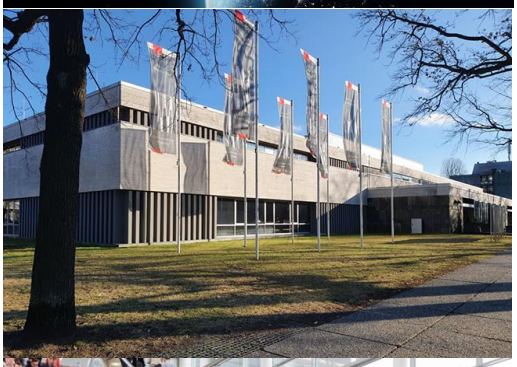
AACII Aerospace Mobility News 03/2022

Countdown for the AACII congress



Only a few weeks left until the AACII opens its doors to the world

After long and thorough preparation, the time has come: The AACII starts on July 3rd with numerous events related to aerospace and aviation. The congress offers interesting specialist lectures and an exhibition with innovations: From the **Aero+Space Garden** with lectures at theme tables on July 3rd, to **Space Breakfast, Aviation Lunch and Innovation Night** on July 4th, the **Gravity Free Gala Dinner** at the Nuremberg Imperial Castle on July 5th, or the **Hightech Tour** on July 6th – hardly any other event offers so many opportunities to present developments and achievements to decision-makers of leading companies in the industry. In addition, **B2B meetings** can be scheduled during the congress day, which also offer the chance to explore opportunities for cooperation. In any case, the AACII team looks forward to designing your tailor-made concept for your success at the congress. For this, please write us at info@aacii.space.

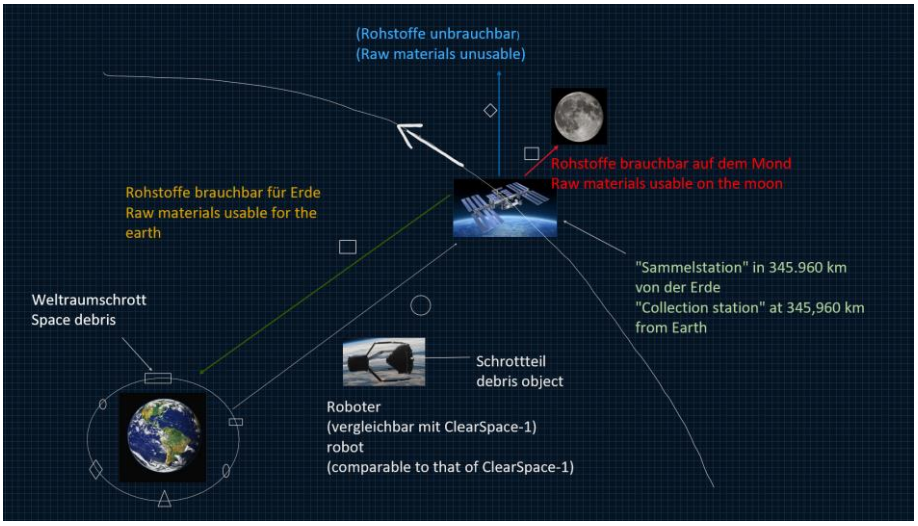
Limited exhibition space may still be booked and is available on a **first come, first served** basis. Registrations are accepted at welcome@aacii.space.

As always, you can find further details on the programme, travel, and accommodation options at www.aacii.space.

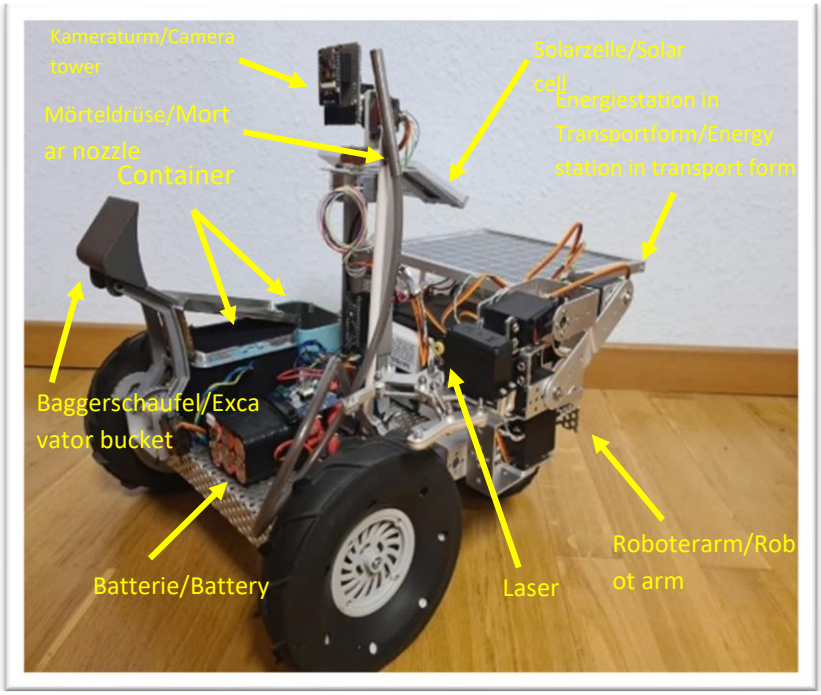
We look forward to personally welcoming you soon.

Your AACII team

Editor in Chief: Dr. Wolfgang Mayer, Coordinator: Karin Köstler, Tec, IT: Robert Hempfling, Science: Guenay Can, Economy Industry: Valentin Schalit, Social Media: Aleyna Durkut Engin, European Aerospace: Sonja Fraas, Web: Michael Postel Prröster
Spittlertorgraben 15, D 90429 Nuernberg Tel: 0170 5546554 Email: news.mobility@aero.space. USTNR DE 24028130747 ID 15801735008



Project by Patricia Oerther, supported by VDI research center



Project by Goran Mirkov, supported by VDI research center

VDI student projects show what mankind can achieve in space

At the moment, the only bet is that the space junk burns up in the earth's atmosphere. However, this means that the raw materials used in the scrap parts are lost.

The student project of the VDI student research center shows how space debris is brought to a "collection station" by means of a robot. After sorting and cataloging the collection station, the recyclable materials in the space junk are dropped on the moon, e.g., for the construction of a lunar base.

The next project presents how resources can be extracted on Mars in the future to enable missions on the red planet.

The Mars Rover collects ice and Martian sand with the excavator shovel and stores it in two separate containers.

There the ice is heated until it is liquid and is then mixed with the sand via a worm pump. The mixture forms the building material, which leaves the rover through the nozzle and solidifies outside. Now it can be used to build objects using the 3D printing process.

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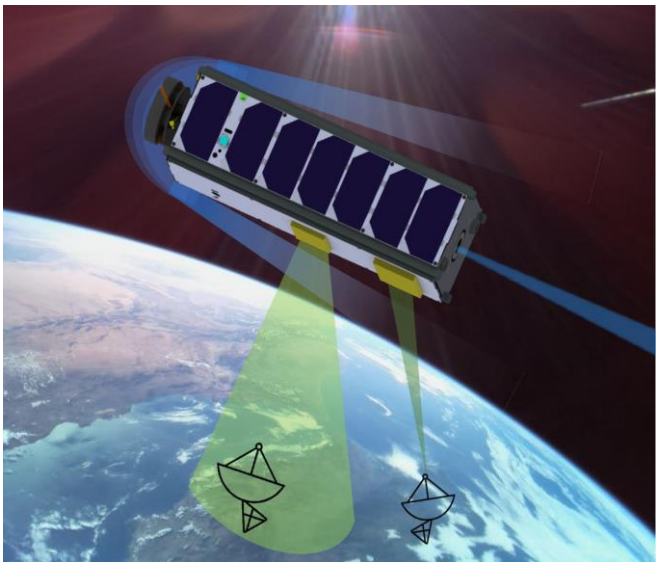
Aerospace international

Paris Space Week is now partner of the AACII Congress

The Paris Space Week taking place for the 10th time next year is now an official partner of the AACII Congress. This enables both sides to benefit from synergies and to position the topic of aerospace even more firmly in the heart of Europe. Many topics that are central to the AACII Congress will also be taken up and further promoted by Paris Space Week in the coming year. These include the areas of sustainability in space, WomenPower, and the commercialization of space. Other focal points are satellites, propulsion technologies, ground systems and space apps. During the visit of AACII CEO Ulrike Trapp in Paris, a cooperation and regular exchange was agreed upon in order to coordinate the content focus and organization of the two events. The management of Paris Space Week will be personally represented at the AACII on July 5th and 6th, 2022, also as an exhibitor.

Technology in space



Prof. Dr. Klaus Schilling, one of the founders at the start-up S^4 – Smart Small Satellite Systems GmbH recently announced a breakthrough in satellite technology. Their new development, LoLaSat (Low Latency communication Satellite), won a European-wide competition of ESA for Very Low Earth Orbit (VLEO) telecommunication satellites. LoLaSat is capable of orbiting the Earth surface at an altitude of 300 km only. This gives an important advantage for 5G- telecommunication in which delays of data transfers by fractions of a second play a crucial role. With the lower distance compared to traditional geostationary satellites (36.000 km altitude), LoLaSat can cover wider areas and ensure safe car or drone autonomous driving, emergency support actions as well as fast online gaming and high frequency trading of shares.

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