SYMPHONY 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.

SYMPHONY 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
Dept. of Mechanics, Politecnico di Torino
Corso Duca degli Abruzzi 24
I-10129 Torino (TO), ITALY
Phone: ++39 011 564 6922
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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
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