

CALL FOR PAPERS

The 28th ISOPE Conference
Sapporo, Japan, June 10–15, 2018

Cryogenic Materials Symposium

The second symposium on Cryogenic Materials will be held at the annual ISOPE 2018, Sapporo, Japan. To meet the increasing worldwide demand for natural gas, there is a need to safely and economically develop resources in more remote and challenging locations. LNG (Liquefied Natural Gas) can be an economical way to monetize such resources. Multiple new LNG projects are expected to start/develop within oil/gas industry over the next few decades. Such LNG projects are capital-intensive and are associated with significant material and fabrication (welding) costs. There is an opportunity to develop new material technology or further optimize current technologies to reduce capital costs and/or simplify designs. Some of the materials performance factors in LNG environments include low temperature toughness, strength, CTE (coefficient of thermal expansion), weldability. Thus, a special symposium is being organized to provide the scientific-industrial community an insight of new materials and fabrication technology development in the subject of "Cryogenic Materials". Scope of this symposium includes all low temperature applications – for eg., LNG storage, pipes, low temperature section of gas treatment facilities, LNG transportation (shipping), or any non-LNG type cryogenic applications etc.

Suggested Topics

- Materials development (steels, composites, etc)
- 9%Ni, and 7% Ni steels
- Cryogenic high Mn steels
- Austenitic stainless steels
- Invar alloys
- Al alloys
- Welding consumables
- Welding technologies
- Design of cryogenic service structures
- Safety and risks analysis
- Failure mechanisms
- Testing and evaluation methods
- Computational modeling and simulation
- Codes and standards development
- Inspection & Monitoring
- Environment, safety regulations

Symposium Organizing Committee:

Dr. Neerav Verma, ExxonMobil Upstream Research Company, USA
neerav.verma@exxonmobil.com

Dr. Murali Manohar, ArcelorMittal Global R&D, USA
Murali.Manohar@arcelormittal.com

Prof. Tomoya Kawabata, The University of Tokyo, Japan
kawabata@fract.t.u-tokyo.ac.jp

Dr. Kazukuni Hase, JFE Steel, Japan
k-hase@jfe-steel.co.jp

Dr. Satoshi Igi, JFE Steel, Japan
s-igi@jfe-steel.co.jp

Dr. Natalia Loukachenko, ArcelorMittal Industeel, France
natalia.loukachenko@arcelormittal.com

Key Dates:

Abstract submission:

November 20, 2017

Manuscript for review:

January 15, 2018

Final paper:

March 24, 2018



Interested authors should send abstracts to one of the organizing committee members or submit online at.

<http://www.isopec.org/call4papers/2017/HowToSubmitAbstractOnline.htm>.

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.