

The eighth International Workshop on TWO-PHASE SYSTEMS FOR GROUND AND SPACE APPLICATIONS

will be held in

Bremen, Germany, September 16- 19, 2013.

The workshop will be followed by the International Topical Team meeting on “Two-phase Heat Transfer” on September 20, 2013.

Chair and scientific secretary: **Prof. Michael Dreyer**, Fluid Mechanics and Multiphase Flow Center of Applied Space Technology and Microgravity (ZARM), University of Bremen, Germany

Co-Chairs:

Prof. Peter Stephan

Chair of Technical
Thermodynamics at
Darmstadt Technical University,
Darmstadt, Germany

Prof. Haruhiko Ohta

Department of Aeronautics and
Astronautics, Kyushu University,
Japan

Prof. Oleg A. Kabov

Kutateladze Institute of
Thermophysics, Siberian Branch of
Russian Academy of Sciences,
Novosibirsk, Russia

Prof. Jian-Fu Zhao

National Microgravity
Laboratory, Chinese
Academy of Sciences, Beijing,
China

Workshop organizers:

- Center for Applied Space Technology and Microgravity (ZARM), University of Bremen, Bremen, Germany
- Technical Thermodynamics, Darmstadt Technical University, Darmstadt, Germany
- Kutateladze Institute of Thermophysics, Siberian Branch of Russian Academy of Sciences, Novosibirsk, Russia

Sponsored by: European Space Agency (ESA)

Workshop objectives: The conference is intended to provide a platform for researchers to exchange information and identify research needs in this important area encompassing several engineering, mechanical and physical disciplines. The non-exclusive list of topics for presentations is:

- Experiments in Microgravity
- Boiling, Evaporation and Condensation
- Films, Layers and Interfaces
- Physics of Contact Line and Wetting
- Microchannels and Minichannels
- Thermocapillary flows
- Spray, Jets and Two-Phase Flows
- Bubbles, Drops and Foams
- Electronics Cooling
- Properties of Vapour - Liquid - Solid interfaces

Scientific committee:

- Yoshiyuki Abe, AIST, Japan
- Vladimir Ajaev, SMU, USA
- Sergey V. Alekseenko, IT, Russia
- Alidad Amirfazli, UA, Canada
- Avram Bar-Cohen, UM, USA
- Dieter Bothe, TU Darmstadt, Germany
- Gian Piero Celata, ENEA, Italy
- Catherine Colin, IMFT, France
- Paolo Di Marco, UNIPI, Italy
- Michael Dreyer, ZARM, Germany
- Olga N. Goncharova, ASU, Russia
- Jungho Kim, UM, USA
- Qiu-Sheng Liu, IM, China
- Dmitriy Markovich, IT, Russia
- Olivier Minster, ESA
- Haruhiko Ohta, KU, Japan
- Eduard E. Son, JIHT, Russia
- Peter Stephan, TUD, Germany
- Lounes Tadrist, IUSTI, France
- John R. Thome, EPFL, Switzerland
- Jian-Fu Zhao, IM, China

Call for Abstracts: Our website <http://www.zarm.uni-bremen.de/ITTW2013> provides the latest information on the registration as well as instructions for the submission of abstracts together with a template. Abstracts should be submitted to the secretary via e-mail office@zarm.uni-bremen.de by **March 22, 2013**. Notification of presentation acceptance: no later than **April 12, 2013**.

Papers: Two topical issues will be published on the occasion of this workshop. All manuscripts will undergo a full peer review. And authors will be notified well before the workshop about the publication procedure and schedule.

Social program: At the ZARM reception, we will open the gates to one of Bremen's major space laboratories and visual landmarks – the 146 meter tall Drop Tower Bremen. All ITTW participants are cordially invited to attend this get-together close to the technical and research facilities of ZARM. The exclusive workshop dinner on Wednesday evening will take place in one of Bremen's most prominent and dignified restaurants.