



## 32<sup>nd</sup> SYMPOSIUM ON NAVAL HYDRODYNAMICS ABSTRACT INSTRUCTIONS

Dear Colleagues:

The 32<sup>nd</sup> Symposium on Naval Hydrodynamics, to be co-sponsored by the U.S. Office of Naval Research and the Institute for Fluid Dynamics and Ship Theory of the Hamburg University of Technology (TUHH), is scheduled to take place from August 5th through 10th, 2018 at the Former Main Customs Office, Hamburg, Germany. As a global forum for networking and sharing advancements in cutting edge science and technology since its inception in 1956, this biennial symposium has focused on research and development in fluid mechanics as they relate to naval hydrodynamics. The Symposium Proceedings have traditionally provided archival documentation of state-of-the-art research and development in naval hydrodynamics.

The following problem areas in naval hydrodynamics are the topics for the technical program:

- Cavitation and Multi-phase Flows
- Nonlinear Wave-induced Motions and Loads
- Turbulent Drag Reduction
- Fundamentals of Fluid Dynamics in the Naval Context
- Propulsor Hydrodynamics
- Hydroelasticity for Ships
- Hydrodynamics of High Speed or Multi-hull Ships
- Hydrodynamics in Ship Design
- Undersea Vehicle Hydrodynamics
- Hydrodynamics of Maneuvering and Control
- Near- and Far-Field Ship Wave and Wake Hydrodynamics
- Hydroacoustics
- Ocean Environment and Extreme Waves

The symposium Organizing and Paper Selection Committee is soliciting extended abstracts in the above topic areas. The abstracts can cover theoretical, experimental, or numerical aspects, and must be of archival quality. Emphasis is placed on new developments in the general field of fluid mechanics as they relate to naval hydrodynamics.

The **extended abstract** size should be **3 pages** with single spaced, single column on 8.5 by 11 inch (A4 size) paper using Times New Roman font with 12 pt size, and with normal margins of 1 inch (2.5cm) in all four sides. Abstracts with less than 3 pages will not be considered for review. A sample abstract is provided. The extended abstract should include:

1. Title, Author(s)'s name(s) and affiliation(s). E-mail address and phone number for the **First Author** (who will be the **Corresponding Author**).
2. Identify one or two (no more than two) topic area(s) your paper will address from the topics listed above.
3. Introduction, providing brief background and the objective(s) of the paper.
4. Approach, describing approach how the objective will be met.
5. Results, showing major results with representative figures.
6. References, list major references.

The extended abstracts in PDF format are to be uploaded via the following internet form no later than August 1, 2017:

[32<sup>nd</sup> SNH Abstract Submission Form](#)

In case of difficulty with the above form, abstracts can be emailed to [snhopc@gmail.com](mailto:snhopc@gmail.com).

Selection of papers will be based on the technical merit and relevance of the submitted abstracts with consideration given to the technical program balance. Authors of accepted abstracts will be notified by email on November 1, 2017. The full papers in PDF format are due by March 19, 2018 to the Symposium website. The Organizing & Paper Selection Committee will then review the submitted papers and comment on the following criteria: abstract, introduction or background, uncertainty estimates on experimental data, verification and validation of computational models, figures and tables, conclusions and references. Comments by the committee will be e-mailed to the authors by June 1, 2018 for paper revision if necessary. Revised papers are due by July 2, 2018. Any paper not received in PDF format by the deadline will not be accepted. The substance of the papers to be presented at the Symposium should not have been previously presented or published.

Please see <https://www.tuhh.de/SNH2018/> for additional information.

We look forward to welcoming you at the 32<sup>nd</sup> Symposium on Naval Hydrodynamics in Hamburg.

Dr. Ki-Han Kim

U.S. Office of Naval Research

Prof. Dr.-Ing. Moustafa Abdel-Maksoud

Hamburg University of Technology (TUHH)