

20 May 2026

18:30 21:30 Welcome Cocktail & Finger Food

21 May 2026

08:00 09:00 Registration

MARTA Conference Room	09:15 - 09:50	READ/PSAA Chair - Tomasz Goetzendorf-Grabowski	Welcome Speech Opening Session
		READ/UKE Chair - Andrea Alaimo	
		UKE Authority	

Plenary Lecture

Conference Room	10:00	10:30	Tomasz Goetzendorf-Grabowski	A Brief History of the READ Conference – Successes and Challenges
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10:30 10:50 Coffee break

		Session 1/1	Chair:	Fluid Dynamics
Room 1	11:00	11:20	Katarzyna Surmacz	An aerodynamic investigation of rocket static stability
	11:20	11:40	Sebastiano Geremia Isidoro Marci	Numerical Simulation of Blast Waves from Hydrogen–Air Detonations Triggered by Tank Failure
	11:40	12:00	Łukasz Kiskowski	Numerical and experimental investigation of LEX and LEVCON on fighter aircraft aerodynamics
	12:00	12:20	Katarzyna Kania	Aerodynamic hysteresis at high sideslip angles for an unconventional fixed-wing UAV
	12:20	12:40	Katarzyna Kania	A multi-fidelity aerodynamic analysis of a solar powered UAV

		Session 1/2	Chair:	Flight Dynamics
Room 2	11:00	11:20	Wojciech Grendysa	Modelling and simulations of aircraft autorotation.
	11:20	11:40	Agnieszka Kwiek	Rocket plane trajectory simulation in emergency flight conditions
	11:40	12:00	Grzegorz Ptasinski	Formation flight of UAVs – state of the art query
	12:00	12:20	Elisa Testaquatra	A computational framework for evaluating the longitudinal trim of highly flexible aircraft
	12:20	12:40	Łukasz Kiciński	Model Predictive Control Tuning for an Unmanned Helicopter Using Particle Swarm Optimization

12:50 13:50 Lunch break

Plenary Lecture

Conference Room	14:00	14:30	Erasmus Carrera	Aerospace Italy 2024
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		Session 2/1	Chair:	Aircraft Design
Room 1	14:40	15:00	Andrzej Krzysiak	The Concept of Flying Platform
	15:00	15:20	Agnieszka Kwiek	Numerical aerodynamic optimization with stability constraints of Martian aircraft
	15:20	15:40	Amdrzej Tarnowski	Multi-Vehicle Aerial Platform (MVAP)
	15:40	16:00	Stanisław Gajek	Manoeuvre Classification for Utility-Class Sailplanes Based on Data from Inertial Navigation Systems

		Session 2/2	Chair:	Structures and Materials
Room 2	14:40	15:00	Pamela Bugała	Comparison of Experimental Results and FEM Simulations for a High-Altitude Aircraft with a Joined-Wing Configuration
	15:00	15:20	Jaroslav Mileczarczyk	Description of the method for obtaining similarity of the structure stiffness on the example of building a dynamically scaled model of the wings of a light aircraft
	15:20	15:40	Antonio Fontanella	High-Fidelity Nonlinear Analysis of Wingbox Structures: Resolving Nastran-CUF Discrepancies through Refined 1 3D Modeling
	15:40	16:00	Martina Sartori	Numerical Evaluation of Curing-Induced Deformations in Composite Stiffened Panels

16:10 16:30 Coffee break

Gala Dinner

22 May 2026

08:00 09:00 Registration

		Session 3/1	Chair:	Aeroelastic and Morphing Structures
Room 1	09:00	09:20	Robert Rogólski	Finite element model of a light airplane with embedded control mechanisms for parametric analysis of free vibrations and flutter
	09:20	09:40	Andriy Payensky	High-Fidelity Static Aeroelastic Simulation of Wing Using a Coupled CFD-FEM Solver
	09:40	10:00	Lukáš Dubnický	Optimization and Experimental Development of a Morphing Flaperon for Small UAVs Using Fused Deposition Modeling
	10:00	10:20	Michał Szcześniak	Measurement of normal modes of the main rotor blade of an unmanned helicopter using contact and non-contact methods

		Session 3/2	Chair:	Advanced Materials
Room 2	09:00	09:20	Mariusz Szewczyk	Experimental study of thermal diffusivity of Inconel 625 alloy at higher temperatures
	09:20	09:40	Giuseppe Mantegna	A Preliminary Mechanical Study of Mapped Modified Lattice Cells for Axisymmetric Problems
	09:40	10:00	Valerio Acanfora	Hybrid Additive Wing Structures with Integrated Metallic Lattices for Impact Resistance
	10:00	10:20	Mariusz Kowalski	Mechanical Characterization of Forged Carbon Fiber Composites for Advanced Aviation Components

Plenary Lecture				
Conference Room	10:30	11:00	Andrzej Krzysiak	One hundred years of the Institute of Aviation.

	11:00	11:20	Coffe break
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		Session 4/1	Chair:	Education in Aircraft Design
Room 1	11:30	11:50	Maciej Zasuwa	Use of a Flight Simulator in Higher Education: A Case Study of a Boeing 737 Platform at Warsaw University of Technology
	11:50	12:10	Piotr Grzybowski	Application of the V-Model in Assessing the Feasibility of Complex Multimodal Projects under Educational Limitations
	12:10	12:30	Emanuele Caligari	VR-Based Flight Simulation for Structural Design Education
	12:30	12:50	Stefano Carletta	Design and Calibration Runs of the Facility for Education and Research on Re-entry Instability
	12:50	13:10	Eliza Łapińska	Lessons learned from participation in the European Rocketry Challenge 2025 competition
	13:10	13:30	Zdobysław Goraj	The Art of Design in Warsaw – A Blend of Tradition and Innovation

		Session 4/2	Chair:	Systems & Subsystems Design
Room 2	11:30	11:50	Miroslav Cervenka	Next-Generation Aerospace Actuation: A Solid-State Architecture for Resilient Position Measurement
	11:50	12:10	Sergio Bagarello	An overview of hydrogen storage for airborne applications
	12:10	12:30	Emeka Chijioke	Assessing the Impact of Actuator and Rotor Dynamics on Energy-Optimal Electric Rotorcraft Missions
	12:30	12:50	Andreas Strohmayr	A European scaled flying testbed for the integration of novel powertrain components
	12:50	13:10	Carmelo Vindigni	Assessing flight task related workload prediction across simulation fidelity levels
	13:10	13:30	Carmelo Vindigni	Quantifying Pilot Workload in Flight Training via Gaze Behavior and HRV Analysis

	13:30	14:30	Lunch break
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Conference Room	14:30	Student paper jury		
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Conference Room	15:00	Closing Ceremony		
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		Guided tour of Enna historical center		
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23 May 2026

09:00 12:00 UKE Laboratory tour