First CALL FOR PAPERS

The 18th ISOPE High Performance Materials (HPM) Symposium at the 30th ISOPE Conference
Shanghai, China, June 14–19, 2020

The objective of the symposium is to provide a forum to discuss recent developments and commercial outlook in advanced materials technologies and provide a medium for technically based, interdisciplinary discussions of core materials technologies.

Special ISOPE room rate starts from $110 per/night

**Topics of Interest**

**HPM: 2020 Symposium Focus**

- Renewable Energy & Materials: Materials for offshore wind/wave Energy, Offshore structures, Corrosion, Structural design practices, and shale oil & gas resources development challenges
- Natural disaster monitoring: NDT, Remote sensing, Numerical methods, and Mitigation for structural integrity.
- Knowledge management: Digitalization, Sharing/learning tools, Best practices/limits
- Nanotechnology materials
- Case Studies in failure analysis.

**Asset Integrity:** including higher process-level topics.

- Damage Mechanisms Review, Integrity Operating Windows, Monitoring of Fixed and Rotating Equipment.
- Risk and reliability-based approaches for structures, pipelines, piping and rotating machinery.
- Artificial intelligence, machine learning and digitalization and applications.
- Systematic basis/Best practices/Regulations/Monitoring Techniques/Business Drivers.
- Asset future decommission, life cycle assessment, design life extension.
- Fixed and floating structures and civil infrastructure integrity mgmt. including ports, civil.

**General HPM Topics**


**Symposium Organizing Committee:**

- **Dr. HyunWoo Jin,** ExxonMobil Research, USA; h.w.jin@exxonmobil.com
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- **Mr. Ali Reza,** Exponent, USA; reza@exponent.com

**Key Dates:**

- **Abstract submission:** October 20, 2019
- **Manuscript for review:** January 15, 2020
- **Final paper:** March 24, 2020
Interested authors should send abstracts to one of the organizing committee members or submit online at 
http://www.isope.org/index.php/online-submission/

Include the name of the inviter. The abstracts MUST include the contact author’s postal address, telephone and fax numbers, and e-mail address to facilitate communications.