

# CONFERENCE REPORT

## 12TH IAA SYMPOSIUM ON THE FUTURE OF SPACE EXPLORATION 9-11 JUNE 2025

BY GIUSEPPE REIBALDI/GIANCARLO GENTA



After a gap of more than 5 years, mostly due to the COVID pandemics, the 12th IAA Symposium on the Future of Space Exploration was held in Torino (Italy), on June 9-11, 2025.

The symposium, jointly organized by the International Academy of Astronautics and the Italian Association of Aeronautics and Astronautics, under the patronage of the Italian Space Agency and the Politecnico di Torino, took place at the Thales Alenia Space facility (first day) and at the Politecnico di Torino Architecture campus at the Valentino Castle (two following days).

This is the first time that this Symposium is organized by the Italian Association of Aeronautics and Astronautics (AIDAA) and the professionalism of the organization was evident in the selection of the logistics as well the number of participants.

The participants were in excess of 100 and this established a record with respect to the previous editions. The number of countries of the participants were 16, including Japan, US and many others, including representatives of the United Nations

As in the previous editions of the symposium, along with papers dealing with current technologies and short-term developments, also more speculative subjects dealing with long terms innovations – always remaining in the realm of realistic science and exploration space missions – were dealt with.

However, the selected symposium papers included mostly lunar exploration, as was expected owing to the commitments of many agencies and industries to return to the Moon in a reasonably short time. Topics related with propulsion, astrodynamics, attitude control, and instrumentation were presented along with others dealing with ethical, legal and economical questions related to space exploration.

Two round tables took place related respectively to the medium and long term of the Space Exploration:– one on *Sustainable Lunar Exploration and Utilization: Challenges and Opportunities* and one on *Deep space exploration* – took place together with the presentation of 10 keynote speeches and 40 papers.

The 13<sup>th</sup> Symposium, is planned to take place in 2027 in Turin.

**IAA**  
INTERNATIONAL ACADEMY OF ASTRONAUTICS

**AIDAA**  
ASSOCIAZIONE ITALIANA  
DI AERONAUTICA E ASTRONAUTICA

**FSE**  
12<sup>th</sup> IAA SYMPOSIUM ON  
FUTURE SPACE EXPLORATION  
TURIN • ITALY • 9-11 JUNE 2025

The **International Academy of Astronautics (IAA)** has promoted global cooperation in **human and robotic space exploration** for over five decades.

Supported by the **Italian Association of aeronautics and astronautics (AIDAA)**, this Symposium will present IAA's latest results on missions beyond LEO, starting with the **Moon Village**, a key step toward **Mars** and **deep space**.

The event brings together space **agencies, industries, start-ups**, and **young professionals** to exchange ideas and launch new global initiatives.

Science Technology Motivations  
**SPACE EXPLORATION**  
Economics Policy/Law Ethics  
Cultural Programmatic

**IMPORTANT DATES**  
ABSTRACT SUBMISSION -----March 29<sup>th</sup>, 2025  
NOTIFICATION ACCEPTANCE ----- Aprile 29<sup>th</sup>, 2025  
EARLY BIRD REGISTRATION ----- May 6<sup>th</sup>, 2025

**VENUE**  
**POLITECNICO DI TORINO**  
Castello del Valentino  
Viale Mattioli, 39  
Torino

**ALTEC**  
Aerospace Logistics  
Technology Engineering  
Company  
Corso Marche, 79  
Torino

**MORE INFO**

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