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Invitation to STG-Colloquium

“Advanced Experimental and Computational
Methods for Investigation of Cavitating Flows”

19th June 2013

Subcommittee: „Ship hydrodynamics“

Chairman: Prof. Dr.-Ing. Moustafa Abdel-Maksoud

Place: Hamburg University of Technology (TUHH)
Building H/ Room H0.16
Schwarzenbergstr. 93 A
21073 Hamburg
<http://www.tu-harburg.de/tuhh/uni/lageplan.html>

Deadline for Registration: 14th June 2013. Registration Form is enclosed or by Internet: www.stg-online.org

Conference Fees (inclusive lunch and beverages):

Non-Members	Euro 180,-
Members	Euro 120,-
Pensioners	Euro 60,-
Student Non-Members	Euro 30,-
Student Members	Euro 15,-

Payable by bank transfer to the following bank accounts of Schiffbautechnische Gesellschaft e.V., Hamburg:

Commerzbank AG, Hamburg,	Nr. 09 505 714 00	BLZ 200 800 00
Postbank, Hamburg	Nr. 8829-204	BLZ 200 100 20

Please enter the name of the participant and the date of the event.
Cancellation after 14th June 2013 will be charged with the full price.

SCHIFFBAUTECHNISCHE GESELLSCHAFT e.V.

Dr.-Ing. Hermann J. Klein
Vorsitzender

Dipl.-Ing. Iwer Asmussen
Geschäftsführer

PROGRAM

“Advanced Experimental and Computational
Methods for Investigation of Cavitating Flows”

- 09:20 **Opening**
- Influence of Bubble Spectrum on Cavitation**
- 09:30 **Water Quality Measurements and Influence of Bubble Concentration on Cavitation**
Prof. Dr.-Ing. Nils Damaschke, Dr.-Ing. Willfried Kröger,
Institute of General Electrical Engineering, University of Rostock
- 10:00 **Influence of Bubble Spectrum on Cavitation in the K15A-Tunnel of the SVA**
Dipl.-Ing. Hans-Jürgen Heinke, Dipl.-Ing Heike Richter, Potsdam Model Basin
- 10:30 **Nuclei and Cavitation Induced Hull Pressure Fluctuations in Different Cavitation
Tunnels**
Dr.-Ing. Ernst-August Weitendorf;
Dipl.-Ing Patrick Schiller, Institute for Fluid Dynamic and Ship Theory, Hamburg
University of Technology; NN
- 11:00 **Coffee break**
- Modelling of Cavitation**
- 11:30 **An Advanced Euler-Lagrange Cavitation Model for Engineering Flows**
Dipl.-Ing Patrick Schiller, M.Sc. Bahaddin Cankurt, Dr. Sergey Yakubov,
Prof. Dr.-Ing. Moustafa Abdel-Maksoud, Prof. Dr.-Ing. Thomas Rung,
Institute for Fluid Dynamic and Ship Theory, Hamburg University of Technology
- 12:00 **Modelling of Sheet Cavitation Inception**
M.Sc. Martijn van Rijsbergen, Maritime Research Institute Netherlands, MARINE,
Wageningen
- 12:30 **Influence of Propeller Tip Roughness on Tip Vortex Cavitation**
Christian Krueger, Nikolai Kornev, Chair of Modelling Simulation;
Christian Semlow, Matthias Paschen, Chair of Ocean Engineering,
University of Rostock
- 13:00 **Lunch**
- Wake Scale Effects on Cavitation**
- 14:30 **A Cooperation of MARIN and HSVA on Cavitation Testing in Model Wake
Fields**
Dipl.-Ing. Christian Johannsen, Hamburg Ship Model Basin
- 15:00 **Wake Scale Effects on Propeller Sheet Cavitation**
Dipl.-Ing. Stephan Berger, Dipl.-Math. Maria Bauer, Dipl.-Ing. Markus Druckenbrod,
Prof. Dr.-Ing. Moustafa Abdel-Maksoud,
Institute for Fluid Dynamic and Ship Theory, Hamburg University of Technology
- 15:30 **Coffee break**
- Cavitation Dynamic and Erosion**
- 16:00 **On Cavitation-induced Dynamic Stall and Re-entrant Jets**
Dr. Martin Hoekstra, Maritime Research Institute Netherlands, MARIN, Wageningen
- 16:30 **Towards Simulation Based Cavitation Erosion Risk Assessment**
Prof. Dr. Rickard E Bensow, Prof. Dr. Göran Bark, Dr. Claes Eskilsson, Dept. Shipping
and Marine Technology, Chalmers University of Technology, Göteborg
- 17:00 **Closing of the colloquium**

Discussion after each lecture

Date:

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Registration to the STG-Colloquium

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June 19th, 2013

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(TUHH)
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21073 Hamburg
<http://www.tuhh.de/tuhh/lage/campusplan.html>

			Number of Persons	Amount in Euro
Conference Fees (inclusive Lunch and Beverages)				
Non-Members	Euro	180,-	_____	_____
Members	Euro	120,-	_____	_____
Pensioners	Euro	60,-	_____	_____
Student Non-Members	Euro	30,-	_____	_____
Student Members	Euro	15,-	_____	_____

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