



Kutateladze  
Institute of  
Thermophysics



## Sixth International Topical Team Workshop on TWO-PHASE SYSTEMS FOR GROUND AND SPACE APPLICATIONS

In memory of the 50<sup>th</sup> anniversary of the first space flight of the Russian cosmonaut  
Yuriy Gagarin on 12th April, 1961

will be held in

**Cava de' Tirreni (Napoli), Italy during September 25-28, 2011**

The Workshop will be followed by the International Topical Team meeting on September 29, 2011.

Workshop Chairs:

### Gian Piero Celata

Prof. Division of Advanced  
Technologies for Energy and Industry  
of ENEA, Rome, Italy

### Raffaele Savino

Prof. Università degli Studi di  
Napoli "Federico II", Dipartimento  
di Ingegneria Aerospaziale, Italy

### Oleg A. Kabov

Prof. and Co-Director of Heat  
Transfer International Research  
Institute of ULB and IT SB RAS,  
Belgium

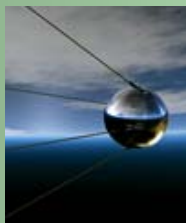
### Jean Claude Legros

Prof. Microgravity Research  
Center, Université Libre de  
Bruxelles, Belgium

Workshop Secretary: Dr. **Yulia Kabova, HTI**



International Space  
Station © NASA



The first Earth  
satellite

### Workshop organizers:

- Division of Advanced Technologies for Energy and Industry of ENEA, Rome, Italy
- Università degli Studi di Napoli "Federico II", Dipartimento di Ingegneria Aerospaziale, Italy
- Heat Transfer International Research Institute of ULB and IT SB RAS, Brussels
- Microgravity Research Center, Université Libre de Bruxelles, Brussels
- Institute of Thermophysics, SB RAS, Novosibirsk

**Workshop objective:** The workshop 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. Topics for the presentations include:

- 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

### Workshop Scientific Committee

- |                                    |   |
|------------------------------------|---|
| ▪ Yoshiyuki Abe, AIST, Japan       | ▪ Dmitriy Markovich, IT, Russia         |
| ▪ Sergey V. Alekseenko, IT, Russia | ▪ Olivier Minster, ESA, The Netherlands |
| ▪ Avram Bar-Cohen, UM, USA         | ▪ Haruhiko Ohta, KU, Japan              |
| ▪ Alberto Cavallini, UP, Italy     | ▪ Vladislav V. Pukhnachev, LIH, Russia  |
| ▪ Gian Piero Celata, ENEA, Italy   | ▪ Peter Stephan, TUD, Germany           |
| ▪ Catherine Colin, IMFT, France    | ▪ Lounes Tadrist, IUSTI, France         |
| ▪ Michael Dreyer, ZARM, Germany    | ▪ John R. Thome, EPFL, Switzerland      |
| ▪ Alexander M. Frank, ICM, Russia  | ▪ Charles A. Ward, UT, Canada           |
| ▪ Qiu-Sheng Liu, IM, China         | ▪ Jian-Fu Zhao, IM, China               |



Drop tower  
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Launch of Maser11

**Call for Abstracts:** Workshop website <http://hti.ulb.ac.be/> provides the latest information. Submit your abstracts, template and instructions are available on the website, and a registration form to the Workshop Secretary via e-mail [hti@ulb.ac.be](mailto:hti@ulb.ac.be), by **1 of February, 2011**. Notification of a presentation acceptance: no later than 1 of June, 2011.

**Call for Papers:** A special issue of Microgravity - Science and Technology will be published on the occasion of this workshop. The guest editors of this issue are: Oleg Kabov (Eurasia), Masahiro Kawaji (Canada), Jungho Kim (USA), Haruhiko Ohta (Japan), Jian-Fu Zhao (China). If you wish to publish in this special issue, please submit a paper (following the instructions for authors on the MGST website) through [www.editorialmanager.com/mgst](http://www.editorialmanager.com/mgst) (Choose the special article type of your manuscript: Topical Issue Two-Phase Systems Italy). The manuscript will undergo a full peer review and authors will be notified before 1 of June, 2011. Copies of the issue will be distributed to all participants of the workshop.