

## **IWSH 2019**

### **11th INTERNATIONAL WORKSHOP ON SHIP AND MARINE HYDRODYNAMICS**

HAMBURG, GERMANY SEPTEMBER 22<sup>nd</sup> – SEPTEMBER 25<sup>th</sup>, 2019

<https://iwsh2019.fds.tu-harburg.de/>

From September 22<sup>nd</sup> to September 25<sup>th</sup> of 2019, the 11<sup>th</sup> Workshop on Ship and Marine Hydrodynamics (IWSH 2019) will take place in Hamburg, Germany. The workshop is a biannual event aimed specifically at young professionals working in the domain of marine engineering, ship hydrodynamics and renewable energy. The workshop shall give researchers and engineers from around the world the opportunity to present and discuss recent developments and current advancements in their respective fields of work. The scope of the workshop topics will include theoretical, experimental and numerical works as well as a combination of these.

The IWSH 2019 in Hamburg offers a pleasant environment to establish new cooperation and find impulses for one's own work. As an incentive, the best student submission will be acknowledged with a Best Student Paper Award. All contributed papers will be selected and invited for consideration to publish in the following journals:

- Ocean Engineering
- Journal of Advanced Research in Ocean Engineering (JAROE)
- Journal of Hydrodynamics (JHD)
- Journal of Ocean Engineering and Science (JOES, SJTU)
- Ship Technology Research (STR)

#### **TOPICS**

The scope of the conference will be broad, covering all issues related to hydrodynamics of ship and ocean engineering and other related fields such as renewable maritime energy. Specific themes include, but are not limited to:

- Resistance, propulsion, seakeeping, maneuverability
- Cavitation and cavitating flows
- Linear and nonlinear waves and current
- Slamming, sloshing, green water, run-up, impact
- Computational fluid dynamics, numerical wave tank and virtual displaying system
- Hull form optimization based on CAD/CFD
- Fluid-structure interaction and hydro-elasticity
- Environmental loads and underwater noise
- Hydrodynamic performance of high speed vessels
- Hydrodynamic performance of offshore platforms, pipelines, risers and mooring systems
- Hydrodynamics of renewable marine energy and ocean resources
- Experimental techniques for towing tank, wave flume and water basin
- Other aspects of hydrodynamics in ship and ocean engineering

#### **IMPORTANT DATES**

- Abstract Submission: December 14<sup>th</sup>, 2018
- Notification of Abstract Acceptance: February 15<sup>th</sup>, 2019
- Submission of Full Papers: May 31<sup>st</sup>, 2019
- Early registration deadline: June 28<sup>th</sup>, 2019

## **VENUE**

### ***Hamburg University of Technology (TUHH), Hamburg***

The Hamburg University of Technology is one of the newest and most successful universities of technology in Germany. Located south of the river Elbe, its growth over the past decade has dominated the development of its surrounding district. A short train ride of about 20min will take you into the city centre of Hamburg.

Home to one of Europe's largest harbours, Hamburg's charm is characterized by its maritime, metropolitan flair. While being the second largest city in Germany, it can nevertheless be discovered by bike or foot, allowing every guest an insight into the relaxed and calm nature of the Hamburg city life.

## **ABSTRACT/FULL PAPER SUBMISSION**

Authors are invited to submit abstracts, following the instructions documented in the abstract template which is available on the conference website. Two tracks are available for submissions. The academic track requires a full paper upon the acceptance of the abstract. The industrial track is to encourage experts and engineers working in the industry to present industrial innovative applications of hydrodynamics. For this track, an extended abstract is required but a full paper is not required.

## **BEST STUDENT PAPER AWARDS**

A price will be awarded to the best paper submitted by a student participant. The best papers will be judged by the Standing Committee. To enter the award selection, the student should be the first author and the oral presenter of the paper. The award winners will be announced at the conference dinner.

## **INTERNATIONAL STANDING COMMITTEE**

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Masashi Kashiwagi

Jiahn-Horng Chen  
Yonghwan Kim

Atilla Incecik  
Decheng Wan

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Hamburg University of Technology (TUHH)