



# 1<sup>st</sup> ProEis Workshop

Free-of-charge workshop on ship efficiency depending on ship and propeller design of ice-going ships

Sep. 26<sup>th</sup>, 2017 Hamburg, Germany

## TIMETABLE

- 15:00 h Welcome at Empire Riverside Hotel, Hamburg
- 15:30 h **ProEis - Overview and objectives of the German funded research project**  
Daniela Myland, Hamburgische-Schiffbau Versuchsanstalt, HSVA
- 15:45 h Session 1: Ship Efficiency
- Enhancement of efficiency of ice-class propellers**  
Lars Greitsch, Mecklenburger Metallguss GmbH, MMG
- Investigation of ice breaking performance**  
Daniela Myland, Hamburgische-Schiffbau Versuchsanstalt, HSVA
- Development of a numerical ice-tank to improve the propulsion efficiency of ice-going ships**  
Christian Janßen, Technische Universität Hamburg-Harburg, TUHH
- 16:30 h Panel Discussion 1 under direction of Dr. Walter Kuehnlein (sea2ice)
- 16:50 h Break



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17:00 h      Session 2: Loads on Propeller(s) and its Blades

**An experimental method for investigation of model propeller-ice interaction**

Quentin Hisette, Hamburgische-Schiffbau Versuchsanstalt, HSVA

**Numerical investigation of propeller-ice interaction effects**

Quentin Hisette, Hamburgische-Schiffbau Versuchsanstalt, HSVA

**Measurement of ice interaction loads at the model of a Voith Schneider Propeller**

Philipp Hauer, Voith Turbo Schneider Propulsion

**Strength analysis of propeller pitch mechanism under ice loads**

Holger Mumm, DNV GL SE

17:50 h      Panel Discussion 2 under direction of Professor Sören Ehlers (TUHH)

18:10 h      Farewell Snack

19:30 h      End of Workshop

Workshop moderation by Dr. Janou Hennig (Managing Director of HSVA)

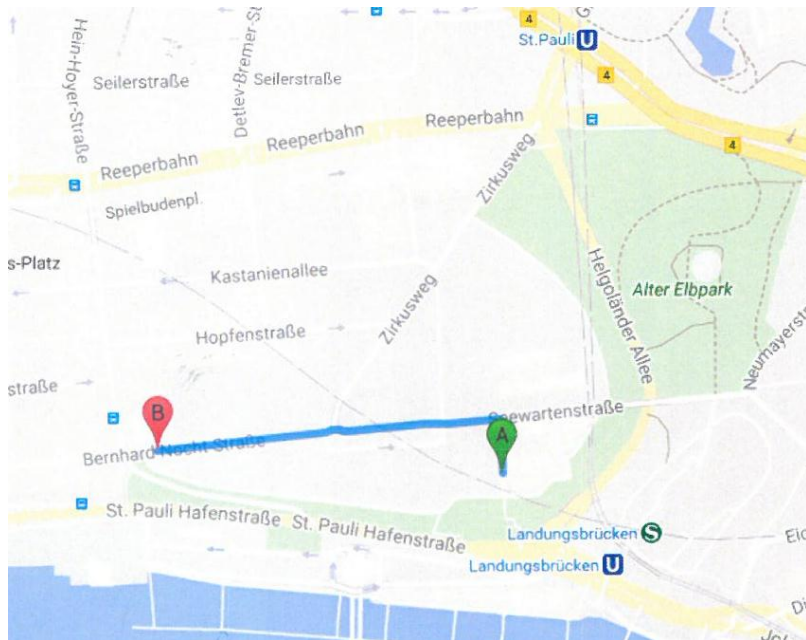
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