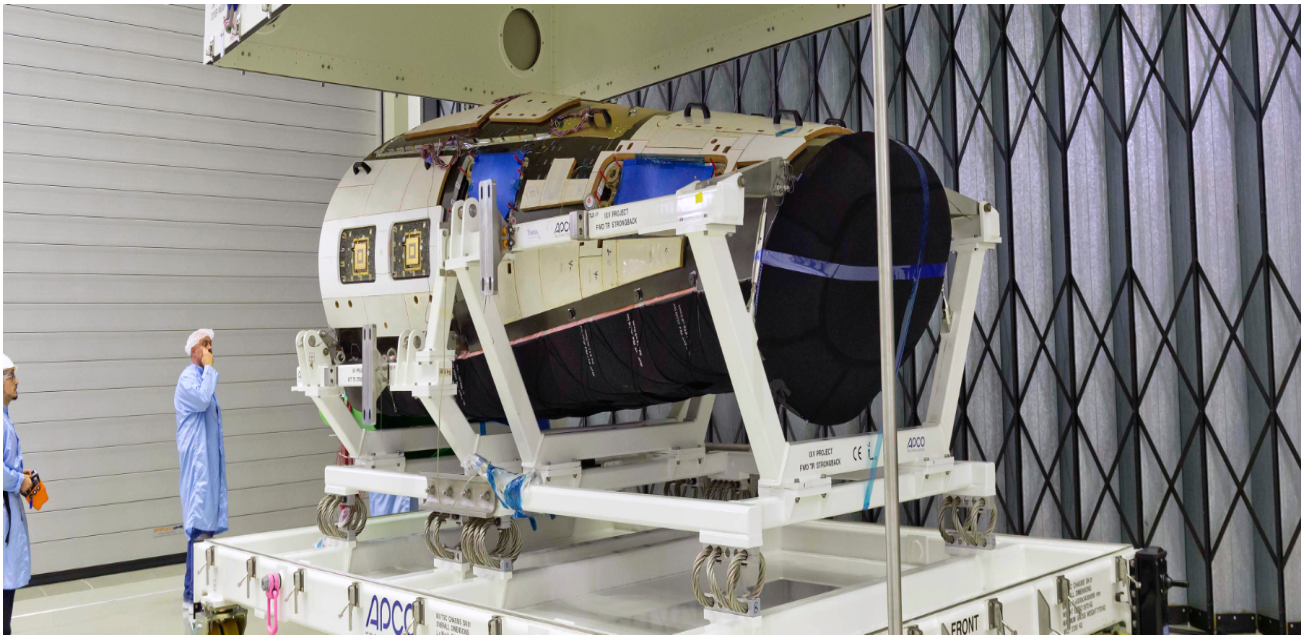

International Conference on Flight Vehicles,
Aerothermodynamics and Re-entry Missions & Engineering
FAR 2019
30 September - 3 October 2019, Monopoli, Italy
esa



The **International Conference on Flight vehicles, Aerothermodynamics and Re-entry Missions and Engineering** (FAR) is the natural outcome of the successful series of Symposia on Aerothermodynamics for Space Vehicles, the Workshops on Thermal Protection Systems and other international events organised by ESA in the last few years in the field of (Re)-entry and new Vehicles design and engineering.

In answer to the growing request of innovation and competitiveness dictated by the new space arena, the FAR conference aims at providing Space Agencies, Industry, Organizations, Universities and Research Institutes with a forum of excellence in the area of flight vehicle design, aerothermodynamics, thermal protection, (re-)entry missions and their engineering processes.

With an European initiative and accent, the events aims to attract a fully international span of participants, with the target to create a suitable forum of global exchange capable to support and boost steady progress for future space transportation and exploration vehicles and services.

Further to the specific subjects above indicated, the new conference format will be organised along several technical streams, encompassing the whole spectrum of institutional and commercial applications and services for expendable and re-usable flight vehicles in Earth or planetary atmospheres and surroundings.

In addition to the latest advances in those fields, FAR is also devoted to software and ground validation tools. Specific attention will be dedicated also to approved and proposed in-flight demonstrators ideas and projects.

The conference is organized with the collaboration of the Agenzia Spaziale Italiana (ASI), the Centre National d'Études Spatiales (CNES) of France, the Deutsches Zentrum für Luft und Raumfahrt (DLR), the United Kingdom Space Agency (UKSA), the Japan Aerospace Exploration Agency (JAXA) and the National Aeronautics and Space Administration (NASA) .

The fields covered include, but are not limited to:

- The architecture design and analysis of current and future space transportation and exploration vehicles;
- Flight vehicles engineering;
- Flight physics, aerodynamics, thermodynamics and fluid dynamics, re-usability, demisability, hypersonic flight in atmosphere;
- (Re-)entry engineering and technologies, including TPS and decelerators;
- Logistics, infrastructure and services enabling and supporting new transportation and exploration concepts;

At the conference, the participants will also showcase the latest architecture designs, analysis and technical assessments with the aim to promote the exchange of ideas and the identification of new trends and required developments.

The conference offers an intensive 5-days complete program of papers, lectures, exhibitions, plennaries, etc. It will allow 360 degrees exposure to all disciplines of flight vehicle engineering and specially on aerothermodynamics in space.

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