

SYMPOSIUM DATES AND LOCATION

A new three-days International Symposium on the future of Space Exploration will be organized by the International Academy of Astronautics and Politecnico di Torino. The symposium will be held in Torino, on 27 – 29 June 2017.

SYMPOSIUM GOALS

The International Academy of Astronautics is fostering global cooperation in Human and Robotics Space Exploration since more than 5 decades.

The International Space Station program is expected to be completed by 2024 and there is no global program agreed for Human Space Flight.

The goals of this new Symposium are to present the final results of IAA activities related to programs beyond Low Earth Orbit and discuss the Moon Village vision. The Moon Village is considered by many as the logic step for humans beyond LEO and a stepping stone for Mars exploration

The aim is to promote an exchange of ideas and experiences, within the Space community, discussing the activities presented and proposing new concrete global space exploration activities involving established and emerging space agencies and industries.

Special effort will be devoted to involve young professionals and new space start-up companies related to exploration acting as a forum for fostering new initiatives

Papers related to Technology, Science, Programmatics, Economics, Ethical and Cultural aspects of the Moon Village and beyond are solicited, papers dealing with advanced concepts and new ideas are encouraged

AGENCIES/INDUSTRIAL PARTICIPATIONS

Space Agencies/Industries participants are solicited to present their concept and programs for supporting the Moon Village vision as well as to join the discussions on new global programs beyond LEO including the IAA proposals

AREAS OF INTEREST

- **Technology**
Propulsion and power generation
Mission and trajectory design
Attitude dynamics
Navigation, guidance and control
Very deep space telecommunications
Sensors, detectors and lens systems
Precursor interstellar missions
Nanotechnology and robotics
Innovative concepts
Regenerative life support systems
ISRU systems
Planetary protection
Telepresence
- **Science**
Scientific objectives and payload requirements
Present outgoing scientific missions
Biosignatures from space
Medical problems of very long range spaceflight
Hybernation
Planetary environments
- **Programmatics**
Cooperation schemes and roadmaps
Reporting of the ongoing IAA Study Groups
Role of the ISS in space exploration
- **Motivations**
Motivations and human aspects
Policy and international cooperation
Ideas from science fiction to technology
- **Economics**
Funding aspects and economic sustainability
Space mineral resources
Space resources exploitation
- **Ethics**
Ethical aspects of long range exploration
From exploration to colonization
Ethical aspects of terraforming
Robot ethics
Adaptation of humans to new environments
Experience of 10 Years of ISS permanent activity
- **Cultural**
Multicultural aspects of human space exploration
Outreach aspects of Space Exploration
Access to space for emerging countries

CO-CHAIRS

Les Johnson

Giuseppe Reibaldi

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LOCAL ORGANIZATION COMMITTEE

Sabrina Corpino

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Nicole Viola

VENUE

Politecnico di Torino

Corso Duca degli Abruzzi 24

Torino

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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E-mail: conference@iaaemail.org

<http://spaceexplor.iaaweb.org/>

All intended papers will be examined by an International Scientific Committee

DEADLINES

Submission of abstract Extended April 15, 2017
Notification of acceptance April 25, 2017
Submission of camera-ready texts May 31, 2017

SYMPOSIUM FEE

The Symposium Fee is 450 € entitling to receive a copy of the Symposium Proceedings (expected to be available at the symposium). For payments received after April 30, 2017 a surcharge of €80 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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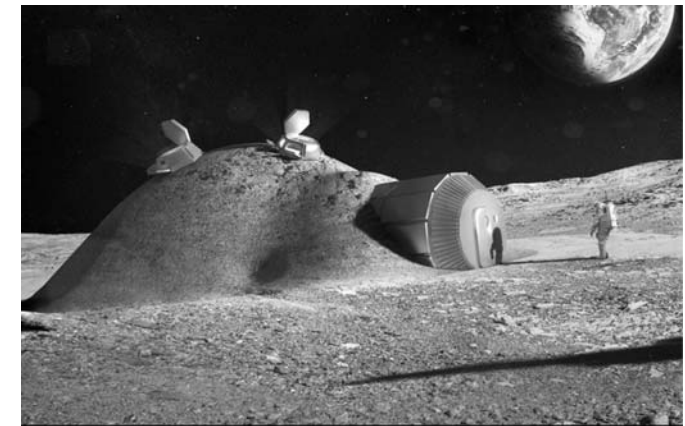
POLITECNICO
DI TORINO



10th IAA SYMPOSIUM ON THE FUTURE OF SPACE EXPLORATION

TOWARDS THE MOON VILLAGE AND
BEYOND

***SAVE THE DATE
and
PRELIMINARY CALL FOR PAPERS***



27 – 29 June 2017

Torino, Italy