

# SUMMARY

## of the 7th International Conference «Space Technologies: Present and Future»



The 7th International conference “Space Technologies: Present and Future” was held in Yuzhnoye State Design Office (Dnipro, Ukraine) on May 21–24, 2019. The IAA Regional Office in Ukraine and Yuzhnoye SDO organized the conference. The event was dedicated to the 65th anniversary of Yuzhnoye State Design Office (founded on 10.04.1954).

During its life, Yuzhnoye SDO has developed generations of launch vehicles, spacecraft, and rocket propulsion systems, which has gained the company a firm position in the rocket and space industry and on the international market of space services.

Holding of a scientific forum at this level in Yuzhnoye SDO, a leading company of the Ukrainian space industry, made it possible to create an especial atmosphere as well as to promote and consolidate creative activity and energy of participants.

More than 530 scientists and specialists from twenty countries attended the conference. Eleven speeches in a plenary session and 310 presentations in seven thematic sessions were introduced to the participants. The conference included a round table on Yuzhnoye satellite technologies, round table for presidents of Ukrainian institutions of higher education, meeting of the board of COSMOS Association of High-Technology Companies and Organizations of Ukraine, and the second coordination meeting of representatives of Yuzhnoye SDO and the National Academies of Sciences of Ukraine and Belarus in accordance with the General agreement on scientific and engineering cooperation in space industry.

Advanced technologies in space technology subsystems and assemblies design and manufacturing as well as the development of pilot production in Yuzhnoye were given special attention. The focus was on issues concerning the liquid-propellant engine parts and assemblies manufacturing by the method of selective laser melting, manufacturing of rocket equipment structural elements from polymer composites, international cooperation optimization, and new aspects of building the infrastructure of a research and production base on the Moon.

The seventh thematic session “Moon Village Association and Exploration of the Moon” was new for the conference and held for the first time.

It was pointed to the relevance and effectiveness of joint researches carried out in accordance with the General agreement signed in Kiev on May 30, 2012, between Yuzhnoye SDO, the IAA, and the National Academy of Sciences of Ukraine, and the ways of expanding these researches were recommended.

The conference made the point that consolidation of efforts of the world’s space engineering companies and enthusiastic scientists is essential for research and exploration of deep space as well as for prediction and prevention of global natural disasters and phenomena related to space and human activity.

It is advised to keep on the practice of holding international conferences and meetings of research specialists under the aegis of the IAA. The 8th conference is scheduled for May 2021 in Dnipro.

Approved at the closing session  
of the 7th IAA International Conference  
«Space Technologies: Present and Future»

**DNIPRO**  
**May 24, 2019**