

15th EASN International Conference on Innovation in Aviation & Space towards sustainability today and tomorrow

Final Detailed Agenda

DAY 1 | 14.10.2025

**15th EASN International Conference on
Innovation in Aviation & Space towards sustainability today and tomorrow**

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DAY 2 | 15.10.2025

8:30 - 17:30	Registration							
ROOM	A-021							
9:30 - 10:00	KEYNOTE SPEECH Shaping the aviation of tomorrow by Dr. Markus Fischer German Aerospace Center (DLR), Divisional Board Member for Aeronautics Prof. Andreas Strohmayer Conference co-Chairman							
Chaired by	Prof. Andreas Strohmayer Conference co-Chairman							
10:00 - 10:30	Coffee Break							
ROOM	A-021	A-003	A-004	A-005	A-006	A-025	A-026	A-027
Session Title	Digitalization of Manufacturing, Sustainable Manufacturing and MRO	Propulsion System Advancements for the Near Future PART I	Clean Aviation Hybrid Electric Regional Aircraft - Roundtable Discussion with the involvement of HERA, HERWINGT, HECAFE, ODEHERA, HERFUSE	Production of Aerospace Components via Metal Additive Manufacturing: Research Challenges and Industry Perspectives	FALCON : Foreseeing the next generation of aircraft: hybrid approach using lattice Boltzmann, experiments and modeling to optimize fluid-structure interactions	Sustainability and circularity in the design process in aviation	Safety and environment in ATM	The ASTRAIOS Project – Building a Future-Ready Space Workforce in Europe
Session Chair	Dr. Baris Caglar (TU Delft, Netherlands)	Dr. Christos Mourouzidis (Cranfield University, UK)	Mr. Vittorio Ascione (Leonardo, Italy)	Dr. Spyros Diplas (SINTEF, Norway)	Prof. Julien Favier (Aix-Marseille University, France)	Prof. Angelos Filippatos (University of Patras, Greece) & Ms. Ligela Paletti (DLR, Germany)	Prof. Octavian Thor Pleter (University Politehnica of Bucharest, Romania)	Dr. Mari Kolehmainen (ESF, France)
10:30 - 10:50	Digitalization in composite manufacturing and its impact on sustainability (TOSCA Project) Christian Elitzinger	Hydrogen Engine – Engine oil systems heat modelling for fuel conditioning Berndt Said, Christos Mourouzidis, Pavlos Rompokos, Adriano Isoldi, Ioannis Roumeliotis, Vassilios Pachidis	HERA Project Giuseppe Piscopo	AI-based MMC development for aerospace applications Angelos Evangelou	A coupled ProLB-Nastan solver for fluid-structure interaction in aeronautics Robin Cheyher, Jérôme Jacob, Isabelle Charalampopoulou, D. Markatos, L. Paletti, V. Pohya, G. Wende	Circularity performance assessment of novel aircraft configurations L. Paletti, V. Charalampopoulou, D. Markatos, A. Filippatos, A. Pohya, G. Wende	Insights into Conflict Detection & Resolution Integration in AI-Enhanced Air Traffic Control systems Javier A. Pérez-Castán, Álvaro Albalá Perera, L. Pérez-Sanz, Lidia Serrano-Mira, Tomislav Radisic and Ivan Tukaric	Introducing ASTRAIOS: Goals, Vision, and Impact Mari Kolehmainen
10:50 - 11:10	Automated Tape Laying process monitoring for optimizing insitu consolidation of next-generation aeroframes (COMPSTAR Project) Pablo Romero Rodriguez	Influence of Variable Guide Vane angle on compressor surge events Sarah Marokky, Sajal Kisssoon, Lucas Pawsey, Christos Mourouzidis, Vassilios Pachidis	HERWINGT Project Sebastian Pellicer	Microstructural Engineering of AM materials Christos Sofras	Efficient Wall-Modelled Large Eddy Simulation for Fluid-Structure Interaction using Homogenized Hybrid Recursive Regularized Lattice-Boltzmann Methods Fedor Bukev, Adrian Kummerländer, Stephan Simonis, Mathias J. Krause	Writing well-formed requirements for the successful design of sustainable long-range aircraft: a structured approach Luca Boggero, Harry Pishoyos, Dionyssios Markatos, Ligia Paletti, Gerko Wende, Angelos Filippatos, Björn Nagel	Global Impact of Aviation Contrails Octavian Thor Pleter, Cristian Emil Constantinescu	Mapping and Curating Space Education From ASTRAIOS Educational Web Catalogue to Newly Developed Training Materials Yalla Al Asmar
11:10 - 11:30	Leveraging Photonic Integrated sensors and vitrimer formulations in induction welding to advance composite aero structures (PLEIADES Project) Harry Zervos	Enhanced Shaft Power Transfer Strategies in Gears Turbofan Engines, Highlighting Synergies with Conventional and More Electric Adaptive Cycle Systems Sara Alao, Ioannis Roumeliotis, Vassilios Pachidis, Christos Mourouzidis, Pavlos Rompokos, Raj Ghoshani, Sajal Kisssoon	HERFUSE Project Fabrizio Leone	Qualification & Certification of Metallic Components Towards Aerospace Readiness Hilde Larsen	Pre-Experimental Aerodynamic Design Study For a High-Lift Wing Model under Rigid Conditions using WM-LES lattice Boltzmann Method Malav Soni, Roland Ewert, Jan Delfs	Identification of Sustainability-related Stakeholder Needs and Requirements for the Conceptual Design of Future Long-Range Aircraft Dionyssios Markatos, Harry Pishoyos, Ligia Paletti, Luca Boggero, Bram Peeters, Elise Scheers, Lukas Soeffing, James Page, Spiros Pantelakis, Angelos Filippatos	AI-Driven Aviation Weather Forecasting: Enhancing ATM Resilience to Meteorological Disruptions Antel Jardines	Mapping the European Space Workforce Heidi Thiemann
11:30 - 11:50	Smart Manufacturing in AFP: Predicting Composite Quality Through Process Data (GENEX Project) Carlos Mallor	Weight optimization of intermediate heat transfer system for hydrogen fuel conditioning in aviation S. Kountzlis, I. Roumeliotis, C. Mourouzidis, P. Rompokos, V. Pachidis	ODE4HERA Project Carlos Cabaleiro de la Hoz	Roundtable Discussion Ana María Fernández, Hilde Larsen	Towards Automatic Code Generation of Adjoint Lattice Boltzmann Methods for Fluid-Structure Interaction Adrian Kummerländer, Shota Ito, Fedor Bukev, Stephan Simonis, Mathias J. Krause	Towards a European Flying Testbed – Governance models and funding strategies Harry Pishoyos, Thomas Karlaftopoulos, Dionyssios Markatos, Pierluigi Iannelli, Lorenzo Pellegrino, Marco Arribalzaga, Andreas Strohmayer, Spiros Pantelakis, Angelos Filippatos	Transitioning Ground Handling Fleets Towards Low-Emission Operations at Airports Raquel Alonso-Pedro, Miguel Muñoz-Ortiz, Yash Raka	Skills Gap Analysis in the European Space Sector: Educational, Demographic, and Strategic Insights from ASTRAIOS Christie Maddock
11:50 - 12:10	Multiscale Machine learning approaches for industrial scale simulation of composite manufacturing processes (DIDEAROT Project) David Dumas	Application of the Pseudo-Spectral Time-Marching method to fan design problems Jesus Matesanz-García, Roque Corral	HECAT Project Daniel Izquierdo Gil	Roundtable Discussion Ana María Fernández, Hilde Larsen, Christian Leinenbach	Surrogate model for fluid-structure interaction using latent space representation Jean-Baptiste Labro, David Zarzoso, Jérôme Jacob, Julien Favier	Advancing Sustainable Product Development in aviation: the SUSTAIN Project Pauline Leonard	Strategic Fuel Planning for Aerodynamic Formation Flight: Quantifying Delay Flexibility for Rendezvous Success Majed Swaid, Volker Gollnick	Pathways into Space: Real Voices and Journeys from the ASTRAIOS Project Grazia Fiore
12:10 - 12:30	Hyperconnected simulation ecosystem supporting probabilistic design and predictive manufacturing of next generation aircraft structures (CAELESTIS Project) Cristian Bules Cárdenas	Architecture exploration and whole engine design study for free piston integrated Composite Cycle Engine Yu-Hsuan Lin, Florian Winter, Alexandros Lessis, Fabio Witzgall, Arne Seitz	Roundtable Discussion	Roundtable Discussion	Cinematic visualisation of high-fidelity CFD simulations Ondrej Meca, Tomas Brzobohaty, Lubomir Riha	Comparison of Metallic and Composite Hydrogen Storage Tanks Using Life Cycle Assessment in Ecodesign Andrea Peffersen Heläsen, Angelika La Rosa, Sofrios Grammatikos	Preliminary Study on the Impact of the Ad Hoc Separation Concept in Free Route Airspace Lidia Serrano-Mira, Marta Sánchez-Aguilar Roncer, Javier A. Pérez-Castán, Eduardo S. Ayra, Marta Pérez Maroto, Luis Pérez Sanz	Environmental, Social and Governance Practices within the European Space Sector: Key Insights from the Peer-to-Peer Learning Workshop Series and the ASTRAIOS Business Community Cristina Ramos
12:30 - 13:30	Lunch Break							
ROOM	A-021	A-003	A-004	A-005	A-006	A-025	A-026	A-027
Session Title	CAELESTIS: Advancing Aviation through Virtual Prototyping, Lightweight Materials, and High-Performance Computing PART I	Propulsion System Advancements for the Near Future PART II	Clean Aviation Technologies for Hybrid-Electric Regional Architectures PART I	Advanced Manufacturing Technology for Aeronautics and Space PART I	The OVERLEAF Final Event: Advancements in Liquid Hydrogen Storage Technology and Future Scenarios	Sustainability and circularity in the manufacturing process in aviation	From sensors to systems. Navigation & Control PART I	Satellite Front-End Electronics
Session Chair	Mr. Cristian Bules Cárdenas (AIMEN, Spain)	Dr. Christos Mourouzidis (Cranfield University, UK)	Mr. Sebastian Pellicer Sotomayor (Airbus Defence and Space SA, Spain)	Prof. Mario Guagliano (Politecnico Di Milano, Italy)	Ms. Emma Celeste Lope Refuerzo (Acitum, Spain)	Dr. Elias Koumoulos (IRES, Belgium) & Prof. Angelos Filippatos (University of Patras, Greece)	Prof. Cezary Szczepanski (Warsaw Institute of Aviation, Poland)	Prof. Ernesto Limiti (University of Roma "Tor Vergata", Italy)
13:30 - 13:50	CAELESTIS Introduction & Overview Cristian Bules	Elaboration and Evaluation of Concepts for Battery Modules in Electrified Aircraft Propulsion Systems Alperen Ozturan Alhan, Florian Franke and Stefan Kazula	Innovative technologies for fuselages and empennages Tamara Rodriguez Gomez	Sustainable and efficient manufacture for hollow propeller blades from carbon fiber-reinforced plastic and lost salt core in HF-RTM Process Feiyang Zhang, Michael Wilhelm, Tatjana Vuccaro, Markus Reeb	OVERLEAF introduction, Hydrogen Tank Overview & Concept Emma Lope Refuerzo	Developing a Sustainable Product Footprint Declaration (SPFD) system in the aerospace industry for enhanced sustainability communication and transparency Johanna Nylander	UAV Guidance with Concurrent Evasion and Terminal Angle Constraints Ekrem Berkcan Böyük, İkber Murat Koç	GaN Solid-State amplifiers for multi-orbit broad-band active-antenna front-ends Gorka Rubio-Cidre, Mario Ramírez-Torres, Alvaro Morato-Granero, Francesco Scappaticcio, Alessio Faccini, Andrea Bondi
13:50 - 14:10	CAELESTIS: a data-driven framework for scaling-up permeability prediction in composite materials Guillaume Brogi	Sensitivity of LH2 aircraft refuelling to process and storage tank parameters Francesco Mastropiero, Enrico De Bettia, Damiano Tormen, Michele De Gennaro	Multispacer high integrated structures Rubén Ródanovs Vicente	Unlocking the Future of Aircraft Manufacturing: The Economic and Environmental Benefits of Laser Patterning for Surface Enhancement of Aircraft certified alloys Luis Antonio Sanchez de Almeida Prado, Daniel Coskun, Anne-Laure Cadena, Ramón Angel Antelo Reguengos, Jake Carter, Kyle Ito, Mirrok Park and Vassilisa Zarba	AUTOMATED MANUFACTURING OF THERMOPLASTIC COMPOSITES FOR HYDROGEN STORAGE Xabier Perez Ferero, Prasad Shimpali, Beatriz Gomes, Ivette Calo, Mario Hernandez Pedraza, Pablo Romero Rodriguez	Assessing the costs and environmental impacts of a cryogenic H2 tank demonstrator Christian Bülow, Karina Kroos	The aviation equipment verification process on the example of the PPM-GA fuel gauge Damian Uziewski, Nezar Sahbon	High-Power RF Solid-State GaN Amplifiers for Spaceborne Applications Francisco de Arriba, Lorena Cabria, Rocío García, Jorge Madrazo, Ismael Trasero, Irene Martín, Reinel Marante and Alejandro Pila
14:10 - 14:30	ML-based method for in-situ modification of the fiber placement process for improved impregnation in RTM Ivan Ruiz Cozar	Cryogenic Propulsion Systems for Hydrogen-Electric Powered Aircraft Christian Bennerthaler, Bernd Eckhardt, Florian Bayer	Hybrid electric overall powerplant integration Santiago Lopez Gordo	Influence of AFP Defects on Damage Tolerance: Effect of Coupling Leith Alifai, D.M.J. Peeters, J.A. Pascoe, R.C. Alderliesten	PA11 CF Composite Material for Cryogenic Tank Gilles Hochsfeier	Life Cycle Assessment and Costing of Thermoplastic Composite Aircraft Component with Digital-Assisted Repair Technologies Evangelia Stamkoupolou, Anastasia Kilkka, Emmanuel Markakis, Foteini Petrakli, Elias P. Koumoulos	Introducing Adaptation And Artificial-Based Process Validation Into Avionics Certification Process Sebastian Rutkowski, Ewelina Szpakowska-Peas	Design, Validation, and Integration of a Ka-Band Feed Application System Using COTS Components for Satellite Front-End Applications Nieves García, Aintzane Lujambio, Beatriz Aja, Luisa de la Fuente, David Lobato
14:30 - 14:50	+HPC-based simulation ecosystem using workflows +An HPC-enabled framework for synthetic data generation and large-scale mechanical simulations of composite structures Gerard Guillame	Solid Oxide Fuel Cell Performance and Sizing Model for Novel Aircraft Propulsion Conceptual Design Christopher Warsch, P. Maas, A. C. Mejias, F. Winter, M. Fikry, A. Seitz, M. Hornung	Electrification challenges of regional aircraft Daniel Izquierdo Gil	Innovative Heating and Automated Welding of Vitrimer-based Composites for Aerospace Applications Enrico Chemello, Massimiliano Russell, Mohsen Bahrami	Comparison of Metallic and Composite Hydrogen Storage Tanks Using life Cycle Assessment in Ecodesign Andrea Peffersen Heläsen	Material-based Aerostructural Optimization of High-Aspect Ratio Wings for reducing life cycle environmental impact Shanahan Sappe, Usmane Sy, Joseph Monier, Emmanuel Benard, Christian Gogu	Countering Drones with Autonomous Cooperative Drone Swarms via Multi-Agent Deep Reinforcement Learning Ender Çetin, Cristina Barrado, Jose Luis Muñoz Gamarr, Juan Jose Ramos Gonzalez	RF transmit and receive MMIC front-end for V-band inter-satellite link Patrick Longhi, Mattia Riccardi, Andrea Ricci, Giulio Venanzoni, Rocco Giofre, Francesco Vitali, Ernesto Limiti
14:50 - 15:10	Bridging Experimental and Numerical Testing for Mechanical Performance Assessment of the Outlet Guide Vane Using a Building Block Approach Aravind Sasikumar	Numerical Modeling of Annular-Mist Flow Within a Water Recovery Unit Georgios Iosifidis, Richard Haidi, Jonathan Glaser, Koji Hasegawa, Bernhard Weigand	Active wing control Alan Serena	Enhancing composite joining in aerospace: role of energy directors in ultrasonic welding Mohsen Bahrami, Marta Juanatey Muradas, Massimiliano Russell, Enrico Chemello	Building Block Approach and validation process for the structural design of type V tank for liquid Hydrogen Quirze Abella Travesso, Jordi Renart Canalias, Jean-Luc Baray, Nadège Montroux, Florian Mandjia, Abdourahim Ibrah, Florian Lapouge, Michael Sicard, Alain Sarkisian, Alain Hauchecorne, Milena Martic	Rigid Polyurethane Foams for Cryogenic insulation – Introducing Phase Change Materials into Sustainable Materials into Sustainable Life Cycle Environmental Impact Shanahan Sappe, Usmane Sy, Joseph Monier, Emmanuel Benard, Christian Gogu	Development of Attitude Control Algorithms for OPS-SAT: A Comparative Study of PID and Fuzzy Controllers Karl Olle, Cristina Flores, Juan Carlos Crespo, María Royo, Alf Arshadi, Álvaro Bello, Victoria Lapurta	UC3M ST3LLARsat1 "Boila" CubeSat: On-Board Computer Development Cristian Suárez, Andrés Marcos
15:10 - 15:30	Characterization of dissimilar Titanium/Carbon fiber unions in One-shot Resin Transfer Molding for aeronautic components Transforming Aircraft Design in CAELESTIS: Digital Twins in Action Cristian Bules	Wing Tunnel model for gust response and flutter experiments Francesco Toffoli	Final Results and Conclusions Emma Lope Refuerzo					The camera systems of the small satellite ROMEO Dominik Starzmann
15:30 - 16:00	Discussion of Future Use Estelle Castanet, Sibin Saseendran							
ROOM	A-021	A-003	A-004	A-005	A-006	A-025	A-026	A-027
Session Title	CAELESTIS: Advancing Aviation through Virtual Prototyping, Lightweight Materials, and High-Performance Computing PART II	Next Generation Propulsion Systems PART I	Clean Aviation Technologies for Hybrid-Electric Regional Architectures PART II	Advanced Manufacturing Technology for Aeronautics and Space PART II	Better Controls Mitigation (BeCoM Project)	Are we ready to design for sustainability?	From sensors to systems. Navigation & Control PART II	Satellite Systems in the 6G network
Session Chair	Mr. Cristian Bules Cárdenas (AIMEN, Spain)	Prof. Andreas Strohmayer (University of Stuttgart, Germany)	Mr. Sebastian Pellicer Sotomayor (Airbus Defence and Space SA, Spain)	Prof. Mario Guagliano (Politecnico Di Milano, Italy)	Assoc. prof. Feijia Yin (TU Delft, Netherlands)	Prof. Sophie Hallstedt, Prof. Ole Isaksson (Chalmers University of Technology, Sweden) & Prof. Timoleon Kipouros (Cranfield University, UK)	Prof. Cezary Szczepanski (Warsaw Institute of Aviation, Poland)	Prof. Ernestina Cianca (University of Roma "Tor Vergata", Italy) & Prof. Beatriz Soret (University of Malaga, Spain)
16:00 - 16:20		A method for installation losses in preliminary design tools Francesco Antonio D'Aniello, Tommaso Scuderi, Donato de Rosa, Anna Occhipinti	Immunity Analysis of Hydrogen Fuel Cell Stack for Aeronautical Applications Giovanni Fusolo, Galli, Hervé Denoyer, Oskar Ekblad, Giancarlo Kosova and Mattia Barberino	Virtual Manufacturing Finite Element Framework for Defect Prediction in Resin Impregnation Processes Giorgio Maria D'Orazi, Antonio Raimondo, Andrea Cini	Introduction of BeCoM Project Feijia Yin	Qualification of Water Vapor Observations in the Aircraft Flight Region as Part of the BeCoM Project Philippe Keckhut, Dunya Akdagci, Guillaume Payen, Sidny Antona, Jean-Charles Dupont, Antoine Farah, Alexis Poignant, Jean-Luc Baray, Nadège Montroux, Florian Mandjia, Abdourahim Ibrah, Florian Lapouge, Michael Sicard, Alain Sarkisian, Alain Hauchecorne, Milena Martic	Testing Spacecraft Attitude Control with Fuzzy Logic in a Relevant Environment: Insights from the Buzz Experiment Ali Arshadi, María Rojo, Juan Carlos Crespo, Cristina Flores, Karl Olle, Ana Laverón, Victoria Lapurta	Satellite and Mobile Network Operator Cooperation Models for Efficient Handover in 5G-NB-IoT NTN Tedros S. Abdu, Eva Lagunas, Hor Ortiz, Jorge Quero, Marcelo O. K. Mendonça, Ons Aouedi
16:20 - 16:40	Voice in Horizon Europe Aviation Research Janusz Poplawski, Carlos Mallor Turon, Emma Celeste Lopez Refuerzo, Pablo Rodriguez	Future High-Efficient Engines with Solid Oxide Fuel Cells - Gas Turbine Coupling: System Modelling and Comparison of Directly and Indirectly Coupled SOFC-GT-Systems P. Köhler, J. Hollmann, A. Tissier, S. Kabelac, M. Richter, M. P. Hedicich	High-Efficient and Compact Electronic Controlled Fuel Cell Air Supply System Nejat Mahdavi, R. De Maglie, A. Lacoste	The Cold Spray Process for Structural Repair and Additive Manufacturing in Aeronautics M. Guagliano, A. Heydari, A. Ardestani, S. Bagherifard	A Modular Assembly Concept for Large-Volume CRFP Hydrogen Tanks for Passenger Aircraft Karina Görner, Benjamin Diehl, Simon M. Kotche	Assimilation of satellite, camera and air-borne cloud and humidity observations in the global data assimilation system of the German Weather Service Alexander Cress	Development of a microsatellite 3-Reaction Wheel ADCS FlatSat: the MLPUS project David Gómez Rodríguez, Ghassan Sharifi, Andrés Marcos	Multilayer Satellite Constellation Design for Multipurpose Applications Ernestina Cianca, Mansoor Jamal, Tommaso Rossi, Mauro De Sanctis
16:40 - 17:00		Controlling a Dynamic Fuel Cell System for the Propulsion of a Regional Aircraft Nicolas A. Dolzauer	Performance Analysis of a Hybrid-Electric Regional Aircraft Demonstrator Using JPAD and Simcenter Amesim Vincenzo Cusati, Mario Di Stasio, Fabien Reffo, Fabrizio Nicolosi, Rocco Gentile, Valeria Vercella	MODELING OF FULL SCALE ROTOR BLADE WITH ACTIVE TWIST CONTROL Andrejs Kovalovs	Protecting High-Voltage power distribution center for More Electric Aircraft G. Barroso de María, G. Robles, J.M. Martínez Tarifa, J. Escrivá, D. Izquierdo, G. Salinero	Integrating climate policies into air transport operations: Challenges, Risks, and Impacts Maite Niklub, Z. Zengerling, K. Köller, M. Mendieta, Meuser, Benjamin Lührs, Alexander Lau, Abolfazl Sirimogh, S. Matthes, V. Grewe, F. Yin, A. Stefanidis, T. Roeter, F. Crova	Workshop	Using a MEga CONSTellation (MECO) to Emulate IP-Based Satellite Networks Stefano Saisano, Max Miraffa, Cesare Rosei, Luca Fiscariello, Ernestina Cianca, Mauro De Sanctis, Lorenzo Bracciale, Andrea Mayer, Pierpaolo Loreti
17:00 - 17:20	Panel Discussion "Beyond CAELESTIS: Integrating Virtual Design, lightweight materials & HPC for the Future of Aviation" Janusz Poplawski, Julian de Marchi, Luca Brigandt, Cristian Bules	Experimental Validation and Numerical Simulation of a High-Efficiency Composite Propeller for a Medium-Weight VTOL UAVs M. Gorzalzka, Przemysław Wyszkowski, Mirosław Maślak, Włodzimierz Balicki	Actuation system design for a compliant morphing trailing edge flap at demonstrator and full-size level M. Chiara Novello, B. Galasso, L. Pretoloso, S. Ameduri	Manufacturing of a Thermoplastic Drop Nose Device within the frame of CLEAN AVIATION Ramón Junco Molpeceres	From uncertainty to confidence intervals for mitigation potentials of climate-optimized aircraft trajectories Sigrun Matthes, Simone Dietmüller, Patrick Peter, Sarah Zengerling, Maximilian Mendieta, Meuser, Benjamin Lührs, Alexander Lau, Abolfazl Sirimogh, S. Matthes, V. Grewe, F. Yin, A. Stefanidis, T. Roeter, F. Crova		Identification of Requirements for a Simulation Framework to Support Development and Testing of Integrated Navigation Systems Kryštof Borodac	Integrated Ground-UAS and UAS-Satellite Communications in 6G: Architecture and Challenges in Terrestrial-Non-Terrestrial Network Convergence Anastasia Yastrebova-Castillo, Sami Toikkinen, Heikki Kokkonen, M. Asadullah, Marko Höyhtyä, Mikko Majanen
17:20 - 17:40		Closing Remarks						
20:00								
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DAY 3 | 16.10.2025

8:30 - 18:00		Registration							
ROOM		A-021 KEYNOTE SPEECH							
9:00	9:30	Impact of space technologies for sustainability and resilience by Mr. Massimo Claudio Comparini LEONARDO, Managing Director of Space Division							
Chaired by		Prof. Ernesto Limiti University of Roma "Tor Vergata"							
9:30	10:30	DISCUSSION PANEL Sustainability in Space Technologies, Applications & Systems Moderator: Prof. Ernestina Cianca University of Roma "Tor Vergata", Mr. Josef Kaspar VZLU AEROSPACE, Board Chairman & CEO, Dr. Kai Lindow Fraunhofer IPK, Director of Digital Engineering, Mr. Miguel Angel Molina GMV, Deputy General Manager Space Systems, Mr. Andrea Vena ESA - European Space Agency Chief Climate and Sustainability Officer							
Panels		Prof. Ernesto Limiti University of Roma "Tor Vergata"							
Moderated by		Prof. Ernesto Limiti University of Roma "Tor Vergata"							
10:30	11:00	Coffee Break							
ROOM		A-021	A-003	A-004	A-005	A-006	A-025	A-026	A-027
Session Title	Advancing Collaborative Defence Innovation: Research Insights from EDF-supported Projects	Next Generation Propulsion Systems PART II	Clean Aviation Technologies for Thermal Management PART I	Materials – Manufacturing – Structures PART I	Multifunctional structures with quasi-solid-state Li-ion battery cells and sensors for the next generation climate neutral aircraft (MATISSE Project)	Advancing Sustainable Aviation: Integrating Innovative Design, Manufacturing and Digitalization PART I	Innovation in UAVs: Advances in Design Methods Performance Enhancement and Emerging Technologies	Space Technologies PART I	Prof. Claus Othoff (University of Stuttgart, Germany)
Session Chair	Ms. Olga Eisman (IDEFE, Spain)	Prof. Andreas Strohmayer (University of Stuttgart, Germany)	Mr. Guillaume Bourely (Honeywell, Czech Republic)	CFD modelling of di-phasic refrigerant inside an aircraft Skin Heat Exchanger as a condenser for Hybrid-Electric Regional Aircraft Iván González-Nieves, Andrés Felgueroso-Rodríguez, Miguel Díaz-Barja	Structural Reliability Assessment of Compact Offset Strip-Fin Heat Exchangers for Hydrogen-Electric Aircraft Sahil Bhakar, Siddharth Patkar, Markus Kober, Stefan Kazula	Introduction to the MATISSE project Helmut Kühnelt	Aircraft Interiors Reinvented - Data, Systems, and Sustainability in Action Felipe Leite	Assessment of C-Type Winglet Integration Impact on the Performance of a Fixed-Wing BWB UAV Sfavros Kapsalis, Thomas Dimopoulos, Pavlos Kaparov, Georgios Iatrou, Pericles Panagiotou, Kyriakos Yakinthos	2U CubeSat Design to Provide Space-Based ICNS Services Alex Garau, Amitkar Rihcon-Charris
11:00	11:20	Introduction and Overview Olga Eisman	Estimating the maintenance-related material cost for battery-powered aircraft propulsion systems Jan-Alexander Wolf, Robert Meissner, Ahmad Al Pohya, Gerko Wende	Test results for a 200 kW two-phase pumped cooling system demonstrator for aerospace applications Henk Jan van Germeren, Sigurd Scholten, Charlton Castro, Georg Mühlthaler, Marcus Benedict Buntz	Aeroacoustic Performance Evaluation of Mixed-Flow Fans for Next Generation Hybrid Electric Regional Aircraft Pela Katsapoxaki, Dominik Christl, Ruben Hernandez, El Hassan Ridouane	STRUCTURAL MODEL OF A VERY LIGHT AIRPLANE FOR FLUTTER ANALYSES CONSIDERING PILOT'S EFFECT ON FLIGHT CONTROL SYSTEM Robert Rogoński	Safety aspects of structural batteries and smart multifunctional electrical energy storage Helmut Kühnelt, Alexander Beutl, Kristijan Rajinovic, Alexander Ryazov, Roberto Simmarano	Investigation of leading-edge dogtooth extensions on the low-speed aerodynamics of a BWB UAV Spyridon Antoniou, Petros Dimitratis, Pericles Panagiotou, Kyriakos Yakinthos	Flow Characterization Around a Mars Rover Model of Extremely Low Reynolds Number J. Fernández-Antrón, R. Barberá, A.A. Rodríguez-García, Señor C. Martín-García and E. Barroso-Barberá
11:20	11:40	EICACS: A standard framework for Collaborative Air Combat Miguel Enriquez Arosa, Raquel Delgado-Aguilar Jurado	Early-stage considerations of traction battery placement in small, commercial aircraft Annika Staats, Andreas Bardenhagen	Carbon Heating System: A Next-Generation Electrical Temperature Control System for Cabin Heating Marc Ahlborg, Josef Ostermayer, Markus Pollmann, Pela Katsapoxaki	Tangential Interpolation for the Operational Modal Analysis of Aeronautical Structures Gabriele Dessa, Marco Civera, Oscar Elias Bonilla-Manríquez		Creating a smart data ecosystem to address evolving challenges in aviation Ben Joseph	Heterogeneous Vehicle Fleets for Advanced Air Mobility: Optimization across Metropolitan Demand Scenarios Ansgar Kirste, Eike Stumpf	From Ground to Orbit: Adapting CM8 Calibration Technology for Space Irene Sánchez-Ramón, F.J. Casas, J. Cubas, G. Pascual-Cisneros, L. Castelló, E. Martínez-González, B. Barreiro, P. Vilvela
11:40	12:00	EPIIC and Innovative Interaction Modalities Pablo Miguel Rodriguez Rey	NG-MIMA: The stage for the future of military integrated modular avionics in Europe Santiago Lozano Terol	The potential roles of 2-phase mechanically pumped loops (2P-MPLs) in hybrid and Electrical Aircraft Thermal Management Johannes van Es, Julian Biesheuvel, Wouter Blom, Charlton Castro, Aswin Pauw, Guilihem Delpu, Fatima Cherdouh, Esti Trejo Peimbert, Ricardo Gantus, Pierre Trollet, Guillaume Galzin, Laurent Labaste Maube, Vincent Dupont, Christian Popper	Comparison of selected compressive and tensile characteristics of four types complex porous structures made of INCH71 K. Monka, G. A. Panatzopoulos, P. P. Monka, M. Bouzouni, S. Papadopoulou, A. I. Toufatzis	Damage tolerance of structural batteries integrated in sandwich structures under low velocity impact conditions Francesco Di Caprio, Monica Ciminello, Frederic Laurin	Sustainable production equipment thanks to new materials, modular design and intelligent connection Felipe Leite	Low-Speed Wind Tunnel Tests on a UCAV Model with Controls Hassan Aleisa, Konstantinos Konfis and Melike Nilkay	Optical analysis of an Origami-inspired self-deployable batte Ester Velázquez-Navarro, Diego Rodríguez-Díaz, Pablo Solano-López, Ruy Sanz, Tomás Belenguer
12:00	12:20	MYRIAD: Multi-source Information System based on Remote sensing and Analytics to support the strategic Defence domain Miguel Ángel Molina	Numerical investigation of unsteady fluid flow inside air cooling lines with tilted heat exchanger for electrified aero engines Prabhat Singh, Florian Nils Schmidt, Sébastien Merbold, Ralf Rudnik, Stefanie de Graaf	Modelling comparison of a Two-phase Mechanically Pumped Loop (2P-MPL) with a conventional water-glycol 1F-MPL's for Fuel Cell cooling in Thermo4IEFA Tim de Weijer, Johannes van Es, Julian Biesheuvel, Guilihem Delpu, Fatima Cherdouh, Esti Trejo Peimbert, Ricardo Gantus, Pierre Trollet, Guillaume Galzin, Laurent Labaste Maube	A Framework for Efficient Part-Scale Microstructure Prediction in Laser Powder Bed Ti-6Al-4V Using Combined Physics-Based Modeling and Machine Learning Surrogate Methods Anthony G. Spangenberg, Diana A. Lados	Assessment of structural battery system performance, integration, and scaling trends for aeronautical application Akshayan Sudharshan	Connecting data through AI and digital Continuity: Enabling a smarter, more sustainable aerospace industry Ben Joseph	Overview of flow control techniques for tactical Blended Wing Body UAVs Spyridon Antoniou	Improving flexibility in modular space robots: An adapter to connect a research-related electromechanical interface with a commercial one Jonas Benz, Wiebke Brinkmann, Mehmed Yüksel, Hilti Küçük, Utku Akinci, Jonas Eisenmenger
12:20	12:40	HYDEF: European Hypersonic Defence Interceptor Sergio Aladrén Alborca	Design of a H2 conditioning system: heat transfer of fuel cell system waste heat with a two-phase mechanically pumped loop Arne K. te Nijenhuis, Aswin Pauw, Tim Lutje, Roel van Bentheim				DPP: Enabling Circularity Through Digital Product Passports in Aerospace Joanna Steiner, Theresa Riedelheimer	Mining the Moon and Asteroids: Building the Resource Infrastructure for a Sustainable Sunshade Architecture Maheswaran, T., Anil A. Felicitas Leese	
13:00 - 14:00		Lunch Break							
Session Title	Ramp-up of Sustainable Aviation Fuels Production: Taking Stock of Ambition and Reality	Innovative electroactive morphing for disruptive future wing design towards long term sustainability	Clean Aviation Technologies for Thermal Management PART II	Materials – Manufacturing – Structures PART II	Synergies of Highly Integrated Transport Aircraft (Syntrac)	Advancing Sustainable Aviation: Integrating Innovative Design, Manufacturing and Digitalization PART II	Smart-IAM - towards smart-city integrated AI-driven sustainable mobility	Space Technologies PART II	Prof. Octavian Thor Pleiter (University Politehnica of Bucharest, Romania)
Session Chair	Prof. Robert Malina (Hasselt University, Belgium)	Dr. Marianna Braza (CNRS, France)	Mr. Guillaume Bourely (Honeywell, Czech Republic)	Assessment of Heat Transfer and Fluid Flow Models for Low-GWP Refrigerants During Condensation and Boiling Inside Offset Strip Fins for the Next Generation Aeronautical Heat Exchangers Nur Cobanoglu, Esi Trejo Peimbert, Damien Poitou, Simone Manzini	Thermal Degradation Model Towards Modular Biobased Thermoplastic Polymer-Natural Fiber Processing Dimitrios Apostolidis, Niklas Lorenz, Baris Kumru	Extending engine performance modelling for highly integrated transport aircraft Yuan Y., Staudacher S., Iyer N., Friedrichs J.	Overall Design and Technology Integration for a 9-Seater Hydrogen-Electric Commuter Aircraft Concept Sören Kolb-Geßmann, Thomas Zill	Smart Anti-Icing Solutions for UAVs: Enhancing Safety and Operational Endurance in Cold Weather Conditions Paulina Woronecka, Maciej Osiewicz	Small launchers design during conceptual phases Rubén González-González, Andrés García-Pérez, Gustavo Alonso Rodrigo
14:00	14:20	Where do we stand with regard to global market scale-up of SAF? Alessandro Martulli, Sumit Mahajan	Influence of inclusions morphology on the frequency response of a piezoelectric bimorph actuator made of a PVDF/PtSA composite Salah Elbarady, J.P.M. Correia, Wyko Azof, Sádah Ahsz	Integration of functional mock-up units into digital twins of aircraft thermal management systems Tobias Reischl, Corinthen Lepais, Raphael Gebhart	Characterizing fatigue delamination growth in multidirectional CFRP laminates John-Alan Pascoe, Davide Biagini, Francisco Montiel, Yasmine Mosteh		usStudio: A Tool Supporting Uncertainty Quantification in Multidisciplinary Design of Transportation Systems Tawfiq Ahmed, Marko Alder	Smart-IAM - towards smart-city integrated AI-driven sustainable mobility Bartosz Dzugił, Adam Liberacki	Conceptual study of European Martin rotorcraft with capability to transport passenger or load for future mars missions Jakub Kocjan, Robert Rogoński, Łukasz Kiszko
14:20	14:40	Challenges and Opportunities for the Market Scale Up in Emerging and Developing Economies Francis Mwangi, Robert Malina	Reduced Order Modelling by means of Proper Orthogonal Decomposition and Machine Learning for aerodynamic turbulent flows Nils Maynard, Abderrahmane Marouf, Jacques Abou Khalil, Rajaa El Akouri, Yannick Hoarau, Jean-François Rouchon, Marianna Braza	Water-Evaporation Supported Fuel Cell Cooling Architectures for Aircraft Raphael Gebhart, Luis Weber, Franciscus L.J. van der Linden	Thermoset curing and ply drop effect on mechanical performance of composites W.M. van den Brink, M. Post, N. van Hoorn, M. Nawijn, G. Allegri	Engine-Airframe Integration – From Froude Reduction to Numerical Flow Simulation Jan Hartmann, Stephan Staudacher	Electrical System Architectures for Future Electric Aircraft Andrea Keindl, Franciscus van der Linden	Evaluating the Integration of Advanced Air Mobility into Intermodal Transportation Systems A System of Systems Simulation Approach Nahib Naeem, Nazlican Cigal, Prajwal Shiva Prakash, Björn Nagel	Combining Life Support Systems with Digital Twins: A new potential? Felicitas Leese, Claas Othoff
14:40	15:00	Effect of Sustainable Aviation Fuel prices on airlines' operating results Jose Jaume, Gustavo Alonso, Arturo Benito	Spanwise travelling wave morphing trailing edge around an A320 wing through numerical simulation Clément Roux, Horia Hangan, Marianna Braza	Scaled test program strategy for skin heat exchanger used in thermal management for Hybrid Electric Regional Aircraft Benigno J. Lázaro, Ezequiel González-Martínez	Modal identification of a fighter jet aircraft via matrixless tangential interpolation Mikel Janices Chamizo, Gabriele Dessa, Marco Civera, Oscar E. Bonilla-Manríquez	"New Work" in Aerospace Sciences – Two Years of Experience in the CRC Syntrac Tobias Ring, Stephan Staudacher	Flying laboratory for testing electric propulsion systems at various altitudes Cezary Galinski	Centralized Landing Flow Merging for Drones Using Deep Reinforcement Learning Aleksandr "Sasha" Vlaskin, Jan Groot, Emmanuel Sunil, Joost Ellerbroek, Jacco Hoekstra	A Systematic Review of Circularity and Sustainability Strategies in the Space Industry Joanna Steiner, Kai Lindow
15:00	15:20	Open Discussion	Numerical simulation and physical analysis of the flow around a A320 wing prototype: electroactive morphing through waves actuation N. Maynard, X. Delon, R. El Akouri, Y. Abou Khalil, J.F. Rouchon, M. Braza	QUALIFICATION PROCESS FOR ADDITIVE MANUFACTURED METALLIC CONNECTING FLANGES FOR SPACE LAUNCHER S. Franchini, R. Borelli, F. Di Caprio, G. Buonaiuto, A. Squillace	Communicating Scientific Research: Introduction to a Case Study of Public Relations Implementation in the Syntrac Project Rabea Morrison, Andreas Strohmayer, Kathrin Schulte	AI Assistant for Rapid Modelling and Design of Aircraft in XR environment Utkarsh Gupta, Atif Riaz, Sergio Jimeno	A Web-Based Tool for Mission Planning and Risk Assessment of UAS Operations Stefano Primatista, Gianluca Scopelliti	Development of an Iodine Feeding System for Space Applications Carlo Guidi, Maria Guidi, Manuel M. Saravia, Luca Bernazzani, Alessio Ceccarini, Fabrizio Paganucci, Enzo Panzardi, Elia Lanci, Marco Mugnaini, Nils Gerrit Kottek	
15:20	15:40		Experimental Investigation of Electroactive Morphing on an A320 Prototype under Subsonic Take-Off Conditions J. Abou Khalil, N. Maynard, X. Delon, R. El Akouri, G. Horan, S. Cain, M. Marchal, F. Bergame, H. Ayroles, J.F. Rouchon, M. Braza						EOCHES: The Feasibility of Space-based VHF Communications Gabriel García Rodríguez
15:40	16:00		Numerical investigation of the impact of embedded flapping actuators on wake dynamics and aerodynamic performance of a reduced-scale A320 airfoil in take-off and landing conditions R. Gauthier, J. Abou Khalil, A. Marouf, Y. Hoarau, M. Braza, J. Vos	Design and Analysis of a Baseline Fuel Cell Cooling System in a Conceptual Aircraft Design Framework Philip Balack, Angel Garmilla Manzano					
16:00 - 17:00		Coffee Break & Poster Session Tour #2							
Session Title	Hydrogen Aircraft Design and Application	AI-based methodologies for aircraft health management	Clean Aviation Technologies for Thermal Management PART III	Recent advances in SHM for Aeronautics: from sensor data to predictive maintenance	Green Deal Lighthouse Airports, The Final Sprint	Advancing Sustainable Aviation: Integrating Innovative Design, Manufacturing and Digitalization PART III	Single Pilot Operations (SPO) Technologies	Digital Engineering in Aviation and Space PART I	Dr. Shubham Shubham, Dr. Andrea Spinelli & Prof. Timoleon Kipouros (Cranfield University, UK)
Session Chair	Mr. Fabian Peter (Bauhaus Luftfahrt, Germany)	Prof. Dimitrios Zarouchas (TU Delft, Netherlands) & Prof. Theodoros Loufas (University of Patras, Greece)	Mr. Guillaume Bourely (Honeywell, Czech Republic)	Industrialising Additively Manufactured Heat Exchangers Fatos Derguti, Michael Fuller, Ian Fordyce	Smart Composite Complexes Aeronautical Structures: Mastering their life cycle management Nazih Mechbal, Eric Monteiro, M. Rébillat	Stargate: Accelerating Greener Aviation Charlotte Verreydt	Cooldown analysis of a foam-based LH2 Aircraft Storage Tank Carles Oliet, Marcial Masquida-Otero, Eugenio Schillaci, Jesús Castro	Advanced Cockpit Concepts as Enablers for Single Pilot Operations Vittorio Di Vito, Giulia Torrano	Generation and study of probabilistic solution spaces for conceptual and preliminary aircraft design Vladislav Tihomirov Todoro, Dmitry Rakov, Andreas Bardenhagen
17:00	17:20	An Integrated Approach to Hydrogen Aircraft Fueluse Design Nicolas Moëbs, Andreas Strohmayer	Damage detection by fiber optic sensors and machine learning Alfredo Guemes, Daniel del Rio, Antonio Fernandez	A Fast Design and Performance Prediction Methodology and Tool for Centrifugal Compressors of Aircraft Environmental Control Systems Gülbülgün Çelikel, Toon Bloem, Wilson Casas, Matheo Pini	Optimization of the MFC piezoelectric sensor network for SHM of composite aerospace structures Tadeusz Stepiński, Jakub Spytek, Lukasz Ambrziski, Sławomir Raorane, Paweł Pakacki, Andreja Calvo Echenique, Susana Calvo	Shaping Sustainable Solutions for EU Airports Fokko Kroesen, Karina Ospina	Manufacturing of an engine Outlet Guide Vane with Automated Fiber Placement and One-Shot Resin Transfer Molding process Cristian Bulles Cárdenes, Elena Rodríguez Semin, Mario Ramón Rodríguez	Supporting Single Pilot Operations through an ADS-B based Automatic Separation Assurance and Collision Avoidance System Vittorio Di Vito, Giulia Torrano	Dataset synthesis through Bayesian Networks for Engineering Design purposes Andrius Spinelli, Julian Martison Bond, Timoleon Kipouros, Ola Isaksson
17:20	17:40	Fleet and Climate Assessment for Aircraft Config							

15th EASN International Conference on Innovation in Aviation & Space towards sustainability today and tomorrow

Final Detailed Agenda

Registration

8:30 - 12:00		Registration									
ROOM		A-021 KEYNOTE SPEECH Is the eco-system of the European aerospace engineering education prepared to adapt to the transformation of Aerospace? by Prof. Gustavo Alonso Universidad Politécnica de Madrid (UPM), School of Aeronautical and Space Engineering (ETSIAE)									
9:30 - 10:00		Prof. Spiros Pantelakis Conference co-Chairman									
10:00 - 10:30		Coffee Break									
ROOM		A-021	A-003	A-004	A-005	A-006	A-025	A-026	A-027		
Session Title	Dr. Andreas Sizmann (Bauhaus Luftfahrt, Germany)	Energy and Fuels: Radical approaches towards 100% renewable energy and climate neutrality		Non-destructive testing and structural health monitoring of aircraft structures		Advanced Manufacturing Technology for Aeronautics and Space PART III		Aerodynamic & Aeroacoustic Analysis and Design PART I		Simulation and experimental validation of sustainable aircraft structures and their manufacturing processes	
		Prof. Emmanuel Benard (ISAE-SUPAERO, France)		Dr. Helge Pfeiffer (KU Leuven, Belgium) & Prof. Elena Jasiniene (Kaunas University of Technology, Lithuania)		Ms. Elena Rodríguez Senín (AIMEN, Spain)		Prof. Konstantinos Kontis (University of Glasgow, UK)		Prof. Konstantinos Tserpes & Prof. George Lampeas (University of Patras, Greece)	
Session Chair	Arne Roth, Ferdinand Vogelsang	Alcohol-to-Jet production routes – potentials and challenges through new combinations of process steps and feedstock		Exploration of High Aspect Ratio Strut-Braced Wings: A Low-Fidelity Framework for Early Aircraft Design Ousmane Sy, Shantanu Sapre, Emmanuel Benard, Joseph Marler, Yoann Le Lamer		Vibration-based damage detection and localisation on a trainer jet aircraft wing Gabriele Dessen, Marco Civera, Andrés Marcos, Oscar E. Bonilla-Manrique		Thermal and mechanical characterization of functionalized carbon fiber/epoxy resin composites with Graphene Elena Rodríguez Senín, Cristian Buites Cárdenas, Mario Román Rodríguez		Data-Driven Approach for Fast Noise Prediction in Preliminary Aircraft Design using the e-Genius as Example Dominik Eisenhut, Andreas Strohmayer	
		SUN-to-LIQUID II: Environmental and Economic Perspectives of Sustainable Aviation Fuel from Sunlight and Air Moritz-Alexander Thiel, Christoph Falter, Heider Hussain, Valentín Battaliger, Andreas Sizmann		Development of the Architecture of a Conceptual Design Tool for Manned and Unmanned Fixed-Wing Aircraft Rebeca González-Pérez, Alejandro Sánchez-Carmona, Cristina Cuervo-Rejado		Identification of the natural vibration modes of a turbine engine fan using one- and three-dimensional laser vibrometry Michał Szczęsnik, Aleksander Olejnik, Robert Rogolski		SEQUENTIAL RESISTANCE WELDING OF A THERMOPLASTIC COMPOSITE LEADING EDGE DEMONSTRATOR: FROM LABORATORY TESTING TO FULL-SCALE WELDING Massimiliano Russo, Enrico Chiaro, María Juana Cayetana Muradas, Mohsen Bohrami		On the effect of angles of attack and sideslip on aircraft stability derivatives L. M. B. C. Campos, J. M. G. Marques	
10:30 - 10:50	Naomi Sieben, Christopher Schruba	Navigating Passengers through Sustainability Initiatives within Air Travel: WTP for Voluntary Carbon Offsets and Sustainable Aviation Fuels		HADES – A Framework for Hierarchical Architecture Design for Engineering Systems M. Mischke, D.S.S. Katabathula, S. Rempel, R. Frank, S. Stoppa, T. Geyer		Detection of Water Ingress in Honeycomb Composites under Freeze-Thaw Cycles Using Acoustic Emissions Helge Pfeiffer, Tian Xun Lin, Jeroen Soete, Johan Vanhulst, Dimitrios Chronopoulos		Surrogate Modeling of Nonlinear Folding Wing Tip Aerodynamic Coefficients Andreas Molz, Christian Breitsamter		An approach to predict fatigue delamination propagation in curved composite laminates under non-constant mixed-mode conditions: experiments and simulation correlation Carlos Mallor, M. Sanchez, A. Calvo, S. Calvo, H. Roman-Wasik, F. Martín de la Escalera	
		Performance and Emissions Analysis of a Microturbine Operated with Sustainable Aviation Fuel Maria Grazia De Giorgi, Antonio Greco, Sara Bonuso, Pasquale Di Gloria, Bartosz Gawron, Tomasz Bialecki, Andrzej Kulczycki		Conceptual study of 80-pax fuel cell-driven aircraft for sustainable aviation Diego Giuseppe Romano, Etienne Guillaume Behar, Matilde Barberino, Gianpiero Buzzo, Giovanni Fusolo		Spatially Resolved Monitoring of the Curing Degree in the Liquid Resin Infusion Process using Near-Infrared Hyperspectral Imaging Xabier Zurutuza Lasa, Laura Arevalo Diaz, Janusz Poplawski, Cristian Buites Cárdenas, Tania Grandal González, Arantzuaz Núñez Cascales, Rubén Ruiz Lombera, Mario Román Rodríguez, Daniel Maestra Watson, Luka Ecolaza Echeverría		Process Strategies for DED-Arc Manufactured Pre-Forms in Ti15-3-3-3 in Flowforming Applications Robert Lou, Frederik Dahms, Hannes Zapf, Henrik Wünsch, Alexander Mäfde, Ingmar Kelbassa		Transport Aircraft Shock Buffet Investigations at Forced Wing Motions Vinzenz Völk, Christian Breitsamter	
10:50 - 11:10	Florian Franke, Stefan Kazula	Conceptual Design of a Metal Hydride Cartridge for the Recovery of Gaseous Boil-off Losses from Liquid Hydrogen Tanks		Adaptive Emergency Transport for Humanitarian Evacuation & Response (AETHER) Laurin Piechocka, Daniel Götz, Johannes Götz, Süheyli Savran, Raman Law, Carlos Santiago Valladares Quintana		A Multi-Modal Approach to Non-Destructive Testing of Adhesive Bonds Elena Jasiniene		Overcoming processability limitations in Al6082 alloy by PBF-LB/M of AMMCs with TiC/SiC reinforcements Raul Gomez		Droplet Impact Experiments and Numerical Simulations for Rain Effects on Structural Surfaces Martin Sauer, Christian Henries, David Danzeisen, Silke Grünke, Oliver Rohr	
		Comparative Analysis of Aircraft Energy Management Strategies for a Reduction in Hydrogen Consumption and Battery Ageing Ayesha Wise, Sharmila Sumsuaooh, Osama Hebala, Serhiy Bozhko, Seang Yeoh		Potentials of Hydrogen Powered Short-Range Aircraft Concepts with Mild-Hybrid-Electric-Propulsion Architectures Daniel Silberhorn, Georgi Atanasov		New Opportunities for Ultrasonic Fatigue: A Perspective on Key Considerations for its Broader Acceptance in Design/Qualification and Case Studies Using Conventional and Additively Manufactured Metals Diana A. Lados, Anthony G. Spangenberg		THE INFLUENCE OF MODEL SCALE ON WIND TUNNEL TEST RESULTS Andrzej Krzyśiak, Aleksander Olejnik, Lukasz Kiszkiwak		Experimental and Numerical Evaluation of Additively Manufactured Airfoils using Continuous Carbon Fibers Ivica Smojver, Darko Ivančević, Fran Ušurić	
11:10 - 11:30	11:30 - 11:50	Developing a Qualification and Testing Framework for Cold Spray Repair in Aerospace Applications Konstantinos Stamoulis, Stratos Koufis, Bernard Bosma, Lars Anderessen, John-Alan Pascoe		Adaptation of Damage Tolerance Design Principles to Cryogenic Hydrogen Tanks Stavros Vallinis, Konstantinos Fotopoulos, Ioannis Diamantakos, George Lampeas		Investigation of adhesive bonded joints for the integration of novel energy systems into a hybrid electric regional aircraft fuselage Panagiotis Gyftos, Ioannis Lentzas, Anastasia-Despina Ioannou, George Lampeas		Application of a syntax-based text extraction algorithm on airworthiness security regulations Adrian Hechelmann		Aircraft ditching by simulation: a contribution to support virtual analysis using a meshfree pointset method Christian Leon Muñoz, Dieter Kohlgrüber, Michael Petsch	
		Conceptual Design of a Morphing Wing Section for Subsonic Incompressible Flight David Macovei, Marta Oliveira, Pedro Quital, Rui Moreira, Mariana Barreira, Carolina Hernandez, Jose Luis Ruiz, Juan A. Cárdenas-Rondón		Electromechanical Resonant Ice Protection Systems Using Voice Coil Actuators Younes Rafik, Marc Budinger, Valérie Budinger, Hubert Polaert		4D Printing of Piezoelectric Polymers for Aerospace Applications: Processing Challenges, Functionalization, and Integration with High-Performance Substrates Apostolos Argyros, Vasileios Stratigaki Estratiadis, Nikolaos Michailidis		A Comprehensive Aero-Vibro-Acoustic Approach to Cabin and Airport Noise Mitigation in a 19-Seater Hydrogen-powered Electric Aircraft Matia Barbarino, Giovanni Fusolo, Antonio Pagano, Antonio Visignardi, Fabrizio Morando, Francesco Petrosino, Milica Zupanic, Imerai		Experimental results of the distribution of halon-free cargo fire suppression agents in an experimental cargo hold demonstrator Victor Norrefeldt, Arnav Pathak, Marie Pschorr, Maximilian Kienberger	
11:50 - 12:10	12:10 - 12:30	The NetShAir Project - Reducing CO2 Emissions from Aviation by Aircraft Sharing and Passenger Bundling Thomas Hagspiel, Vasili Kalliga, Yiwen Zhu, Carsten Rischmüller, Rainer Kofsch, Constantinos Antoniou		Experimental analysis of 2D Nanomaterial-Based Transparent electrodes for Efficient Photovoltaic Devices in Aviation Applications Noor ul aini ahmed, Maksim Shundalau, Marialigia Raimondo, Vidmantas Gulbinas, Maria Sarno, Claudia Cirillo, Patrizia Lambertini		Process development and additive manufacturing of a real scale rocket nozzle extension with filigree wall strengths by using powder-based laser material deposition (LMD) Jochen Kifel, Min-Uh Ko, Thomas Schopphoven		Numerical and Experimental Assessment of Cabin Noise Transmission Loss for Piaggio P.180 aircraft Carmen Brancaccio, Giovanni Fusolo, Matia Barbarino, Felicia Palmiero, Giorgio Travostino, Roberto Citarella		Additional Mitigation Means against the Thermal Runaway of Portable Electronic Devices in Cabin and Cockpit Victor Norrefeldt, Simon Holt, Jonas Pfaff, Sebastian Schopferer, Jürgen Kuder	
		The DEMOCRIT project: an EREA collaborative research on H2 tank design and A/C integration Ignacio Dimino, Maciej Kamy, Cedric Julian, Mircea Bociocla, Monica Crimino, Salvatore Amenduni		Prototype wing design and manufacturing for reflexed airfoil morphing Panagiotis Georgopoulos, Jurij Sadja, Roeland De Breuker		MXene/Polyanilincnanofiber Composite Functionilized with Recycled MnO for High-Performance Supercapacitors Renata Adam, Faraz Khan, Nicole D'Avanzo, Marialigia Iuliano, Claudia Cirillo, Libero Sesti Osse, Maria Sarno		Aerogel based high thermal insulating materials for space applications Eunate Goiti, Marta Ocejo, Alejandro Obregón, Yolanda Belaustegui		Mesh adaptation on hybrid unstructured meshes for immersed boundary methods with applications to industrial aerodynamics Jonatan Núñez-de la Rosa, Esteban Ferrer, Eusebio Valero	
12:30 - 12:50	12:50 - 13:10	The potential benefits and drawbacks of using thermoplastic composites in satellite structures Maciej Gzynski, Ewa Kaczorowska-Lukasik, Piotr Kowalczyk, Wojciech Krauze		Gust behaviour analysis of fixed-wing multi-mission Remotely Piloted Aircraft Carmelo-Javier Villanueva-Cañizares, Álvaro Gómez-Rodríguez, Cristina Cuernas-Rejado		A new approach to the application of SMA strain sensors for structural health monitoring of COPVs Alexander Hiekel, Björn Senf, Welt-Güntram Drossel		Simulation of the Passenger and Crew Exposure from a Thermal Runaway of Portable Electronic Devices in Cabin and Cockpit Arnav Pathak, Victor Norrefeldt, Simon Holt, Jonas Pfaff, Sebastian Schopferer, Jürgen Kuder		A Multi-Fidelity Aeroelastic Toolchain: From UAVs to Hydrogen Transport Aircraft Fanglin Yu	
		The Quest for a Digital Safety Thread in the End-to-End Aircraft Design Loris Dal Lago, Marco Donnarumma, Luigi Di Guglielmo, Vincenza Petrella		Flight tests of scaled demonstrators for a general aviation aircraft concept Thorben Hammer, Stefanie de Graaf, Anne Treder		Modular or Technology Specific Scaled Flight Demonstrator – An Approach to Estimate the Impact on Project Costs Dominique Paul Bergmann, Andreas Strohmayer		Multi-Agent Deep Reinforcement Learning Framework for efficient Aerial Wildfire Fighting Leonard Bardine, Nabih Naeem, Thomas Clemin, Nikolas Kalaitzakis and Prajwal Shiva Prakash		The Quest for a Digital Safety Thread in the End-to-End Aircraft Design Loris Dal Lago, Marco Donnarumma, Luigi Di Guglielmo, Vincenza Petrella	
12:30 - 13:30		Lunch Break									
ROOM		A-021	A-003	A-004	A-005	A-006	A-025	A-026	A-027		
Session Title	Dr. Andreas Sizmann (Bauhaus Luftfahrt, Germany)	Energy Storage		Aircraft Design PART II		Innovative electrical devices supporting sustainability in aviation and space		Aerodynamic & Aeroacoustic Analysis and Design PART II		In-flight safety for sustainable aircraft	
		Prof. Emmanuel Benard (ISAE-SUPAERO, France)		Prof. Patrizia Lamberti (University of Salerno, Italy)		Assessing Bi-Stability in 3D-Printed Origami Deployable Structures Ester Velázquez Navarro, Pablo Arribas, Boris Martín, Santiago Martín Iglesias, Pablo Solano-López b, Marta María Moure, Inés Uriel Balbín		Flight Validation of Wind Tunnel Measurements for a Cropped Delta Wing Design Filip Zubal		Aeroelasticity & Scaled Flight Testing	
Session Chair	Naomi Sieben, Christopher Schruba	Experimental sloshing regimes in horizontal cylindrical tanks Florin Festila, Lucian Constantin, Maria Casapu, Amado Stefan, Paul-Virgil Rosu		Preliminary Design and Aircraft-Level Assessment of Piezoelectric Resonant Ice Protection Systems Pierre Bonhomme, Marc Budinger, Valérie Pommier-Budinger, Valérie Palanque		4D Printing of Piezoelectric Polymers for Aerospace Applications: Processing Challenges, Functionalization, and Integration with High-Performance Substrates Apostolos Argyros, Vasileios Stratigaki Estratiadis, Nikolaos Michailidis		Zonal Simulation of air flow dynamics in the leakage case of a liquid hydrogen tank in a hybrid-electric regional aircraft		Requirement-based component placement for aircraft design Brigitte Boden, Tim Burschyk	
		Concepts for Liquid Hydrogen storage: cryogenic environmental aging and mechanical performance Pietro Agostino, Sotiris Grammatikos		Preliminary Design and Wind Tunnel Testing of a Morphing Wing Section for Subsonic Incompressible Flight David Macovei, Marta Oliveira, Pedro Quital, Rui Moreira, Mariana Barreira, Carolina Hernandez, Jose Luis Ruiz, Juan A. Cárdenas-Rondón		Experimental analysis of 2D Nanomaterial-Based Transparent electrodes for Efficient Photovoltaic Devices in Aviation Applications Noor ul aini ahmed, Maksim Shundalau, Marialigia Raimondo, Vidmantas Gulbinas, Maria Sarno, Claudia Cirillo, Patrizia Lambertini		Flight Validation of Wind Tunnel Measurements for a Cropped Delta Wing Design Filip Zubal		Establishing Effective Visualization Techniques for Schema-Based Collaborative Datasets on the Air Transportation System Level Andrea Mancini, Marko Alder, Raul Garcia Sanchez	
13:30 - 13:50	14:10 - 14:30	The NetShAir Project - Reducing CO2 Emissions from Aviation by Aircraft Sharing and Passenger Bundling Thomas Hagspiel, Vasili Kalliga, Yiwen Zhu, Carsten Rischmüller, Rainer Kofsch, Constantinos Antoniou		Multidisciplinary Design Optimization of Flexible Aircraft: Advancing Aeroelastic Co-design with Active Load Alleviation Armand Ioan Corpanaru, Philippe Pastor, Fabrice Demourant and Eric Nguyen Van		4D Printing of Piezoelectric Polymers for Aerospace Applications: Processing Challenges, Functionalization, and Integration with High-Performance Substrates Apostolos Argyros, Vasileios Stratigaki Estratiadis, Nikolaos Michailidis		A Comprehensive Aero-Vibro-Acoustic Approach to Cabin and Airport Noise Mitigation in a 19-Seater Hydrogen-powered Electric Aircraft Matia Barbarino, Giovanni Fusolo, Antonio Pagano, Antonio Visignardi, Fabrizio Morando, Francesco Petrosino, Milica Zupanic, Imerai		Experimental results of the distribution of halon-free cargo fire suppression agents in an experimental cargo hold demonstrator Victor Norrefeldt, Arnav Pathak, Marie Pschorr, Maximilian Kienberger	
		Composites for Liquid Hydrogen storage: cryogenic environmental aging and mechanical performance Pietro Agostino, Sotiris Grammatikos		The potential benefits and drawbacks of using thermoplastic composites in satellite structures Maciej Gzynski, Ewa Kaczorowska-Lukasik, Piotr Kowalczyk, Wojciech Krauze		Process development and additive manufacturing of a real scale rocket nozzle extension with filigree wall strengths by using powder-based laser material deposition (LMD) Jochen Kifel, Min-Uh Ko, Thomas Schopphoven		Numerical and Experimental Assessment of Cabin Noise Transmission Loss for Piaggio P.180 aircraft Carmen Brancaccio, Giovanni Fusolo, Matia Barbarino, Felicia Palmiero, Giorgio Travostino, Roberto Citarella		Additional Mitigation Means against the	

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Poster Section

Poster Tours: October 14th (Day 1), 16:30-17:30 & October 16th (Day 3), 16:00-17:00

Poster ID 116 <i>'Flexible' Project Management: A guideline to forming, managing and leading student teams for technical projects</i> Estrafis Rigas, Thomas Kalamoukas, Athina Theochori, Konstantinos Giotis, Evangelos Ch. Tsirigannis, Christos Belogiannis, Panagiotis Kardaras, Antonis Spanias, Thodoris Donoglou, Michaelis Diakonikolis	Poster ID 235 <i>A Machine-Learning approach to predict the climate impact of North Atlantic flights</i> Natalia Kravchenko, Carlo Abate, Lydia Hill, Nicolas Bellouin	Poster ID 551 <i>A Modular Detection System for Tactical Conflict Scenarios in Multi-USPP U-space using IMM Filters and AMQP Messaging</i> Julio Sebastian Diaz Leon, Juan Vicente Balbastre Tejedor, Eduardo Gallo, Manuel González Rodríguez, Sandra Amarillo Vañó	Poster ID 408 <i>A Scalable Formation Flight Suitability Indicator for Network-Level Fuel Efficiency</i> Xiaoqing Deng, María Cerezo Magana, Ricardo Gazquez	Poster ID 291 <i>A simplified model for unsteady shock wave motion during inlet unstart: Novel results and emerging research paths with implications for high-speed propulsion</i> Carlos Carbojosa, Ángel Sanz-Andrés, Sergio Marín-Coca, Carolina Hernández-Badillo, Alejandro Martínez-Cava	Poster ID 471 <i>A study on the potential of hydrogen tankering in the design and operation of an air transport system with first generation hydrogen-powered aircraft</i> Sam Randerad, Pieter-Jan Proesmans, Alexei Sharanskykh	Poster ID 241 <i>Advanced Performance Analysis of Distributed Electric Propulsion using a Meshless CFD Simulation Approach</i> Roberta Bottiglieri, Viola Rossano, Joel Enrique Rivas Guerrero, Giuliano De Stefano	Poster ID 188 <i>Advancements in Liquid Hydrogen Aircraft Configuration Design and Assessment</i> Felix Fritzsche, Daniel Silberhorn, Vincenzo Nugnes, Tim Burschik, Michael Kotzem
Poster ID 62 <i>Aerodynamic Advances through Laminar Flow: A Conceptual Aircraft Design Study</i> Benjamin Fröhler, Petr Martinek, Jannik Häfely, Tobias Wunderlich, Martin Hepperle and Thomas Kilian	Poster ID 519 <i>Aeroelastic stability analysis of a missile/rocket configuration equipped with grid fins</i> Gonzalo García Valero, Keywan Salehi Parangua, Marcos Chimeno Mangúan, Pablo García-Fogeda Núñez	Poster ID E13 <i>Aeromedical System for Configurable Life-saving Evacuation and Rapid Aid (ASCLERA)</i> Ty Pruschke, Joshua Hector, Felix Loick, Justus Trost, Timon Helmich, Jan Weisgerber, Vincenzo Nugnes	Poster ID 237 <i>Air Traffic Demand Forecasting for Origin-Destination Airport Pairs using Artificial Intelligence</i> Alicia Serrano Ortega, Albert Ruiz Martín, Clara Argerich Martín	Poster ID 212 <i>Analytical and Experimental Investigation of a Novel Piezoelectric Actuator Configuration for Resonant De-icing Applications</i> Yohan Sabathé, Marc Budinger, Valérie Budinger	Poster ID 287 <i>Architectural Design Considerations for Electric Power Systems in Future (More) Electric Aircraft</i> Andrea Reindl, Franciscus van der Linden	Poster ID 259 <i>Assessing AS9100D's Impact on Cost, Safety, Quality, and Logistics in Aviation, Space, and Defense</i> Bahiyar Eren	Poster ID 521 <i>ATM-EXCITE: Advancing Secure and Interoperable Civil-Military Airspace through Disruptive Digital Innovations</i> Patrizio Ricci, David García-Arrate, Alina Harbovska, Fernando Gómez-Hermoso
Poster ID 384 <i>Automated parametric FE modelling and optimisation of a composite aircraft wing</i> Nikolaos Ziakos, Andrea Cini	Poster ID E14 <i>Aviation Research Ecosystem Advanced Novel Approach</i> Radek Doubrava	Poster ID 97 <i>CEASIOMpy: learning aircraft design by computing</i> Giacomo Benedetti, Mengmeng Zhang, Jan B. Vos, Arthur Rizzi, Jesper Oppelstrup	Poster ID 61 <i>Collaborative Propulsion System Design: A Framework for the Sizing of a Plug-in-Hybrid-Electric Aircraft Powertrain</i> Niels Weber, Tim Burschik, Sparsh Garg	Poster ID 407 <i>Comparative Study of CFD Solvers in the Aerodynamic Analysis of a Miniature Unmanned Aerial Vehicle B. Syta, P. Czerwinski, R. Rogalski, S. Kachel</i>	Poster ID 489 <i>COMPARATIVE WING STIFFNESS ANALYSIS OF A DYNAMICALLY-SCALED MODEL AND A REFERENCE AIRCRAFT TAKING INTO ACCOUNT DIVERSE MANUFACTURING TECHNOLOGIES</i> Jarosław Młaczarczyk, Robert Rogalski, Aleksander Olejnik	Poster ID 252 <i>Comparison of contrail mitigation strategies prioritising sustainable aviation fuel distribution on specific routes and airports</i> Lukas Söfing, Liesbeth Wijn, David Engler Faleiros, Timothy van der Duim	Poster ID 234 <i>Conceptualization and Numerical Optimization of an Energy-Efficient Electrothermal Ice Protection System for a Ducted Fan Propeller</i> Cédric Obafolu, Sébastien Neveling, Rainer Bartels
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