

SYMPOSIUM DATES AND LOCATION

After the success of the previous six Symposiums on Realistic Near-term Advanced Scientific Space Missions, organized by the International Academy of Astronautics and Politecnico di Torino which were held in Torino in June 1996 and in Aosta in July 1998, 2000, 2005, 2007 and 2009, a new four-days International Symposium on Outer and Extra-Solar Missions will be organized in Aosta in July 2011. Local supporting organization will be the Department of Mechanics of the Politecnico (Engineering School) of Turin. The Symposium will be held in Aosta, from 11 to 14 July 2011.

SYMPOSIUM GOALS

The goals of this new symposium on deep space missions are more ambitious than ever. Thanks to a renewed commitment of the International Academy of Astronautics, the areas of interest have been widened and a larger attendance is expected. To allow all authors to present their papers at ease the symposium will be longer, with the possibility of presenting some papers in parallel sessions, if needed.

The aim is to promote an exchange of ideas and experiences among those interested in the various scientific and technological aspects of outer solar system and interstellar exploration and to propose new missions.

Papers regarding the motivations and human aspect of deep space exploration are welcome, and papers dealing with advanced concepts and new ideas are encouraged.

Special results from this sixth symposium are intended to be submitted to the leading Space Agencies as Proposals for space missions to the outer Solar System and beyond which are feasible within near term technology.

SUPPORT TO PARTICIPANTS

The International Academy of Astronautics will provide a number of scholarships, covering mainly registration fees and luncheons for participants and speakers who have financial difficulties in attending such as for instance from African countries.

AREAS OF INTEREST

Scientific objectives and payload requirements
Present outgoing missions (Cassini, Rosetta, Voyager, etc.)
Precursor interstellar missions
Propulsion systems
Power generation
Trajectory design
Attitude dynamics
Navigation, guidance and control
Very deep space telecommunications
Sensors, detectors and lens systems
SETI and biosignatures from space
Medical problems of very long range spaceflight
Policy and international cooperation
Motivations and human aspects
Innovative concepts

Two dedicated sessions will be held on the following topics
Nanotechnology and robotics
Hybernation and long-range spaceflight

PAPERS FOR PRESENTATION

Abstracts of Papers intended for Presentation at the Symposium must be written in English on a single A4 page with the title, Author's name affiliation and complete address. Authors are encouraged to send abstracts by e-mail.

Abstracts must be mailed to:

Prof. Giancarlo Genta
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I-10129 Torino (TO), ITALY
Phone: ++39 011 564 6922
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E-mail: giancarlo.genta@polito.it
www.giancarlogenta.it

All intended Papers will be examined by an International Scientific Committee

HONORARY SYMPOSIUM CHAIRMAN

Dr. Leslie Shepherd

CHAIRMAN OF THE SCIENTIFIC COMMITTEE

Dr. Giovanni Vulpetti

CHAIRMAN OF THE ORGANIZING COMMITTEE

Prof. Giancarlo Genta

PRE-REGISTRATION FORM

to be mailed or e-mailed back to giancarlo.genta@polito.it

I plan to attend the Symposium

I plan to present a paper

Tentative title: _____

Please, send me further information

Name

Affiliation _____

Address _____

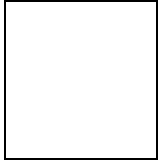
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DEADLINES

Submission of abstract May 15, 2011
Notification of acceptance May 30, 2011
Submission of camera-ready texts June 15, 2011

PROVISIONAL PROGRAMME

July 10 Preregistration and welcome party
July 11 Scientific sessions
Symposium dinner
July 12 Scientific sessions
July 13 (morning) Scientific sessions
(afternoon) Half-day sightseeing tour
(evening) Traditional dinner
July 14 Scientific sessions
Farwell party
July 15 Technical tours

SYMPOSIUM FEE

The Symposium Fee is 450 € entitling to receive a copy of the Symposium Proceedings (expected to be available at the symposium), and to attend the Symposium Dinner. For payments received by April 30, 2011 a discount of € 50 will apply.

Official language of the Symposium will be English.

A Program for Accompanying Parties will be arranged, if the number of participants will be sufficient.

SECRETARIAT

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INTERNATIONAL
ACADEMY OF
ASTRONAUTICS



POLITECNICO
DI TORINO



MISSIONS TO THE OUTER SOLAR
SYSTEM AND BEYOND

7th SYMPOSIUM ON
REALISTIC ADVANCED
SCIENTIFIC SPACE MISSIONS

PRELIMINARY ANNOUNCEMENT

AND

CALL FOR PAPERS

11-14 July 2011
Aosta, Italy

