

# ISOPE-2020 Conference, Shanghai

*The 30th Annual International Ocean and Polar Engineering Conference*

*Shanghai, China, June 14–19, 2020*

## 10th ISOPE Arctic Materials (ArcticM-2020) Symposium

### *First* **CALL FOR PAPERS**

The growing focus on arctic oil/gas exploration and production has raised the need for new industry practices and standards for materials selection, qualification and design for structures. Challenges in arctic operations include low temperatures that are encountered (i.e. design temperatures down to -60°C) and large temperature variations between summer and winter. Yet another aspect is the potentially large deformations that may be imposed on pipelines and structures due to frost heave, thaw settlement, or iceberg scour. Due to the harsh weather and poor light conditions, transportation, installation and maintenance work can be very challenging. Emissions from the operation and large operational “foot-print” must be controlled to minimize environmental impact. In order to pursue exploration in arctic areas it is necessary to develop robust structures which are easy to deploy and maintain. Key factors in this picture are materials and welding technology. Thus, a special symposium is being organized to provide the scientific-industrial community with insight of new materials and technology development in the subject of "Arctic Materials".

*Special ISOPE room rates start from \$110 per/night*

#### Topics of Interest

- Materials development (steels, composites, etc)
- Welding consumables
- Welding technology
- Low temperature properties
- Mechanisms of embrittlement
- Large deformations
- Testing and evaluation methods
- Modelling and simulation
- Design, safety and risks
- Codes and standards development

#### Symposium Organizing Committee:

*Dr Odd M. Akselsen, SINTEF, Norway [Odd.M.Akselsen@sintef.no](mailto:Odd.M.Akselsen@sintef.no)*

*Dr Erling Østby, DNV-GL, Norway [erling.ostby@dnvgl.com](mailto:erling.ostby@dnvgl.com)*

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#### Key Dates:

Abstract submission:

**October 20, 2019**

Manuscript for review:

**January 15, 2020**

Final reviewed paper:

**March 24, 2020**

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