

ISOPE-2010: Sloshing Symposium Beijing

CALL FOR PAPERS

The 20th International Offshore and Polar Engineering Conference

Beijing, China, June 20-26, 2010

2nd ISOPE Sloshing Dynamics & Design Symposium

The 1st ISOPE Sloshing Symposium held in Osaka turned out to be the most successful technical gathering for sharing and learning of the state-of-the-art sloshing research and applications among universities, industries and class societies. Through vigorous discussion of the keynote presentations, conference papers and technical workshops, together they made a significant progress toward understanding of sloshing physics. With it, the symposium provided a foundation for establishing appropriate Scaling Laws for conducting experiments in the laboratories along with the required probabilistic prediction of sloshing impact pressures for integrity design of structures. It also served as the guidance for participants to review computational methods (CFD) developed to numerically simulate sloshing phenomena. Leveraging the success, ISOPE has decided to continue sponsoring this platform to further collaboration of efforts among universities, industry and regulatory bodies and to advance sloshing technologies for industrial applications. **The theme of 2010 Sloshing Symposium Beijing is sharing of industry sloshing experiences, and use of lessons-learned to benchmark the modeling of sloshing physics and the state-of-the-art testing and analytical prediction of impact pressures for design.**

Suggested Technical Topics

- Industry sloshing experience-sharing and lessons-learned for benchmarking
 - Theoretical modeling of sloshing physics
 - CFD simulations of sloshing phenomena and comparison against experiments
 - Probabilistic modeling of stochastic sloshing impact pressures
 - Sloshing test technology including sensor design, motions input and data acquisition
 - Strength and structural integrity of LNG facilities
- Comparative study of CFD tools (Visit www.isopec.org for details on the benchmark test)
- Efficient and safe design of LNG storage, offshore offloading and transportation
- Recommended Design Practices and Guidance Notes

Symposium Organizing Committee:

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Key Dates:

- Abstracts Due: **December 1, 2009**
- Manuscript for Review: **Feb. 15, 2010**
- Final Papers Due: **March 24, 2010**

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.