



AACII AEROSPACE MOBILITY NEWS 02/2024

AERO FRIEDRICHSHAFEN SHOWCASES MOST RECENT RESEARCH ACHIEVEMENTS



The Aero Messe Friedrichshafen has been known as an excellent platform for general aviation ever since Count Ferdinand von Zeppelin developed a steerable airship.

The AACII Expert Talk Aviation Aerospace Interdisciplinary International took place there in two panels moderated by Ulrike Trapp AACII. Tim Sowa, Director of Rolls-Royce company ATT Managing Technical and Operations Aerospace Transmissions Technologies Friedrichshafen in this joint venture of Liebherr-Aerospace and Rolls-Royce, kicked off the dialogs - Science and Industry - with a talk on "Transmission Technology for New Aircraft Engines".

Prof Dr Philipp Krämer DHBW, Baden-Württemberg Cooperative State University, which is the first state decentralized university in Germany for dual education with 34,000 students, explained the "Partnership of academia and industry for future aircraft engines" using the example of the research cooperation with the Vienna University of Technology. Prof. Dr. Michael Weigand TU Vienna University of Technology, Department of Machine Elements and Aircraft Transmissions, explained the "Dynamic Simulation of a Rotorcraft Main Transmission with Continuous Variable Ratio" and "Improved rotorcraft drivetrain Safety and related research at TU Vienna". In specialist circles, this is described as a new dimension for eco-friendly aviation.

AACII EXPERT TALK VIENNA ON CLIMATE-FRIENDLY AIRPLANES AND PROPULSION SYSTEMS



AACII and Technical University of Vienna hosted a meeting with high-caliber presentations on future climate-friendly aircraft and propulsion systems and the opportunities for Austria and TU Wien in this field. The content and objective were, on the one hand, networking at a high level and keynote lectures on transmissions for aviation such as rotorcraft, geared turboprops, transmissions for new applications such as hydrogen-based fuel cell electric engines, research and development of new aircraft and components at TU Wien. An outlook was given for the coming years, which will be characterized by the challenge of urgently needed sustainable solutions on the one hand and relatively long development and certification times on the other.

In the impressive rooms of the Vienna University of Technology, Ulrike Trapp from the AACII welcomed high-ranking speakers who presented a new dimension of eco-friendly innovations for aviation. Prof. Dr. Martin Berens, TU Vienna Future propulsion and transmission systems, Prof. Dr. Michael Weigand / Prof. Dr. Carsten Gachot / Ass. Prof. Dr. Helmut Mad, TU Vienna with tribological solutions for new aircraft and components. After a lively discussion, the numerous participants also visited the laboratory rooms of the Elements and Transmission for Aviation machines.

AACII EXPERT TALK MEETS PCIM: MODERN ELECTRONICS SOLUTIONS BY FRAUNHOFER



Photo top left: Hidden in the housing is the refrigeration technology required to transport the hydrogen for new forms of propulsion

Center photo: Propeller that will be powered by hybrid electricity in the future.

Photo right: Fraunhofer IISB aircraft model, which will also be exhibited at the AACII Congress 2025.

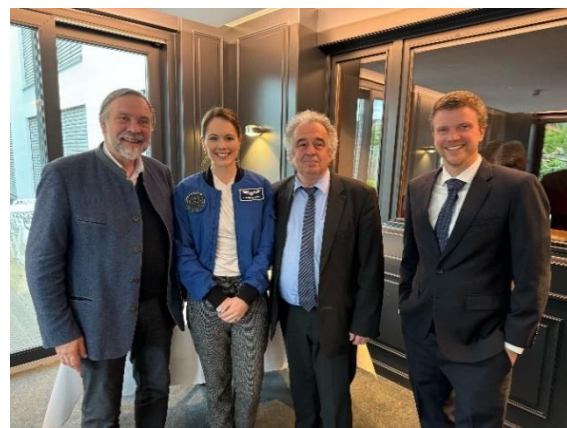
PCIM Power Conversion and Intelligent Motion Nuremberg is one of the largest trade fairs for power electronics. The AACII Expert Talk took place at the stand of the Fraunhofer IISB Institute for Integrated Systems & Device Technology. Florian Hilpert explained the latest developments with objects that are real highlights. These include the Evolonic project and the innovative drone for forest fire detection.

President Renaud Urli of the ETTC European Society of Telemetry and Airbus Helicopters called these impulses important for the future in the field of aviation during the tour of the stand with Ulrike Trapp AACII and Dr Wolfgang Mayer, Head of Communication in the group of experts.

THE FIRST ASTRONAUT FROM FRANCONIA VISITS UNIVERSITY OF WÜRZBURG

Prof Dr Klaus Schilling recently presented Katherine Bennell Pegg as the first astronaut who studied at the Franconian University of Würzburg to successfully complete basic training at the European Space Agency ESA.

Pictured here with Dr. Fritz Merkle, President of IFR Internationaler Förderkreis für Raumfahrt/ International Group of Aerospace Promoters and husband Campbell Pegg.



ETTC EUROPEAN TEST TELEMETRY CONFERENCE WITH EXPERT SPEECHES AT THE PCIM



Renaud Urli, President of the ETTC European Test and Telemetry Conference ETTC 2024 at PCIM Nuremberg, kicked off an exciting series of presentations with highlights from the entire sector. The aircraft from his Airbus eXpert Flight Test Instrumentation - ETXMI division received a great deal of attention. Here in conversation about the AACII, which will take place on February 12, 2025 in Nuremberg.

US JOURNALIST UND THE AACII MOTTO „TOGETHER FOR A BETTER WORLD” AT THE AACII CONGRESS



US journalist Sam Koltinsky, here in an interview with Ulrike Trapp, sees an important message from the AACII with the motto “together for a better world” at the Nuremberg Aerospace Congress on February 12, 2025 - also for the large companies traveling to Nuremberg from the USA.

PARIS SPACE DAYS PRESENT RESEARCH OF THE IPSA NEW GENERATION

The Institut Polytechnique de Science Paris, IPSA presented innovative research objects at the Paris Space Days PSW. The commitment of Prof. Anica Lekic led the students to achieve these results, which everyone marveled at. This is the future for everyone, that is the motto of IPSA.



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SIMON MARIUS — THE ASTRONOMER FROM FRANCONIA SHAPES HIS TIME



Ing Pierre Leich. Information can be found at www.simon-marius.net under "Video".
Photo: Johannes Ebersberger

As a Franconian astronomer and mathematician, Simon Marius was one of the first to observe the heavens with a specially developed telescope at the same time as Galileo Galilei. He used it to discover the four largest moons of the planet Jupiter. The conference "Simon Marius and the change in the view of the world" inspired the experts at the Ansbach Onoldia with lectures by Dipl

AEROSPACE HISTORY IN THE NÜRNBERG FEUCHT MUSEUM



Participants from all over Germany came to the Pfinzingschloss for the conference on the history of space travel at the Nuremberg-Feucht Space Museum

From left: Mr. Werner Klein member of the IFR Internationaler Förderkreis für die Raumfahrt / , Director Karlheinz Rohrwild Space Museum Nuremberg Feucht, DLR German Aerospace Center Markus Rehberger, AACII Astrokid Leo Johann Müller.



Photo at the rocket. From the right Mr. Werner Klein member of the IFR Internationaler Förderkreis für die Raumfahrt, Ulrike Trapp AACII Luft-Raumfahrtkongress Nürnberg, AACII Astrokid Leo Johann Müller.

AACII ASTROKIDS WITH WORKSHOP AND ROCKET LAUNCH IN NUREMBERG



"The future begins today with the next generation", the AACII Astrokids said at the workshop with a perspective for the AACII Congress Nuremberg on February 12, 2025. The rocket launch with the model of the type "The

Panther" took place north of Nuremberg in Tauchersreuth. The flight went high into the sky and returned with small parachutes with pinpoint accuracy. The eager young crew and their parents reported "Happy Rocket Landing". Some thoughts wandered to Kourou, French Guiana, from where the European Space Agency ESA sends the "big brothers" of the Tauchersreuth rockets into space.

EVENT CALENDAR

JULY 2024

13	21	COSPAR Scientific Assembly	Busan, KOR
22	26	International Airshow	Farnborough, GBR
29	30	ICAEAT Engineering & Turbulence	Istanbul, TUR
30	30	Aircraft Eng. and Flight System Conference	Milan, ITA

AUGUST 2024

21	21	ICMAE Mechanical & Aerospace Engineering	Prague, CZE
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SEPTEMBER 2024

02	02	Horizons Conference	Kairo, EGY
03	05	Commercial UAV Expo	Las Vegas, USA
10	11	Aerospace Test & Development Show	Toulouse, FRA
16	19	IST World Congress	Dubai, UAE
16	20	World Space Business Week	Paris, FRA
18	19	Industry Space Days	Noordwijk, NED
24	26	INTERGEO	Stuttgart, GER

OCTOBER 2024

08	10	World Aviation Festival	Amsterdam, NED
10	11	Black Forest Space	Offenburg, GER
14	18	International Astronautical Congress IAF	Milano, ITA
16	19	Japan International Aerospace Exhibition	Tokio, JPN
21	24	International Telemetry Congress	Glendale, USA
21	24	Silicon Valley Space Week	Mount. View, USA
22	24	Dubai Heli Show	Dubai, UAE
22	24	MRO Aviation Week Europe	Barcelona, Spain
23	25	Munich Space Summit	Munich, GER

NOVEMBER 2024

04	07	European Rotors	Amsterdam, NED
11	12	Saudi Airport Exhibition	Riyadh, KSA
13	15	Bahrain International Airshow BIAS	Sakhir, BHR
18	21	NAAA Aviation Expo 2024	Fort Worth, USA
19	20	Aerospace Tech Week Americas 2024	Atlanta, USA
19	21	Air Expo Abu Dhabi	Abu Dhabi, UAE
26	27	Aviation Forum	Munich, GER

FEBRUARY 2025

12	12	AACII International Interdisciplinary	Nuremberg, GER
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