact author's postal address, telephone and fax numbers, and e-mail address to facilitate communications.