16th EASN International Conference on

Innovation in Aviation & Space towards sustainability today and tomorrow

Final Agenda

DAY 1 | 27.10.2026	
8:30 16:00	Registration
ROOM	Lecture Hall 1-2-3
9:00 9:15	Conference Opening & Welcome Addresses
9:15 9:45	KEYNOTE SPEECH *EXAELIA: pioneering European flying testbeds to drastically cut long-range flights' climate impact by 2050* by **Mr. Martin Nagelsmit** | Netherlands Aerospace Center (NLR)
Chaired by	**Prof. Spiros Pantelakis** | Conference co-Chairman
9:45 9:55	Signature of MoU between EUROAVIA and EASN Association
9:55 10:55 Panelists	DISCUSSION PANEL *Integrating Start-Ups in the European Aerospace Sector and Exploiting them to Enhance Europe's Economy* **Mr. Andreas Boschen** | SESAR JU, **Mr. Bruno Darboux** | Airbus & Aerospace-Valley, **Mr. Axel Krein** | Clean Aviation JU, **Dr. Angela Vozella** | CIRA, Italy
Moderated by	**Prof. Maria Angeles Martin Prats** | University of Seville, Spain
10:55 11:25	Coffee Break

ROOM	Lecture Hall 1	Lecture Hall 2	Lecture Hall 3	05-108	05-112	05-114	05-117	05-053	05-059
Session Title	Experimental Aircraft for European Leadership in Aviation (EXAELIA Project) PART I	Innovation in UAVs: Design, Optimization, Flight Testing and Emerging Technologies PART I	Novel Propulsion Architectures	Hydrogen & Energy Storage PART I	Impact of very fast events and hazards on the sustainability of aerospace structures *Supported by EUCASS*	Data-Driven Engineering Design for Aerospace Manufacturing and Systems PART I	Certification & Regulatory Frameworks in Aviation	Sustainability and circularity in the design process in aviation	Air Traffic Management (ATM) and Airports Subjects PART I
Session Chair	**Mr. Johan Kos** (Netherlands Aerospace Center (NLR), Netherlands)	**Prof. Kyros Yakinthos** (Aristotle University of Thessaloniki, Greece)	**Mr. Nicolas Tantot** (SAFRAN Aircraft Engines SA, France) & **Dr. Ralf von der Bank** (Rolls-Royce Deutschland Ltd & Co KG, Germany)	**Prof. Andreas Strohmayer** (University of Stuttgart, Germany)	**Prof. Christine Espinosa** (ISAE-SUPAERO, France), **Prof. Alain Merlen** (Lille University, France) & **Prof. Michel Arrigoni** (ENSTA/IRDL, France)	**Prof. Timoleon Kipouros** (Cranfield University, UK) & **Prof. Ola Isaksson** (Chalmers University of Technology, Sweden)	**Prof. Joël Jézégou** (ISAE-SUPAERO, France)	**Prof. Angelos Filippatos** (University of Patras, Greece) & **Ms. Ligeia Paletti** (German Aerospace Center (DLR), Germany)	**Prof. Octavian Thor Pleter** (University Politehnica of Bucharest, Romania)
11:25 11:45	**Experimental Aircraft for European Leadership in Aviation (EXAELIA): Overview of First Results and Initial Roadmaps** ***Johan Kos***, *Timeea Pacala, Christoph Mertens*	**Continuous Bi-directional Trailing Edge Morphing using Hyperelastic Solid Hinges** ***Jan Tikalsky***	**European aero-engine research policy from NPA Technology Cluster perspective addressing the upcoming 10th Research Framework Programme** ***Ralf von der Bank***, *Nicolas Tantot*	**Configuration for Optimal Integration of Hydrogen Fuel for a Medium-Range Airplane** ***Vishwanath Nagaraj***, *Roelof Vos*	**Inputs for laser solutions for space debris mitigation or space transportion** *M. Schneider, H. Hichami, S.A.E. Boyer,* ***M. Boustie***, *M. Arrigoni, C. R. Phipps, S. Boujnah, S. Oriol, S. Paolacci-Riera, E. Bartnicki*	**Learning-based enhancement of augmented Lagrangian coordination for distributed multidisciplinary design optimization** *Edward Louis, Ahmed Bayoumy,* ***Michael Kokkolaras***	**Simulation-Based Framework for UAS Operational Risk Assessment and Compliance with EASA and Transport Canada SORA-Based Regulatory Approaches** ***Nezar Sahbon***, *Anna Mazur, Michał Welcer Piotr Ginter, Jay Matlock, Patrick Heaney, Afzal Suleman*	**The impact of circular economy on the future European long-range aircraft** ***L. Paletti***, *P. Panagiotis, D. Markatos, S. Pantelakis, G. Wende, A. Filippatos*	**Design and Integration of an AI-Based ATC Communicator within a Digital Co-Pilot for Single Pilot Operations** ***Yasir Mahmood Khan***, *Marko Radanović*
11:45 12:05	**Design of a SAF Long Range BWB in the frame of the European Project EXAELIA** ***J. Gauvrit-Ledogar***, *V. Priasso, C. Toussaint, A. Trémolet, E. Nguyen Van, S. Defoort, M. Peschmann, P. Brunow, G. Starck, O. Atinault*	**Aerodynamic Performance of Droop Leading Edge Aerofoils at Low Reynolds Numbers** ***Shanshan Xiao***, *Mark Jabbal, Humberto Medina, Mohammadreza Amoozgar*	**Revolutionary Propulsion: From an Idea to a Proven Concept. And Beyond?** ***Arne Seitz***	**Assessment of Regional to Long-Range LH2-Powered Aircraft with Conformal Wing Tanks** ***Marc Engelmann***, *Chang Xu, Nils Roth, Barlas Türkyilmaz*	**Aeronautical composite structure dismantling using laser shock processing** *Bryan Better, Aboulghit El Malki Alaoui, Michel Arrigoni,* ***Christine Espinosa***, *Serge Guetta*	**Detecting Critical Transitions in Aerospace Technology Systems Using Empirical Dynamic Modeling** ***Massimo Panarotto***	**Improving Efficiency and Modularity for the Certification of New Airborne Hardware** ***Samuel Kleine***	**From sustainability criteria and LCA data to priorities for aircraft design: an introductory approach** ***P. L. Y. Léonard***, *E. A. Arnardóttir, S. Oguz, S. I. Hallstedt, J. W. Nylander*	**Experiments with a Low-Cost True North Heading Sensor for General Aviation** ***Cristian Emil Constantinescu***, *Octavian Thor Pleter, Irina Beatrice ștefănescu*
12:05 12:25	**Conceptual design of a long-range aircraft with liquid-hydrogen propulsion and a truss-braced wing** ***Lucas Kugler***, *Tobias Hecken, Carsten Liersch, Mauro Minervino, Domenico Quagliarella, Giovanni Andreutti, Frederico Cardoso, Victor Martin Sancho*	**Experimental investigation of corrugated airfoils at low Reynolds numbers** ***Wilm Friedrichs***, *Michael Ammann, Patrick Jenni, Marius Banica*	**Challenges for integration of direct H2 combustion concepts in innovative aircraft layouts** *Vlahostergios Z.,* ***Panagiotou P.***, *Misirlis D., Yakinthos K.*	**Design Criteria Definition of Liquid Hydrogen Fuel Systems for Aircraft Application** ***Valentina Villada Quiceno***, *Tim Burschyk, Jan Haemisch, Clément Foussat*	**Numerical modelling of the thermomechanical loading induced by electric fault arc in aeronautical electrical network** ***M.C Henao Peñaranda***, *C. Rond, P. Longere, M. Malatesta*	**The Value of First-Order Relationships in Decision-Making Process** *Timoleon Kipouros, Ola Isaksson,* ***Anna-Maria Rivas McGowan***	**Forecasting the Socioeconomic Impacts of Innovative Air Mobility: A Welfare Assessment Framework** *Mahdi Gholami, Anna Palaiologk, Kyriaki Daskaloudi,* ***Eva Palaiologk***	**Eco-Efficiency Assessment of Hydrogen Aircraft APU Maintenance Strategies: Integrating Economic and Environmental Criteria** ***Dhrumit Jignesh Upadhyay***, *Ahmad Ali Pohya, Gerko Wende*	**GRAPH-DECIDE: A Graph-Based, Multi-Criteria Decision-Support Framework for Air Traffic Management under Delay and Capacity Uncertainty** *Elahi Concha, Paul Hernandez, Ismini Stroumpou, Josep Lluis Larriba-Pey,* ***Marc Ucelayeta***
12:25 12:45	**Design of Liquid Hydrogen Fuelled Blended Wing Body Aircraft for Long Range Missions** ***Joseph Lok Chun Chan***, *Craig Lawson, Howard Smith*	**γ-[Re]_θ-SST parameter and inflow turbulence condition tuning for corrugated airfoils at low Reynolds numbers** ***Marius Banica***	**Ultrashort and Thin, Slotted Adaptive Nacelle for Ultra-High Bypass Ratio Turbofans** ***Nicolás García Rosa***, *Nicolas Doué, Nicolas Tantot*	**Hydrogen strut braced wing aircraft a common ONERA / DLR evaluation and benchmark model** ***Eric Nguyen Van***, *Lucas Kugler, Michael Kotzem, Enrico Stragiotti, Dimitrios Glenis, Sebastian Wöhler, Sebastien Defoort*	**Laser Ablation Propulsion for space debris removal: impulse generation by aluminum and role of irradiation parameters** ***Battocchio P.***	**Data-Driven Engineering Design for Aerospace Manufacturing and Systems: Promise vs. Perils** ***Anna-Maria Rivas McGowan***, *Timothy W. Simpson*	**Certification of Hydrogen-Powered Aircraft: A Three-Layer Mapping Approach to Address Regulatory Readiness, Knowledge Gaps, and Safety Risks** ***Jeroen Tuijp***, *Anna Biancotto, Ferran van Kan, Helder Xavier Nunes, Rui Dinis Ferreira, Vinícius Santini Lobo*	**Value-driven decision-making methodology to identify the best cargo door latching mechanism considering performance, supply chain, sustainability and reliability criteria at the same time** ***Panagiotis Pantelas***, *Giuseppa Donelli, Carlos Cabaleiro de la Hoz, Hanno Niemann, Angelos Filippatos, Dionysios Markatos, Luca Boggero, Björn Nagel*	**Aggregated metrics for the evaluation of ATM efficiency** ***Gabriele Sirtori***, *Laurent Joly*
12:45 13:05	**Modelling and preliminary design of liquid-hydrogen fuel systems for future long-range aircraft** ***Enrico De Betta***, *Damiano Tormen, Michael Quaglia, Francesco Mastropierro, George Lampeas, Lucas Kugler, Joseph Chan*	**Performance Investigation of UAV Propellers via Wind Tunnel Testing** ***A. Polychronaki***, *A. Chasouras, P. Panagiotou*	**Development of a Hydrogen-Fuelled Opposed-Free-Piston Engine Test Rig for Characterising Performance and NOx Emissions** ***Joseph Harper***, *Andrew Rolt, Gaurav Singh, Vishal Sethi*	**Results of the PRECISE Project: Liquid hydrogen fuel quantity indication systems for future aircraft** ***Adrian Winter***, *Valentin Weinig, Ali Alijev, Yannick Pott, Kay Kochan, Oliver Burkhard*	**Assessing Post Explosion Conditions in Space Launcher Breakup Scenarios for Debris Prediction** ***Virot F.***, *Bellenoue M.*	**Structured framework for innovative aircraft design with probabilistic solution spaces using Bayesian networks and the Advanced Morphological Approach** ***Vladislav T.Todorov***, *Dmitry Rakov, Andreas Bardenhagen*	**Certification of Hydrogen-Powered Aircraft: Lessons Learned and Mitigation Strategies for Risk-Informed Development** *Jeroen Tuijp, Anna Biancotto, Ferran van Kan,* ***Helder Xavier Nunes***, *Rui Dinis Ferreira, Vinícius Santini Lobo*	**Assessing Social Impact for Sustainable Aircraft Design through an SLCA Framework** *D. Markatos, A. Pasqualone, S. Pantelakis,* ***A. Filippatos***	**Predicting Go-Around Likelihood: Towards the Development of an EASA-Compliant AI-Based Decision Support System** ***Aleyna Erdogan***, *Johann Maximilian Christensen, Frank Köster, Elena Hoemann, Sven Hallerbach*
13:05 13:25	**Retractable Vortex Generators (RVGs) integration in high lift devices** ***A. Gaz***, *M. Minervino, F. A. Cardoso, V. M. Sancho*	**A Fast Design Methodology for eVTOL UAV Propeller Considering Noise Emissions** ***Jan Šimák***, *Miroslav Šmíd*	**Thermal Management in Emerging Propulsion Architectures: Opportunities and Design Challenges** ***Carlos Xisto***, *Anders Lundbladh*	**Optimised Dished-End Profiles for Lightweight LH2 Tanks: An Analytical-FEA Framework** *Juan. E. Arjona Rodriguez,* ***Rodrigo Gomez Vazquez***, *Laurens Tanzer*	**Modelling of hypervelocity impacts of debris using a meshless gamma-sph scheme** ***Anthony Collé***, *Jérôme Limido*	**Adaptive Production Planning in Aerospace Manufacturing through the Integration of Knowledge Graphs, Simulations and Cyber-Physical Systems** ***Thomas Hanl***, *Philip Satwan, Yassine Ghanjaoui, Jörn Biedermann*	**Scaffolding Regulatory Compliant Data Products for Aerospace Data Ecosystems** ***Henning Berg***, *Cansu Tanrikulu, Jonas Klumski, Jérémy Mambrini, Achim Hofmann, Kai Lindow*	**Material Selection for 3D-Printed CubeSat Structural Subsystems Using a Holistic Sustainability Assessment Framework** ***T. Kalampoukas***, *N. Raptis, E. Bilalis, D. Markatos, A. Filippatos*	**Improved Aircraft Protection on Ground Through Heterogeneous Sensor Fusion: an Experimental Assessment** ***Angelo Manco***, *Federica Vitiello, María Carmela Mas Marhuenda Giancarlo Gelao, Gabriella Gigante, Piero Migliorato, Angela Vozella, Paolo Veneruso, Enrico Miccio, Flavia Causa, Roberto Opromolla, Giancarmine Fasano, Pablo Manuel Guzmán Manzanares, Francisco Javier Garrido Hernández, Francisco Javier Pérez Grau, Giovanni Franzini*
13:25 13:45			**Reduced Order Thermodynamic Modeling of an Opposed-Free Piston Engine for a Composite Cycle Gas Turbine Aero Engine** *Krzysztof Danielak,* ***Joe Harper***, *Buchan Deneys Schreiner, Vishal Sethi*						

13:25 14:30 Lunch Break

ROOM	Lecture Hall 1	Lecture Hall 2	Lecture Hall 3	05-108	05-112
Session Title	Experimental Aircraft for European Leadership in Aviation (EXAELIA Project) PART II	Innovation in UAVs: Design, Optimization, Flight Testing and Emerging Technologies PART II	Hydrogen Fuels Cell, Electric and Hybrid Propulsion Aspects for Future Aircraft	Hydrogen & Energy Storage PART II	Advanced Technologies for Adaptive, Connected and Resilient Satellite Systems
Session Chair	**Mr. Johan Kos** (Netherlands Aerospace Center (NLR), Netherlands)	**Prof. Kyros Yakinthos** (Aristotle University of Thessaloniki, Greece)	**Prof. Carlos Xisto** (Chalmers University, Sweden) & **Dr. Arne Seitz** (Bauhaus Luftfahrt, Germany)	**Prof. Andreas Strohmayer** (University of Stuttgart, Germany)	**Prof. Ernestina Cianca** & **Prof. Ernesto Limiti** (University of Roma "Tor Vergata", Italy)
14:30 14:50	**Development of a Modular Flying Testbed for the Demonstration of Innovative Powertrains** ***M. Armbrust***, *D. P. Bergmann, N. Moebs, A. Strohmayer*	**Influence of payload on the design of a solar UAV to achieve year round operations** ***Hayden Mydland***, *Ruben E Perez*	**System-Level Modelling of a Recuperative Cathode Air Supply System for a Hydrogen-Fuel-Cell-Electric Regional Aircraft** ***T.S. Bakker***, *F. Ascione, J. Biesheuvel, R. Heukers, A.I. de Boer*	**Comparative Analysis of Energy Management Strategies for Battery-less Multi-Stack PEMFC Systems in Regional Aviation** *Bing Ni*, ***Cornelie Bänsch***	**Energy-Aware Opportunistic Connectivity for Earth Observation Satellites Using Commercial LEO Megaconstellation Relays** *M. A. Karimi, M. De Sanctis, T. Rossi*, ***E. Cianca***
14:50 15:10	**Multi-Scale Flying Testbed Strategy for Supporting the Development of Long-Range Liquid Hydrogen Tube-and-Wing Aircraft** ***Ferran van Kan***, *Kathrin Deck, Andres Jürisson, Roger Ballester Claret, Christoph Mertens*	**Drive Train Architectural Considerations and Design for the DLR High-Altitude Platform** ***Daniel Ackermann***, *Patrick Juchmann*	**Test Results for a 500 kW Hydrogen Fuel Cell-Electric Powertrain for Ground Demonstration** ***T. Luten***, *A.K. te Nijenhuis, R.C. van Benthem, D. Vogelsang, A. Pauw, T. Mrzelj, G. Tavčar, S. Posner, R. Schwarz*	**Thermal-Structural Modelling and Optimisation of LH2 Vacuum-Insulated Lattice-Core Sandwich Tank** ***I. Valais***, *C. Gayer, B. Gerhards, K.-U. Schröder*	**Adaptive Repurposing of Spaceborne Imaging Platforms for Non-Earth Observation** ***Alessia Speziale***, *Antonio Vito Montalbò*
15:10 15:30	**Multiscale Modular BWB FTB Design Benefits and Requirements** ***W. Widjaja***, *A. Gaz, C. Lawson, C. Villena Muñoz, O. Nistor*	**Energy harvesting from atmospheric vortices** ***E. Poquillon***, *J.M. Moschetta, J. Bordeneuve-Guibé*	**Design methodology for hydrogen-powered hybrid propulsion system architectures for short-range aviation** *Daniel Velasco-Perez*, ***Marcos Lopez-Juarez***, *Ricardo Novella, Josep Gomez-Soriano*	**Numerical study to assess the crashworthiness of a composite conformal LH2 tank** ***Bram Noordman***, *Rens Ubels*	**Robustness-Driven Design of W-Band GaN LNAs for Next-Generation Satellite Receivers** *S. Mostarda, S. Colangeli, P.E. Longhi, W. Ciccognani, A. Serino*, ***E. Limiti***
15:30 15:50	**On-Ground Common Infrastructure and Data Measurement Approach Supporting EXAELIA Flying Testbed Experimentation** ***A. Vitale***, *J. Orio, A. Bordei, K. Knepper*	**System Identification of a Lifting Body Fixed-Wing UAV Under Data Quality Constraints** ***Luke H. Peristy***	**On the Implementation and Assessment of the Solid and Permeable Ffowcs Williams–Hawkings Surfaces for Contra-Rotating Open Rotor Aeroacoustics** ***T. Tsaousidis***, *A. Gaitanidou, P. Oikonomou, V. Gkoutzamanis, A. Kalfas*	**Capacity Scale Effects in Power-to-Liquid Sustainable Aviation Fuel Production: A Techno-Economic and Project-Finance Assessment** ***Kubra Uygun***, *Hulya Cebeci*	**Dual-Band Ku/Ka Low-Noise Amplifier MMIC Development for Future Flexible Satellite Payloads** *Parand P., Colangeli S., Longhi P.*, ***Limiti E.***
15:50 16:10	**High fidelity static aeroelastic analysis of aileron spanwise effectiveness in flexible HAR wings** *Andriy Payenskyy*, ***Pamela Bugała***, *Magdalena Gronowska, Paweł Abratowski, Evangelos Filippou, Jurii Sodja, Andres Jürisson, Huub Timmermans*	**Influence of Servo Actuator Power Supply on the Modal Characteristics of an Unmanned Patrol Aircraft during Ground Vibration Testing** ***Szcześniak M.***, *Rogólski R., Olejnik A.*	**Rechargeable Battery-Integrated Islanded Grid Architectures for Highly Electrified Aircraft** ***Andrea Reindl***, *Georgi Atanasov, Franciscus van der Linden*	**APFEL – Analysis of Hydrogen Permeation Properties of Fiber-Reinforced Polymer Composites for High-Pressure Hydrogen Storage under Cyclic Loading** ***Tom Blümel***, *Rabea Klara Sahr*	**Integrated Evaluation of Radiation, Thermal and Atomic Oxygen Effects on Structural Materials for Low Earth Orbit Satellite Applications** ***Terlan Doğan***, *İrem Yanık, Sera İflazoğlu, İlknur Baylakoğlu, Hande Girard*
16:10 16:30	**A Holistic Sustainability Assessment Framework for Aircraft Conceptual Design** ***A. Filippatos***, *D. Markatos, G. Lampeas, S. Pantelakis*	**Strength analysis of the structure of an unmanned water surface - aerial platform that utilizes the wing in the ground effect made of composite materials** *Gerigk Mirosław Krzysztof*, ***Rykaczewski Dariusz***		**CryoTOAD – An Open-Source Cryogenic Tank Thermal model for Overall Aircraft Design** ***Romain Jan***, *Jean-Marc Moschetta*	**Space Network as a Service - Technologies for Flexible and Sustainable Space Networks** ***Ernestina Cianca***

ROOM	05-114	05-117	05-053	05-059
Session Title	Data-Driven Engineering Design for Aerospace Manufacturing and Systems PART II	CONCERTO: From Concept to Certification – Overcoming Technical and Regulatory Challenges in Aviation	LCA and LCE in Aviation	Air Traffic Management (ATM) and Airports Subjects PART II
Session Chair	**Prof. Timoleon Kipouros** (Cranfield University, UK) & **Prof. Ola Isaksson** (Chalmers University of Technology, Sweden)	**Mr. Charles Blondel De Joigny** (Dassault Aviation, France)	**Ms. Ligeia Paletti** (German Aerospace Center (DLR), Germany) & **Mr. Daniel Kan** (Netherlands Aerospace Center (NLR), Netherlands)	**Prof. Octavian Thor Pleter** (University Politehnica of Bucharest, Romania)
14:30 14:50	**Utilising AI and LLM for rigorous uncertainty construction** ***Petar Hristov***, *Alexander Kostadinov, Petar Tomov, Scott Ferson*	**Analysis of regulation gap and risk for disruptive aviation concepts: CONCERTO methodology** ***Joël Jézégou***, *Alexander Kieß, Sergio Pizziol, Christel Seguin, Jürgen Arnold, Giovanni Cilio, Eliano Simone Julie Renon, Anupam Abhishek*	**Life Cycle Assessment of the HEROPS flying fuel cell** *Kan DM.*, ***Scheers E.***, *De Witte PJ., Vroom M., Reekers M.*	**Proposal of an enhanced qualitative safety assessment framework for A-to-A HTOL suborbital operations in ATM using a EUROCONTROL-based risk modelling** *Errico A., Travascio L.*, ***Vozella A.***
14:50 15:10	**Expert-in-the-loop Explainable Artificial Intelligence to Support Design Engineering Decision Making** *Szymon Bobek, Grzegorz Nalepa*, ***Timoleon Kipouros***	**Towards Certification by Analysis for Aircraft Systems: Early Insights, Challenges and Opportunities from Initial Research Use Cases** ***Florian Jäger***, *Andreas Schäfer*	**A combined LCA and noise comparison of transportation modes on five typical intra-European routes** ***L. van Dam***, *E. Scheers*	**A Teamwork Assistant for Adaptive Human-AI Collaboration in Air Traffic Management: Findings from the DIALOG Project** *Marianna Groia, Bertille Somon, Souhir Ezzedini, Maria Emine Nylund, Erik Gøsta Nilsson, Morten Smedsrud, Antoine Pultier, Anne-Marie Brouwer, Efecan Yilmaz, Konrad Hagemann, Stefan Tenoort, Serge Pierre, Yannick Migliorini, Samy Chikhi*, ***Nicola Cavagnetto***
15:10 15:30	**Visual Analytics-Enabled Design Space Exploration of Aircraft Configurations from Top-Level Requirements** *Shubham S.*, ***Spinelli A.***, *Kipouros T.*	**Damage Models at Multiple Length Scales for Virtual Testing and Qualification/Certification by Analysis** ***Albertino Arteiro***, *Pedro J. Cunha, Denis Dalli, Paulo Teixeira Gonçalves*	**Introducing a new aerospace-specific life cycle assessment inventory** ***Michael P. Weinold***, *Achille Laurent*	**Massive Cherry-Picking Multi-Objective Air Traffic Flow Management Through Lexicographic Optimisation, Trade-Offs, Analysis and Fine-tuning** ***Marcos Moreno Solana***
15:30 15:50	**How Much Autonomy Should an Engineering Agent Have? Benchmarking LLM Harnesses for Airworthiness Verification** ***Alejandro Pradas-Gomez***, *Arindam Brahma, Ola Isaksson*	**Virtual EMA-Base Modal Validation of the CONCERTO Aircraft Actuation Test Bench** ***Alexopoulos Spyridon***, *Kelverkloglou Panagiota, Kostopoulos Vasilis, Lampeas George*	**A Novel Life Cycle Impact Assessment Method Tailored to Aviation Emissions** ***Félix Pollet***, *Thomas Planès*	**Towards a more flexible ATCO Rostering – key elements, implementation roadmap and alignment with current regulations** ***Michael Finke***, *Jana Meier, Marco Temme*
15:50 16:10	**Beyond Visualization: Explainable Ai For Complex Data Exploration** ***Raúl García Sánchez***, *Andrea Mancini*	**From Kerosene to Hydrogen: Experimental Foundations for Future Aviation Fire Standards** ***Rémi Ballet***	**Gauging the developments from environmental risk assessment to critical decision support, possibly as life cycle impact assessment, surfaced in simplified life cycle assessment in aeronautics** ***John Simpson***, *Torsten Moll, Maud Lemagnen*	**A Numerical Testbed for Analysing Air Traffic Controller Experience Complexity** ***Jana Meier***, *Marco-Michael Temme, David Seewald*
16:10 16:30	**On AI-Enabled Quality-Oriented Manufacturing Process Steering** *Emmanouil Stathatos, Panorios Benardos*, ***George-Christopher Vosniakos***		**Environmental performance of a single-use PET mandrel for one-piece CFRP air inlet ducts: A comparative life cycle assessment** ***Fabian Flüh***, *Sabrina Diniz, Karina Kroos*	**Operational Validation of Flow-Centric Regulation Planning for Pre-tactical Air Traffic Flow and Capacity Management** ***Zhengyi Wang***, *Thinh Hoang, Matteo Cavalletti, Leila Zerrouki*

16:30 17:30 Poster Session | Tour #1

17:30 21:30 Students & Young Researchers Networking Event - Boat trip

End of the 1st Day

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Final Agenda

DAY 2 | 28.10.2026

8:30 17:30	Registration
ROOM	Lecture Hall 1-2-3
9:15 9:30	Signature of MoU between the EASN Association and the Swedish Aerospace Research Center (SARC)
9:30 10:00	KEYNOTE SPEECH *Challenges for the future of avionics* by **Dr. Denis Bonnet** | Thales Group
Chaired by	**Prof. Andreas Strohmayer** | Conference co-Chairman
10:00 10:30	Coffee Break

ROOM	Lecture Hall 1	Lecture Hall 2	Lecture Hall 3	05-108	05-112
Session Title	ecoDESIGN and Life Cycle Assessment for Hybrid Electric Aircraft PART I	Innovation in UAVs: Design, Optimization, Flight Testing and Emerging Technologies PART III	Innovations in Aerospace Propulsion Systems PART I	Aviation's CO2 and non-CO2 emission. Assessing measuring, predicting, and mitigating impact	Space Robotics – Current and Future Trends in Research and Development
Session Chair	**Dr. Thomas Reichert** & **Mr. Peter Brantsch** (Fraunhofer-Gesellschaft, Germany)	**Prof. Pericles Panagiotou** (Aristotle University of Thessaloniki, Greece)	**Dr. Christos Mourouzidis** (Cranfield University, UK)	**Mr. Georgios Bampanis** (European Climate, Infrastructure and Environment Executive Agency - CINEA)	**Mr. Jonas Eisenmenger** (DFKI GmbH, Germany)
10:30 10:50	**Eco-Design and Life Cycle Assessment for Hybrid Electric Aircraft** ***Thomas Felix Reichert***, *Peter Brantsch, Gabriela Gromer*	**Airframe Multidisciplinary Design, Analysis and Optimization in Early Design Stages Using a Standardised Parametric Aircraft Description** ***Ögmundur Petersson***, *Sebastian Deinert*	**Assessment of Alternative Fuels and Tank Integration Across Aircraft Configurations** ***Sergio Jimeno Altelarrea***, *Utkarsh Gupta, Christos Mourouzidis, Atif Riaz*	**The UNIC Project: Objectives, Methodology, and Current Progress** ***Ortega I.K.***, *Berthier A.1, Bilyarski D., Crova F., Smallwood G., Owen B., Bellouin N., Crayford A.S, Durand E., Duplissy J., Myllys, N., Rönkkö T., Olenius T., Brown A., Nichman L., Corbin JC., Jalal N.O., Saukko E., Ntziachristos L., Schripp T.*	**Overview of AI methods and review of the current state of the art in space applications** *Mehmed Yüksel, Wiebke Brinkmann, Nayari Marie Lessa,* ***Jonas Eisenmenger***, *Udo Frese*
10:50 11:10	**High level LCA of low impact aircraft developed in Clean Aviation HERA project** ***Marco Fioriti***, *Felicia Molinaro*	**Surrogate-Based Aerostructural Optimization of a Composite Low-Reynolds-Number UAV Wing** ***Spyridon Kilimtzidis***, *Eleftherios Nikolaou, Panagiota Kelverkloglou, Vaios Lappas and Vassilis Kostopoulos*	**Engine-Aircraft Integrated Design for Hydrogen Propulsion, Application to a Family of Small to Medium Range Aircraft** ***Benoit Said***, *Christos Mourouzidis, Pavlos Rompokos, Ioannis Roumeliotis, Mohamed Aly Abdel-Raheem*	**Constraining the impact of volatile particulate matter on contrail cirrus forcing estimates – an output of the A4Climate project** ***Marc E. J. Stettler***, *Joel Ponsonby, Daniel Sauer, Johannes Schneider, Benjamin J. Murray, Jack Macklin, Alexander Vogel, Florian Ungeheuer, Julia David and Christiane Voigt*	**LunarCobot: Development of Servicing Modules for Multi Robot Operation Scenarios on the Lunar Surface** *Gewehr M., Al Barwani A., Ben Rajiba, Y., Cai D., Denz T., Gnilka L.-N, Kälble J., Kallis N, Koetting C., Lin X, Mallol M., Prang L., Sahli P., Sauerzapf R., Schaur J., Wagner H., Weismann S., Zimmermann Z., Klinkner, S.,* ***Lorenz Fedor Maurer***
11:10 11:30	**Analysis on critical and relevant raw materials for hybrid electric aircraft applications** ***Peter Brantsch***, *Gabriela Gromer*	**Applicability of Graph Neural Networks on Surface Field Predictions of Subsonic UAV Wings** ***Giorgos Efrem***, *Chris Pliakos, Pericles Panagiotou*	**Integrated Multidisciplinary Assessment of Shaft Power Transfer in a UHBR Geared Turbofan** *Sara Alão,* ***Christos Mourouzidis***, *Ioannis Roumeliotis, Raj Ghelani, Vassilios Pachidis*	**Environmental impact of a hydrogen-optimised multi-fuel propulsion system (HOPE Project)** ***Feijia Yin***, *Clémentin Léron, Francesca De Domenico, Arvind Gangoli Rao, Benjamin Percival, Ling Lim, Adnan Muslić and Moritz G. Kolb*	**Multi-Scenario Optimization of PID and Fuzzy Controllers for Astrobee Attitude Control** *Cristian Flores-Rodríguez, Ali Arshadi,* ***Juan Carlos Crespo***, *María Royo, Karl Olfe*
11:30 11:50	**Life Cycle Assessment of Aircraft Wing Structures: A Comparative Study of Aluminium and Carbon Fibre Composites** *Kelverkloglou P., Stavropoulou K., Kilimtzidis S., Neumann de la Cruz, Deborah, Rodríguez M., Kostopoulos V.,* ***Psarras S.***	**Aerodynamic shape optimization of airfoils under geometric constraints** *Ali Arshadi,* ***Dinusha Nethruwan Wijesinghe Wijesinghe Appuhamilage***	**CFD-Based Mission-Level Assessment of Powered Engine Installation Effects for Innovative Medium-Range Aircraft Propulsion** ***Odysseas Ziogas***, *Spyridon Antoniou, Pericles Panagiotou*	**Latest findings from large passenger aircraft emission measurement campaigns and PACIFIC follow-on activities** ***K. Seeliger***, *C. Renard, C. Voigt, G. Eckel, T. Grein*	**Inertial Parameter Identification for the NASA Astrobee Free-Flyer** *Ali Arshadi, Cristian Flores-Rodríguez, María Royo,* ***Juan Carlos Crespo***, *Karl Olfe*
11:50 12:10	**Environmental Impacts of Sustainable Aviation Fuels and Alternative Energy Vectors: Review of existing Life Cycle Assessment data** ***Ricardo Sendão***, *Helena Monteiro, Mário Ribeiro, Marco Fioriti*	**Two-Way Fluid-Structure Interaction Framework for Synthetic Jet Actuator Modelling** ***I. Agravat***, *M. Jabbal, A. Popov, J.P. Rouse*	Open Discussion	**ESCAPE: A transportable contrail chamber** ***Duplissy J***, *Koskenvaara H, Rantala P, Huuskonen U, Kolhinen V.S, Righi C, Elomaa T, Petaja T, Naukkarinen E, Dalmaso M, Berthier A, Ortega I.K*	**Reference Scenario and Operational Concept definition for In Space Assembly and Manufacturing Platform** ***Raphael Boissonnade***, *Nicola Guercio, Mathieu Deremetz*
12:10 12:30	*Open Discussion*	**From Drone to Sports Aerodynamics: A Road to Olympic Medal** ***Ali Arshad***, *Dinusha Wijesinghe, Toms Kaidalovs*		*Open Discussion*	**ASPERA – Autonomous Spacecraft Pose Estimation with Rendered and Augmented images: A robust VBN for Autonomous Spacecraft GNC in non-cooperative scenarios** ***N. Andres***, *H. Fougereau, B. Martinez Borrell, R. Moreau, C. Quivet, J. Ramos Montilla*

ROOM	05-114	05-117	05-053	05-059
Session Title	Data-Driven Engineering Design for Aerospace Manufacturing and Systems PART III	Sustainable Smart Composites: Cutting-edge Materials and Innovative Manufacturing Processes	Impact Assessment Studies in Aviation R&I: A Systematic Approach to Evaluating Technological and Operational Innovations	Air Traffic Management (ATM) and Airports Subjects PART III
Session Chair	**Prof. Timoleon Kipouros** (Cranfield University, UK) & **Prof. Ola Isaksson** (Chalmers University of Technology, Sweden)	**Prof. Liberata Guadagno** & **Dr. Raffaele Longo** (University of Salerno, Italy)	**Mr. Patrick Ratei** & **Mr. Prajwal Prakasha** (German Aerospace Center (DLR), Germany)	**Prof. Octavian Thor Pleter** (University Politehnica of Bucharest, Romania)
10:30 10:50	**A data-driven method for smart wind tunnel testing planning** *Spinelli A.,* ***Kipouros T.***, *Greenwell D.*	**Bridging Recycling Technologies and Material Design: Vitrimers for Sustainable Epoxy Composites** *Liberata Guadagno, Raffaele Longo, Marialuigia Raimondo, Luigi Vertuccio,* ***Rosamaria Russo***	**Enabling End-to-End Aviation Impact Assessment through a Digital Collaborative Framework** ***Andrea Mancini***, *Marko Alder, Raul Garcia Sanchez, Tawfiq Ahmed, Panagiotis Pantelas, David Wichter, Patrick Ratei*	**Innovation and Sustainability Efforts in Qatar Air Traffic Management and Hamad International Airport** ***Bwalya Junior Chongo***
10:50 11:10	**Interface Design and Digital Twins for Dimensional Control in Composite Assemblies** ***Kristina Wärmefjord***, *Rikard Söderberg, Diogo Toyoda*	**Reprocessability by Design: High-Performance Bio-Based Epoxy Vitrimers for Fiber-Reinforced Composites** *Liberata Guadagno, Francesca Aliberti, Luigi Vertuccio, Marialuigia Raimondo, Roberto Pantani,* ***Raffaele Longo***	**Operationalizing Impact Assessment Studies: from Study Definition to Implementation** ***Thierry Lefebvre***, *Andrea Mancini, Atif Riaz, Michel van Eenige, Alf Junior, Patrick Ratei*	**Validation of HYCON Multi-Link Architecture for Resilient Surveillance** ***Fadhil Firyaguna***, *Lena Kolb, Giancarlo Gelao*
11:10 11:30	**Data-driven multiscale modelling of buckling metamaterials for vibration mitigation and protection of airborne electronics** ***Daniel Yago***, *Diego Abad, Oriol Lloberas-Valls, Javier Oliver, and Juan Cante*	**Towards Smart Nylon: Electrically Responsive PA6 Composites for Aerospace Applications** *Guadagno L., Longo R., Aliberti F., Raimondo M., Cataura M.,* ***Vertuccio L.***	**Multi-Fidelity Aircraft Modelling for Integrated Impact Assessment of Technology R&I** ***Sergio Jimeno Altelarrea***, *Atif Riaz, Christos Mourouzidis, Utkarsh Gupta, Felix Brenner, David de la Torre, Patrick Ratei*	**Environmental aspects at the Airport Operations Center: current state and future perspective** ***Inbal Haas***, *Yves Günther, Jan Knichel, Oliver Pohling, Marcel Pulst*
11:30 11:50	**Determination of material model parameters for composite materials for aircraft structural design using machine learning** ***Q. Abboud***, *F. Hähnel, J. Markmiller*	**Towards Greener Aeronautical Composites: The Promise of Electrocuring** *Liberata Guadagno,Roberto Pantani, Raffaele Longo, Luigi Vertuccio,* ***Francesca Aliberti***	**Preliminary Impact Assessment Studies of Flight Operational R&I: Current Progress and Insights** ***Michel van Eenige***, *Alf Junior, Peter Hoogers, Ronald Grosmann, Sreyoshi Chatterjee, Maximilian Clococeanu, Andrea Mancini, Patrick Ratei, Thierry Lefebvre, Jordi Pons Prats, David de la Torre, Saskia van der Loo*	**Multistatic Passive Radar for ATM Surveillance: a simulation study in relevant environments** *Alberto Arana Ragel,* ***Martin Ummenhofer***, *Carla Menciotti, Alexandra Filip-Dhaubhadel, Diego Cristallini*
11:50 12:10	**Influence of 3D-Printed Mesh Energy Directors on Heat Generation in Ultrasonic Welding of Carbon Fiber-Reinforced LMPAEK Laminates** ***Marta Juanatey Muradas***, *Mohsen Bahrami, Massimiliano Russello*	**From Waste to Resource: Green Chemical Recycling of Bio Based Epoxy Composites** *Lorenzo Bonadies, Elisa Calabrese, Pasquale Longo, Annaluisa Mariconda, Liberata Guadagno,* ***Marialuigia Raimondo***	**Preliminary Impact Assessment Studies of Aircraft Technology R&I: Current Progress and Insights** ***Alf Junior***, *Michel van Eenige, Sreyoshi Chatterjee, Maximilian Clococeanu, Zvitlana Zhukovska, Andrea Mancini, Patrick Ratei, Peter Hoogers, Ronald Grosmann, Claire Sarrat, Thierry Lefebvre, Jordi Pons Prats, David De La Torre, Inge Mayeres*	**AIrfield: Regulation-Aware AI-Assisted FOD Reporting in Airport Operations — A Zagreb Airport Case Study** ***Koulalis I***, *Militsis N-M, Toumpas A, Xefteris V., Stipanovic I, Jurić M, Damjanović M, Quang T., Bushra N., Ioannidis K, Vrochidis S*
12:10 12:30	**Toward the industrialization of sequential ultrasonic welding for aerospace sector** *Mohsen Bahrami, Massimiliano Russello,* ***Marta Juanatey Muradas***, *Enrico Chemello, Elena Senin Rodriguez*	**Synthesis and development of inherently highly flame-resistant nylon for aerospace applications** *Veronica Balzano, Raffaele Longo, Liberata Guadagno, Pasquale Longo,* ***Annaluisa Mariconda***	**Assessing Near-Future Pathways for Sustainable Air Transport: An Impact Assessment Approach for Fleet Renewal and SAF Deployment** ***Patrick Ratei***, *Melissa Kühnle, Arianna Pasqualone, Cloe Matteo, Michel Guillaume, Dionysios Markatos, David de la Torre, Jordi Pons-Prats*	**Meteorological Operating Limitations for a Regional Air Mobility Network** ***Tim Schunkert***, *Lukas Asmer, Nico Flüthmann, Wolfgang Grimme, Alexandra Leipold, Marc Gelhausen*

12:30 13:30 **Lunch Break**

ROOM	Lecture Hall 1	Lecture Hall 2	Lecture Hall 3	05-108	05-112	05-114	05-117	05-053	05-059
Session Title	**ecoDESIGN and Life Cycle Assessment for Hybrid Electric Aircraft PART II**	**Innovation in UAVs: Design, Optimization, Flight Testing and Emerging Technologies PART IV**	**Innovations in Aerospace Propulsion Systems PART II**	**Digitalization of Manufacturing, sustainable manufacturing, multifunctional structure and MRO PART I**	**Circular Economy in Space**	**Data-Driven Engineering Design for Aerospace Manufacturing and Systems PART IV**	**Innovative Electroactive Morphing for disruptive and sustainable wing design**	**Hybrid Electric Regional Fuselage & Empennages (HERFUSE Project) PART I**	**Air Traffic Management (ATM) and Airports Subjects PART IV**
Session Chair	**Dr. Thomas Reichert** & **Mr. Peter Brantsch** (Fraunhofer-Gesellschaft, Germany)	**Prof. Pericles Panagiotou** (Aristotle University of Thessaloniki, Greece)	**Dr. Christos Mourouzidis** (Cranfield University, UK)	**Mr. Georgios Bampanis** (European Climate, Infrastructure and Environment Executive Agency - CINEA)	**Dr. Kai Lindow** (Fraunhofer IPK, Germany) & **Prof. Miguel Olivares-Mendez** (University of Luxembourg, Luxembourg)	**Prof. Timoleon Kipouros** (Cranfield University, UK) & **Prof. Ola Isaksson** (Chalmers University of Technology, Sweden)	**Dr. Marianna Braza** (CNRS, France)	**Mr. Fabrizio Leone** (LEONARDO, Italy)	**Prof. Octavian Thor Pleter** (University Politehnica of Bucharest, Romania)
13:30 13:50	**Environmental impact assessment of a Fuel Cells Stack in ELECTROPLANE-TEC project** ***Mario Antonio Solazzo***, *Lidia Travascio, Angela Vozella, Antonio Pagano*	**Fast Lane Drone Development: How Drone manufacturers can easily test their systems without the need of a specific category approval** ***Jan-Frederick Schön***, *Paul David Lieten, Nadine Dörge, Yvonne Minnich*	**Preliminary Sizing, Performance and NOx Reduction Potential of a Hybrid, Hydrogen Gas Turbine Integrated with Solid Oxide Fuel Cells (FlyECO Project)** ***Evangelia Pontika***, *Stefanie de Graaf, Jan Zanger, Daniel Ewald, Panos Laskaridis*, *Askin Isikveren*	**Towards LES-Assisted Turbomachinery Design (SCI-FI-TURBO Project)** *Michael Bergmann,* ***Georgios Goinis***, *Sutharsan Satcunanathan, Alexander Bleh*	**Environmental impact of large constellations using the space debris THEMIS indicator** ***Michahelles M.***, *Muciaccia A., Lück D., Retagne W., Colombo C.*	**A Holistic Sustainability Framework for Early-Stage Aircraft Conceptual Design Using Bayesian Networks** *D. Markatos, T. Kipouros,* ***A. Spinelli***, *A. Filippatos*	**Experimental investigation of the aerodynamic performance increase of an A320 morphing wing prototype in subsonic regime** ***Abou Khalil J.***, *Asproulias I., Maynard N., Delon X., El Akoury R., Harran G., Doll C., Rouchon J-F., Braza M.*	**Innovative Fuselage Structural Concepts for the Integration of Hydrogen Technologies into Regional Aircraft** ***Ana Sánchez Algarra***, *Deborah Neumann de la Cruz, María Rodríguez-Montes*	**Advanced conflict resolution algorithms and operational scenarios in ASAS simulator** *Catalin Nae,* ***Ana-Maria Bordei***, *Mihnea Diței*
13:50 14:10	**Environmental impact assessment of the innovative Long-Range Aircraft in EXAELIA project** ***Mario Antonio Solazzo***, *Lidia Travascio, Angela Vozella*	**A Multi-Criteria Decision Framework for Operational Benchmarking and Capability Optimization of Unmanned Aerial Systems** *Stylianos Adamidis, Eleftherios Karatzas, Michail Karalis, Gavriil Gavriilidis,* ***Nikos Monokrousos***, *Kyriakos Grammatikos*	**Objective-Based Energy Management Strategies for Hybrid Electric Propulsion Systems** ***Evangelia Pontika***, *Panos Laskaridis, Timos Kipouros*	**Numerical Modelling of Fluid-Structure Interaction on Wings and Aeronautical Structures in Realistic Conditions (FALCON Project)** ***Denis Ricot***, *R. Jaeger, I. Cheylan, J. Jacob, R. Cuidard, Y. Detandt, J.Favier*	**A Preliminary Requirements-to-Design Framework for Circular Satellite Systems** ***T. Kalampoukas***, *D. Markatos, A. Filippatos*	**Adaptive Test Prioritization for Drone Communication Software: A Constrained Bayesian Contextual Bandit Approach** ***Guillemette Clouzeau***, *Joan Kamurali, Samuele Ramello, Morten Larsen*	**Aerodynamic performance increase through numerical simulation of a morphing A320 wing prototype in transonic regime** ***Abou Khalil J.***, *Asproulias I., Marouf A., Maynard N., Delon X., El Akoury R., Hoarau Y., Rouchon J-F., Braza M.*	**Innovative Floor Structure Concepts and Enabling Technologies for the Integration of Hybrid-Electric Regional Aircraft** ***Marc Mineur***, *Bob Everaert, Tom De Baere, Steven Van Camp, Rashad Fiaz*	**Simulation-Based Assessment of TBO and xCAS Concepts** ***Sandra Nichifor***, *Catalin Iordache, Alexandru Dobrescu, Catalin Nae*
14:10 14:30	**Life Cycle Data Management in Aviation: Attributional and Prospective LCA approaches – Example of an Aircraft Rudder Material and its Associated Data Gaps** ***Peter Brantsch***, *Aude Marie Bechu, Sven Wuestenhagen, Ralf Schlimper, Alexis Laurent, Carl-Christoph Höhne*	**Connectivity-Constrained Risk-Aware Planning and Monitoring Framework for BVLOS UAS Operations** ***Stefano Primatesta***, *Gianluca Scopelliti, Luca Testa*	**Operability Analysis and Control Structure Characterisation of a Gas Turbine SOFC Hybrid for Hydrogen-Fuelled Commuter Aircraft** ***Muhammad Haad Shaikh***, *Evangelia Pontika, Argyrios Zolotas, Panagiotis Laskaridis*	**Overview the EU ROSAS project: RObust simulation Systems exploiting AI based turbulence models and hight-fidelity algorithms** ***Vincent Couaillier***	**Toward Circularity in Space: Evaluating and Operationalizing the Circular System Framework for Satellite Reuse** *Bernd Michael Weiss, Mohamed Elnourani,* ***Anna Öhrwall Rönnbäck***, *René Laufer*	**Evaluation of Data Driven Architectures for Virtual Thermal Sensing in Brushless Motors Using Fiber Bragg Grating Sensors** *Brett Schaus, Antonio Costantino Marceddu, Matteo Bertone, Alessandro Aimasso, Bartolomeo Montrucchio, Paolo Maggiore,* ***Matteo Davide Lorenzo Dalla Vedova***	**Numerical study of travelling and standing wave morphing on an A320 wing prototype in subsonic regime at Reynolds number of 1 million** *El Akoury R.,* ***Asproulias I.***, *Maynard N., Delon X., Abou Khalil J., Marouf A., Hoarau Y., Rouchon J.F., Braza M.*	**Topology optimization of aircraft fuselage frame** *Bartosz Radej,* ***Rafał Żurawski***	**Air risk assessment for long-range UAS operations under U-space** ***Patrick Le Blaye***, *Christel Seguin, Tatiana Prosvirnova, Sergio Pizziol*
14:30 14:50	**Screening Life Cycle Assessment of Bio-based Composite Access Panel for Trainer Aircraft: Environmental Hotspots and Future Circular Pathways** ***Gyu-Eun Cho***, *Torsten Müller, Ahmed Mysara, Marvin Veil, Korhan Şahin*	**AltaRica for Small UAS Certification: A Model-Based Safety Analysis Approach to AEP-83** ***Olivier Cornes***, *Tatiana Prosvirnova, Christel Seguin*	**The design of a hybrid turbo-electric propulsion with fuel cells for a hybrid regional aircraft with a capacity of 80 passengers and a range of 1,000 km. An assessment of the effectiveness of integrating fuel cell with a hybrid propulsion system** ***Maksym Kirichkov***, *Yurii Ulitenko, Igor Kravchenko*	**Digital Twins of Composite Parts: Structure and Data Acquisition along the Life Cycle (TOSCA & COMPASS Project)** ***Christian Eitzinger***, *Denis Krajnc, Manuel Ederer*	**Solar-Cycle Effects on Satellite Disposal Compliance in Low Earth Orbit** ***Divya Manivannan***	**Dynamic Modulation Switching and Real-Time Kalman Filtering for Airborne RSSI-Based Localization in High-Power Rocketry Missions** *Dimitri Agostino Carrer, Kyriakos Koutsoukis, Antonis Kyvellos,* ***George Chatzopoulos***, *Anna Christina Markaki, Konstantinos Drakakis, Maria Roupina*	**Numerical analysis of embedded actuators effects on an A320 morphing wing prototype for aerodynamic performance enhancement** ***R. Gauthier***, *Y. Hoarau, A. Marouf, M. Braza, J. Vos*	**Manufacturing Strategy for an Integrated Composite Fuselage Lateral Panel with one-shot Liquid Resin Infusion** ***Eneritz Cereza***, *Peio Olaskoaga, Maialen Garaigordobil*	**Real-Time Distributed Client–Server Simulation for Trajectory Management of UAS in a Structured Urban Airspace Network** ***Ana-Maria Bordei***, *Florentin șperlea*
14:50 15:10	**Economic and Environmental Feasibility of Hybrid-Electric Commuter Aircraft** ***Chung-Huan Liu***, *Florent Lutz*	**Validation and Deployment Of RF and Remote ID Sensor Systems for Monitoring U-space Traffic** ***Călin Andrei Badea***, *Dick Bouwhuis*	**Low-temperature PEM fuel cell air supply system architecture optimization for regional aircraft** ***F. Ascione***, *J. Biesheuvel, A.J. de Boer*	**Composing Digital Product Passports to Support Remanufacturing in Aviation (COMPASS Project)** ***Julian de Marchi***, *Erik Baalbergen, Annemoon de Groen, Anne van Vught*	**An Optimization Framework for the Conceptual Design of Hybrid Microsatellite Launch Vehicles with Environmental Assessment** ***Girolamo Musso***, *Iara Figueiras, Alain de Souza, Frederico Afonso, Fernando Lau*	**Review of Data-Driven Surrogate Models for Structural Analysis of Mounting Systems for Electrified Aero Engines** ***Patrick Y. Schmiede***, *Lukas Richter, Stefanie de Graaf*	**Experimental and numerical study of a morphing a high-lift wing-flap configuration through a system of actuators forming a "live-skin"** ***X. Delon***, *J. Abou Khalil, N. Maynard, A. Marouf, Y. Hoarau, Jean-François Rouchon, M. Braza*	**Data-Driven Models for Aeronautical Design and Optimization** ***Gonzalo Rubio***, *Fermín Gutiérrez, Miguel Jaráiz, Ángel Ladrón, David Ramos, Miguel Sánchez-Domínguez, Nicolás Becerra-Zúñiga, Marta Arnabat-Martín, Andrés Mateo-Gabín, Sven A. Lanzan Ferran, Javier Rozalén, Fernando R. Sánchez, Lucas Lacasa, Eusebio Valero*	**Automatic Unmanned VCA Operations in Mixed Airspace Environment: the Case of OPERA Project** ***Boyan Iliev***, *Marko Radanović*
15:10 15:30	***Open Discussion***	**A Microservice Architecture for UAM Fleet Control Stations in U-space Environments** ***Enno Nagel***, *Sukhbir Singh, Miguel Angel Fás Millan*	**High-Temperature PEM Fuel Cells for Hydrogen Aviation: Technology Evolution and Integration Perspectives** ***Meriem Fikry***, *Lily Koops*	**Circular recycling of thermoplastic composite laminates (CompSTLar Project)** ***M. Wilms***, *K. Satish, S. Herkströter, Dr. H. Janssen, Prof. Dr. C. Brecher*	**Managing Requirements Uncertainty in Early-Phase Spacecraft Design: An Expert-Informed Approach to Design-for-Spacecraft-Reuse** *Bernd Michael Weiss,* ***Anna Öhrwall Rönnbäck***, *René Laufer*	**Data-Driven Calibration of GEKO Turbulence Model Coefficients for Transonic Aerodynamic Flows** ***Nicolò Piersanti***, *Andrea Ferrero, Viola Rossano, Joel Guerrero*	**Machine-Learning-based Reduced-Order modelling of a travelling wave morphing system on an A320 wing prototype** ***Maynard N.***, *Marouf A., El Akoury R., Abou Khalil J., Hoarau Y., Rouchon J.F., Braza M.*	***Open Discussion***	

15:30 16:00 **Coffee Break**

ROOM	Lecture Hall 1	Lecture Hall 2	Lecture Hall 3	05-108	05-112	05-114	05-117	05-053	05-059
Session Title	**FACELIFT project: innovative fluidic actuators to improve stealth and maneuverability of military aircraft**	**Innovation in UAVs: Design, Optimization, Flight Testing and Emerging Technologies PART V**	**Innovations in Aerospace Propulsion Systems PART III**	**Digitalization of Manufacturing, sustainable manufacturing, multifunctional structure and MRO PART II**	**Space Technologies & Applications**	**Digital Engineering for Aerospace Systems PART I**	**Are we ready to design for sustainability?**	**Hybrid Electric Regional Fuselage & Empennages (HERFUSE Project) PART II**	**Fuel Cell Propulsion System (Clean Aviation Project FAME)**
Session Chair	**Mr. Jernej Drofelnik** (Pipistrel Aircraft, Slovenia) & **Mr. David Ferris** (Cedrat Technologies, France)	**Prof. Pericles Panagiotou** (Aristotle University of Thessaloniki, Greece)	**Dr. Christos Mourouzidis** (Cranfield University, UK)	**Mr. Georgios Bampanis** (European Climate, Infrastructure and Environment Executive Agency - CINEA)	**Prof. Gustavo Alonso** (Universidad Politécnica de Madrid, Spain)	**Dr. Carlos Cabaleiro de la Hoz** & **Mr. Francesco Torrigiani** (German Aerospace Center (DLR), Germany)	**Prof. Ola Isaksson, Prof. Sophie Hallstedt** (Chalmers University of Technology, Sweden) & **Prof. Timoleon Kipouros** (Cranfield University, UK)	**Mr. Fabrizio Leone** (LEONARDO, Italy)	**Dr. Kai Wicke** (Airbus, Germany)
16:00 16:20	**Switching Jet Actuators for Separation Control on Lifting Surfaces** ***Julien Weiss***, *Stephan Löffler, Thomas Grund, Jérôme Delva, Luka Porenta, Jernej Drofelnik*	**AI-enabled control architectures for autonomous piloting of unmanned aircraft systems** ***Tamas Szakacs***	**Dynamic Analysis of Double-helical Planetary Gearboxes using Multi-Body Simulation** ***Gieger P.***, *Krämer Ph., Weigand M.*	**Pushing Fibre Reinforced Polymer Inline Inspection Speeds to the Next Level (TOSCA Project)** ***Manuel Ederer***, *Lukas Hartung, Mula Naveen Kumar, Pravin Luthada, Khang Nguyen, Christian Eitzinger*	**Development of an optimization model for fission-based space nuclear power systems** *Fares M,* ***Boissonnade R***, *Roser X, Lacambre J-M*	**Accelerating the Development of Hybrid-Electric Regional Aircraft: a SysML v2 Environment for Digital Design and Verification** ***Francesco Torrigiani***, *Jasper Bussemaker, Sparsh Garg, Carlos Cabaleiro, Fabien Retho, Olexiy Kupriyanov, Klara Ziegler Juan Manuel Lorenzi, Jean-Marie Gauthier, Jean-Christophe Giret, Vito Primavera*	**Workshop**	**Conceptual Design of an Integrated Monoblock Composite HTP for Next-Generation Regional Aircraft** ***Antonio Gabriele Sodano***, *Domenico Cristillo, Davide Lucariello, Angelo D'onofrio, Michele Ciccone, Gaetano Maffettone, Almerigo Pantalone and Antonio Chiariello*	**Assessment of Powerplant Technology KPI Deviations on the Conceptual Design of Hydrogen Fuel Cell Short-Range Aircraft** ***Mario Di Stasio***, *Fabrizio Nicolosi*
16:20 16:40	**Piezoelectric Synthetic Jet Actuator embedded in aircraft wingtip for stealth application** *A. Barnique, G. Aigouy, E. Eglinger, J. Delva, F. Ternoy, J. Roháč, D. Ferris,* ***G. Mansuy***	**Human–AI mission interaction for autonomous pilots of unmanned aircraft systems through multimodal language models** ***Tamas Szakacs***	**Preparation and testing of the gearbox, which combines the output power of the GTE and the electric engine to drive the air propeller of a hybrid turbo-electric propulsion** ***Sergiy Dmytriyev***, *Andriy Yedynovych, Igor Kravchenko*	**Enhanced Surface Defect Segmentation of Carbon Fiber Materials Using Photometric Stereo Imaging (COMPASS Project)** ***Abhiram Kolli***, *Riccardo Fazzi, Denis Krajnc, Christian Eitzinger*	**Development of a refractory tile for a reusable launcher** ***Marie Busquet***, *Marc Singlard, Julien Garcia*	**Open Digital Platform: Connecting multiple domains and tools to support Digital Engineering Workflows** ***Fabien Retho***, *Klara Ziegler, Elias Allegaert, Olexiy Kupriyanov, Philippe Barabinot, Sparsh Garg, Jasper H. Bussemaker, Vito Primavera, Andrea Terracciano, Pierpaolo Borrelli*		**Morphing Elevator Aero Design Applying Evolutionary Algorithm-Based Optimization and Radial Basis Functions** ***Romano D. G.***, *Minervino M., Quagliarella D.*	**Wind Tunnel Validation Experiment of a Cooling Line with a Simulated HEX Device under Real Operating Conditions** ***Daniel Kessler***, *Jonas Grubert, Florian Schmidt, Dirk Soggeberg, Sebastian Merbold, Jens Friedrichs*
16:40 17:00	**High power electronics for synthetic jet actuators** ***Jan Rohac***, *Vitalij Velicko, Ales Honomichl*	**Control of Multirotor with Slung Load Using Deep Reinforcement Learning** *Giulio Avanzini,* ***Fabio Polese***, *Alessandro Zavoli, Guido De Matteis*	**Design and Validation of a Battery Module for High-Power Aeronautical Applications** ***Martin Macak***, *Ziga Kreuzer, Helmut Kühnelt*	**Laser assisted AFP process monitoring towards real-time properties prediction (CompSTLar Project)** *Beatriz Gomes, Mario Fernandez-Pedrera, Pablo Romero-Rodriguez*, ***Prasad Pravin Shimpi***	**Forecasting the Ionospheric Activity for Space Surveillance Purposes using Deep Learning Techniques** ***D. Alexandre***, *N. Bhuyan Mathew*	**A Git-based Collaborative Engineering Platform for MBSE using SysML v2** *Jasper H. Bussemaker,* ***Carlos Cabaleiro***, *Jonas Jepsen, Marko Alder, Sparsh Garg, Marcel Mischke, Aprajita Kain, Erwin Moerland, Luca Boggero, Björn Nagel*		**Optimization of a Horizontal Tail Plane under Longitudinal Stability Constraints** ***Eric Schaar***, *Marco Fila Robattino, Lars Reimer, Ögmundur Petersson*	**CFD Validation of an Operating Propeller Engine with Dual Cooling Ducts** *Dirk Soggeberg, Florian N. Schmidt, Prabhjot Singh,* ***Ralf Rudnik***
17:00 17:20	**Wind tunnel test results of active flow control on an aileron** ***Julien Dandois***, *Colin Leclercq, Vianney Nowinski*	**Neuro-Adaptive Tactical Path Planning for Fixed-Wing UAVs in Terrain- and Threat-Constrained Environments** ***Bengisu Yücel***, *Mehmet Önder Efe*	**Assessment of floating bus voltage on a cycle-integrated SOFC gas turbine hybrid** ***Raoul D. Böck***, *Florian Winter, Arturo Carboné Mejías, Mirko Hornung*	**Leveraging Photonics for the Digitalisation of Composite Manufacturing: The PLEIADES Approach** ***H. Zervos***, *G. Syriopoulos, C. Haliotis, T. Prousalidi, H.K. Kannojia, J. Missinne, G. Poulopoulos, H. Avramopoulos*	**Multidisciplinary Conceptual Design Framework for Reusable Space Vehicles with Re-Entry and Servicing Capability** ***Iara Figueiras***, *Girolamo Musso, Alain de Souza, Frederico Afonso, Fernando Lau*	**Integration of Model-Based Design and Surrogate-Based Multi-disciplinary Design and Optimization into a Dynamic Simulation Framework for Thermal Management Systems** *Andrea Mameli,* ***Francesco Torrigiani***, *Sparsh Garg, Nicole Viola, Carlos Cabaleiro de la Hoz*		**Investigation of novel energy systems structural integrators in regional aircraft** ***Gyftos Panagiotis***, *Lampeas George, Giakoumelos Gkikodimas Dionysis*	**FAME - LH2 Storage System Qualification** ***W. Schimpl***, *M. Huber, D. Hammer*
17:20 17:40	**Flight Test Demonstration of Active Flow Control Using Switching Jet and Synthetic Jet Actuators for Control Augmentation and Drag Reduction in FACELIFT** ***Jernej Drofelnik***, *Luka Porenta, Julien Dandois, Colin Leclercq, Jan Rohac, David Ferris, Julien Weiss*	**Controllability Assessment of a Tiltrotor VTOL under Single Actuator Faults** ***Fabian Sion***, *Mark Henkenjohann, Udo Nolte, Christian Henke, Ansgar Trächtler*	**Potential to increase roll authority using differential thrust in a distributed electric propulsion aircraft under actuator and propulsion failure** ***T. Sachtleben Dahmann***, *D. Kiehn, B. Ritterbach*	**Welding of Vitrimer-Based Composites in the TOSCA Project: Influence of Degree of Cure on Joint Performance and Processability (UPBEAT Project)** ***Enrico Chemello***, *María Ivette Coto Moretti, Massimiliano Russello*	**Visibility-Constrained Pruning for Rapid Tasking in LEO Earth Observation Constellations** ***Yifan Cai***, *Camilla Colombo*	**Integrated digital platform for aircraft engine's parts life cycle management** ***Jakub Broniszewski***, *Katarzyna Frydrycka-Zabadaj, Dariusz Oracz*		**Structural Assessment and Pressurization Challenges of Unconventional Non-Circular Fuselage Sections for Hybrid-Electric Regional Aircraft: A HERFUSE Project Case Study** ***Francesco Santonicola***, *Stefania Atalarico, Mariacristina Nardone, Mario Graziano, Claudio Pezzella, Antonio Negro*	**Development for a fuel cell stack for aeronautical applications** ***Meissel H.***
17:40 18:00	**Towards Practical Aircraf[MZ1.1]t Applications of Active Flow Control: Aircraft-Level Trade-Offs and Integration Feasibility in FACELIFT** ***Miha Zupanič***, *Jernej Drofelnik, Julien Dandois, Colin Leclercq*	**Model Based System Synthesis for the preliminary design of a multirotor drone** ***Pierre-Alain Yvars***, *Laurent Zimmer*	**EProNS – An Electric Propulsion Network Simulation Module for GTlab** *Victor J. Bahrs,* ***Katharina Kolo***, *Jonas Ludowicy, Stefanie de Graaf*	**Evaluating part quality using melt pool signals in a commercial PBF-LB system (UPBEAT Project)** *Macallister N.*, ***Mellemseter S.***, *Simmen K., Grønnerød S.*		**How to improve the "Digital Assistant (DA) – Pilot interaction" design process** ***Yuk Shan Cheung***, *Tom van Birgelen, Rolf Zon, Jeroen van Rooij, Barry Kirwan*		***Open Discussion***	**Aircraft electric powerline system architecture topology choice & optimization** ***M.McClelland***, *D.Prieto*

20:00 **EASN Cocktail Dinner**

End of the 2nd Day

16th EASN International Conference on
Innovation in Aviation & Space towards sustainability today and tomorrow

Final Agenda

DAY 3 | 29.10.2026

8:30 – 18:00	Registration
ROOM	Lecture Hall 1-2-3
9:00 – 9:30	KEYNOTE SPEECH *Architecting the Future: ESRE's Vision for Technological Sovereignty in the Next European Space Era* by **Dr. Catalin Nae** | ESRE
Chaired by	**Prof. Spiros Pantelakis** | Conference co-Chairman
9:30 – 10:30 Panelists	DISCUSSION PANEL *The long route to gender equality in Aerospace: status, challenges, obstacles, and the way forward* **Ms. Bárbara Carmelo** | ISAE-SUPAERO, **Dr. Nathalie Duquesne** | Liebherr-Aerospace Toulouse, **Dr. Cornelia Hillenherms** | DLR, **Ms. Martine Sainte-Marie** | Elles Bougent Association
Moderated by	**Ms. Gioia Venturini** | SAFRAN Group, France
10:30 – 11:00	Coffee Break

ROOM	Lecture Hall 1	Lecture Hall 2	Lecture Hall 3	05-108	05-112
Session Title	Novel Rejected Heat-to-Thrust Recuperation System for Fuel Cell-Electric Aircraft (exFan Project)	Advances in Hybrid-, Cryo and More Electric Aircraft Technologies for Ultra Efficient Flight PART I	Thermal Management PART I	Gaseus and Liquid Hydrogen storage and refuelling for aviation	Energy and Fuels: Radical approaches towards 100% renewable energy and climate neutrality
Session Chair	**Dr. Belén García-Blanco** (CIDETEC, Basque Research and Technology Alliance (BRTA), Spain)	**Dr. Andreas Battenberg** (Fraunhofer, Germany)	**Mr. Guillaume Bourely** (Honeywell, Czech Republic)	**Mr. Georgios Bampanis** (European Climate, Infrastructure and Environment Executive Agency - CINEA)	**Dr. Andreas Sizmann** (Bauhaus Luftfahrt, Germany)
11:00 – 11:20	**Parametric Comparison of Heat Dissipation Architecture for Fuel Cell Electric Aircraft** ***Matthias Ronovsky-Bodisch***, *Niccolò Ferrari, Bernhard Gerl, Martin Berens*	**Why One Battery is Not Enough: Architecture-Driven Optimisation of Propulsion, Non-Propulsion and Reserve Energy Systems in Future Single-Aisle Aircraft** ***Andreas Battenberg***, *Markus Meindl, Martin Wenger, Florian Hilpert*	**A Mission-Level Simulation Framework for Integrated Thermal Management of Hybrid-Electric Aircraft Power Systems** ***Tobias Reischl***, *Corentin Lepais*	**High-Flow Liquid Hydrogen (LH2) Refuelling for Aviation: Preliminary Results and Technical Developments from the GOLIAT Project** ***Jean-Christophe Hoguet***, *Peter Calvert, Lukas Steiger, David Ascic*	**Jet fuel production via hydrothermal liquefaction of agricultural residues: Economic and environmental performance** *Leonard Moser, Christina Penke,* ***Valentin Batteiger***
11:20 – 11:40	**Fuel Cell Thermal Management – overcoming high heat loads without oversizing heat exchangers** ***DI Christopher Gross***, *Philipp Jordan, DI Lorenz Braumann, DI Matthias Ronovsky-Bodisch*	**On the Existence of Long-Range Hydrogen-Powered Transport Aircraft** ***Moschetta JM.***, *Jan R.*	**System Modelling and Simulation of an Integrated Thrust Recovery System with an Outflow Valve for Next Generation Hybrid Electric Regional Aircraft** ***Siwei Cai***, *Tasos Karageorgiou, Jeong Hoon Heo, Michael Moeller, El Hassan Ridouane*	**An Assessment of Turnaround Time, Logistic and Safety Distances for LH2 refuelling in Airport (ALRIGH2T Project)** ***Francesco Mastropierro***, *Gianvito Apuleo, Damiano Tormen, Ida Hjorth, Matteo Giampaolo, Alessia Angiolini, Daniele Santini*	**Sustainable Aviation Fuel from Sunlight and Air: Progress and Perspectives** ***Moritz-Alexander Thiel***, *Christoph Falter, Max Pargmann, Peter Schwarzbözl, Heider Hussain, Barbara Bohlen, Valentin Batteiger, Andreas Sizmann*
11:40 – 12:00	**Evaporative Cooling with Fogging for Thermal Management of Hydrogen–Electric Aircraft Propulsion** ***Bernhard Gerl***, *Matthias Ronovsky-Bodisch, Niccolò Ferrari, Martin Berens*	**Implementation of a higher fidelity electrical propulsive chain in the frame of a hybrid regional aircraft multidisciplinary design analysis** ***Léa Zanardi***, *Didier Brousset-Matheu, Nathalie Bartoli, Emmanuel Benard, Valérie Pommier-Budinger, Sébastien Defoort, Alessandro Sgueglia*	**Development and Assessment of Thermal Management System for Hybrid-Electric Propulsion Applications within the ETHAN1 Project** *Karunakar Reddy Konda, Akilan Mathiazhagan, Dikshant Sharma, George L.R. Vegini, Majid Asli,* ***Klaus Höschler***	**Modeling and Optimization of Airport LH_2 Dispensing Unit Fleets** ***Samy Ben-Othman***, *Christophe Corre, Stephane Aubert, Germain Hurtado*	**Investigation report on SAF application strategies of major European aircraft manufacturers** ***Eulalia Tomas Nadal***, *Javier Cubas, Gustavo Alonso*
12:00 – 12:20	**Rethinking Fan Design for Heat Exchanger Integration: Challenges and Lessons Learned** ***Mavroudis Kavvalos***, *Eleni Pantermaraki, Rainer Schnell*	**Design, performance and modelling of an electrical system for a hybrid GT-SOFC propulsion system for commuter aircraft** ***Caihong Liu***, *Evangelia Pontika, Panagiotis Laskaridis*	**Influence of Ram Air Channel Cooling Capability and Associated Drag on Fuel Cell Operation and Aircraft Mission Performance** ***Silvan Keim***, *Raphael Gebhart*	**LH_2 supply-cost uncertainty for H2-powered aviation: European airport case studies (GOLIAT Project)** ***Timo Schelm***, *Finn Schenke, Astrid Bensmann, Richard Hake-Rauschenbach*	**Digital Twin-Based Geometric Optimization of Gas Turbine Combustors for Sustainable Aviation Fuels** ***Doğa Kılıç***, *Melih Yıldız*
12:20 – 12:40	**Integration of Compact Plate-Fin Heat Exchanger in a Ducted Fan Propulsion Systems for Hydrogen–Electric Aircraft** ***Niccolo' Ferrari***, *Matthias Ronovsky-Bodisch, Bernhard Gerl, Martin Berens*	**Modelling and Optimization of a UAV Parallel Hybrid-Electric Propulsion System** ***Rita Soares de Pinho***, *João Fernandes, Vasco Coelho*	**HyPoTrade: Modelling and Simulation of a Two-Phase Mechanically Pumped Loop for Fuel Cell Waste Heat Recovery** ***Sam W. Deckers***, *Arne K. te Nijenhuis, Johannes van Es*	**Uncertainty-Aware Cryogenic Hydrogen Tank Design Optimization for Regional Turboprop Aircraft (DEMOQUAS Project)** ***Georgios S. Arvithis***, *Konstantinos Bollas, Vasilis G. Gkoutzamanis, Francesco Montomoli, Anestis I. Kalfas* **A Validated Computational Framework for Cryogenic Tank Filling (DEMOQUAS Project)** *Nikolaos Makrygiannis,* ***Georgios S. Arvithis***, *Vasilis G. Gkoutzamanis, Anestis I. Kalfas*	**Integration of a multi-stack fuel cell system controller based on an aviation-relevant real-time operation system** ***Milan Lieser***, *Cornelie Bänsch*
12:40 – 13:00	**Recirculation-Assisted Surface Engineering of Complex AM Heat Exchangers in Aerospace Applications** ***M.Belen García-Blanco***, *Virginia Sáez de Viteri, Olaia Ortiz, Amaya Garcia-Casas, Asier Salicio*	**Operational Readiness Of Short Range Hybrid Electric Aircraft Under Energy, Charging And Thermal Recovery Constraints** ***Divya Manivannan***	**Development of PHM Concept for HERA Thermal Management System** ***David Fuentes Aguilar***, *Radek Hedl*	**An Experimental Two-Dimensional Tank Study of Sloshing Dynamics (HASTA Project)** ***Tiziano Pagliaroli***	**Weight Reduction in Aviation Battery Systems Through Uncertainty-Aware Modeling Within Specified Safety Levels** *Jenny Morisho,* ***Martin Wenger***, *Matthias Hessmann, Simon Holz, Javier Marco-Gimeno, Thomas Eberle, Vicent Lorentz*

ROOM	05-114	05-117	05-053	05-059
Session Title	Digital Engineering for Aerospace Systems PART II	Additive Manufacturing PART I	Transforming CS-23 Aviation: Flying Testbeds, Sustainable Propulsion and Regional Air Mobility Concepts	Towards New Algorithms for Multidisciplinary Design Optimization (MDO) PART I
Session Chair	**Dr. Carlos Cabaleiro de la Hoz** & **Mr. Francesco Torrigiani** (German Aerospace Center (DLR), Germany)	**Prof. Teresa Morgado** (Polytechnic University of Lisbon, Portugal)	**Dr. Sebastian Spitzer** (TU Dresden, Germany)	**Prof. Joseph Morlier** (ISAE-SUPAERO, France) & **Prof. Nathalie Bartoli** (ONERA, France)
11:00 – 11:20	**Application of Open Digital Platform to the Design and Verification of Hybrid-Electric Regional Aircraft** *Andrea Terracciano, Pierpaolo Borrelli, Ciliberti Danilo, Allegaert Elias, Francesco Torrigiani, Gerardo Carbonaro, Vito Primavera, Alfredo Renzetti, Fabien Retho, Novella Saccenti,* ***Carlos Cabaleiro de la Hoz***	**The Impact of Additive Manufacturing in the Aerospace Industry: Challenges and Opportunities** ***Teresa Morgado***	**Battery System Development to Empower Electrified Aviation Within OST4AVIATION** ***Florian Franke***, *Alperen O. Altun, Maurice L. Dörnte, André Vetterlein, Stefan Kazula*	**Reliability-based Overall Aircraft Design using GEMSEO** ***Matthias De Lozzo***, *Nicolas Roussouly, Olivier Sapin*
11:20 – 11:40	**Automated Validation and Verification in Aircraft Design: Integrating MBSE and MDO** ***Simone Mancini***, *Tim Klaproth, Jean-Christophe Giret, Sylvain Béchet, Joaquín García Ordóñez, María Roncero Ruiz, Jasper Bussemaker*	**Residual stresses evaluation in cold spray process using digital image correlation** ***Abouhamzeh M.***, *Stamoulis K.*	**Efficient Preliminary Design and Analytical Pre-Dimensioning of Design-Space-Adapted Hydrogen Pressure Tanks for Future Fossil-Free Aviation at the Example of a Cessna 172N** ***Sebastian Spitzer***, *Edwin Zimmerman, Alexander Koepp, Chris Fischer, Johannes Markmiller, Maik Gude*	**Surrogate-accelerated co-design of wing and active flutter controller under CS-25 and uncertainty** ***Carlos Sosa Henríquez***, *Joseph Morlier, Sigitas Kilikevičius*
11:40 – 12:00	**Open Digital Environment integrating Systems into Preliminary Aircraft Mission Simulation and Optimization** *Reinhold Maierl, Klara Ziegler, Robert Marcenco,* ***Ögmundur Petersson***, *Roland Wüchner*	**Effect of Printing Parameters on the Electrical Resistance of FFF-Printed Piezoresistive Sensors Based on PEI/CNT/CB Composite Filament** ***Ramazan Yüksel***, *Mehlika Ahsen Eldemir, Merve Karabal, Alptekin Yıldız*	**Model based approach to optimize air stoichiometry and operating pressure for a PEM fuel cell based propulsion system of a four seater aircraft** ***Mücahit Akkaya***, *Dieter Peitsch*	**Preliminary Sizing of Multirotor Platforms for Optimal Mission Planning** ***Giulio Avanzini***, *Emanuele L. de Angelis, Daniele Fattizzo, Fabrizio Giulietti*
12:00 – 12:20	**Evaluation of Flight Systems by Interfacing FMI based Co-Simulations with the Aircraft & System Design through SSP** ***R. Zimmermann***, *A. Schäfer, J. Jepsen, R. Mali*	**Validation of the MUVAX Industrial Concept and FSW Technology Solutions for Fuselage Longitudinal Joints: Results from MRL4 Trials** ***Marco Pacchione***	**Investigation of CO2-neutral propulsion concepts in the preliminary design for a general aviation aircraft** ***Johanna Haug***, *Annika Staats, Andreas Bardenhagen*	**A data model centered MDO discipline integration in GEMSEO applied to industrial conceptual aircraft design** ***François Gallard***, *Fabian Castaneda, Gilberto Ruiz Jimenez, Antoine Dechaume, Julian Bardin, Antoine DeBlois*
12:20 – 12:40	**Virtual and Connected Testing of Hybrid Electric Networks** ***Christian Schyr***, *Franz Diwoky*	**Roughness-Aware Experimental Validation of an Additively Manufactured Multi-Stage Passive Pressure Reducer for Liquid Hydrogen Propulsion Systems** ***Arash Safaei***, *Matteo Bertone, Matteo D.L. Dalla Vedova, Paolo Maggiore*	**Sensitivity of a fuel-cell battery hybrid energy system to commuter aircraft mission profile parameters** ***Pascal Albrecht***, *Lukas Schnörer, Dominik Murschenhofer*	**Hybrid physics-based and operations-aware ML surrogate for spacecraft life support systems** ***Christian Mayer***, *Leonard Brandstetter, Claas Olthoff*
12:40 – 13:00	**Model-Based Systems Engineering for Early Zonal Hazard Identification in Aircraft System Design** ***Ayush Kamboj***, *Yicheng Sun*	**Open Discussion**		

13:00 14:00	Lunch Break								
ROOM	Lecture Hall 1	Lecture Hall 2	Lecture Hall 3	05-108	05-112	05-114	05-117	05-053	05-059
Session Title	Liquid Hydrogen Technologies for Sustainable and Climate-Neutral Aviation (H2ELIOS Project)	Advances in Hybrid-, Cryo and More Electric Aircraft Technologies for Ultra Efficient Flight PART II	Thermal Management PART II	State of the art for H2-air combustion & SOFC - Dynamic panel discussion	Innovative and multi-disciplinary aircraft design for emissions reduction PART I	Digital Engineering for Aerospace Systems PART III	Additive Manufacturing PART II	Impact Assessment in Aviation PART I	Towards New Algorithms for Multidisciplinary Design Optimization (MDO) PART II
Session Chair	**Ms. Emma Celeste Lope Retuerto** (Sonaca, Spain)	**Mr. Florian Hilpert** (Fraunhofer, Germany)	**Mr. Guillaume Bourely** (Honeywell, Czech Republic)	**Mr. Georgios Bampanis** (European Climate, Infrastructure and Environment Executive Agency - CINEA)	**Prof. Emmanuel Benard** (ISAE-SUPAERO, France)	**Dr. Carlos Cabaleiro de la Hoz** & **Mr. Francesco Torrigiani** (German Aerospace Center (DLR), Germany)	**Prof. Teresa Morgado** (Polytechnic University of Lisbon, Portugal)	**Dr. Jordi Pons Prats** (Polytechnic University of Catalonia, Spain)	**Prof. Joseph Morlier** (ISAE-SUPAERO, France) & **Prof. Nathalie Bartoli** (ONERA, France)
14:00 14:20	**LH_2 Tank Demonstrator Design, Manufacturing and Assembly** *D. Cimadevilla, D. Arrebol, D. Berends, D. Rodríguez, **E. C. Lope**, E. Fernández de Bobadilla, J. Ortega, J. Martínez, J. Martín, J. Morales, M. del Carmen Gutirriez, V. Simion*	**Transient operation of a multi-stack fuel cell system for hybrid-electric regional aircraft** *__Cornelie Bänsch__, Kai Sommer, Oliver Thalau*	**Reduced-Pressure Evaporation for Improved Thermal Management Performance of Fuel-Cell-Powered Aircraft** *__Raphael Gebhart__, Felix Ladwein, Tim Burschyk, Philip Balack*	**HESTIA: Hydrogen combustion in aeroengines (HESTIA Project)** ***Marc Truscelli***	**From General Aviation to Regional and SMR, evaluation of novel architectures and technologies for low-carbon air transport using the FAST-OAD aircraft design software** *__S. Defoort__, E. Nguyen Van, E. Stragiotti, R. Parello, F. Lutz, S. Delbecq, E. Benard*	**Extending SysML v2-Based MBSE–MDAO Integration to Uncertainty and Multi-Fidelity Optimisation: Application with GEMSEO to a Hybrid-Electric Regional Aircraft** *__Jean-Christophe Giret__, Jean-Marie Gauthier, Sylvain Béchet, Romain Espoeys, Matthias De Lozzo, Mickael Guillen, Sparsh Garg, Jasper Bussemaker, Francesco Torrigiani, Simone Mancini, Tim Klaproth*	**Study of the recycling impact on fatigue behaviour of a Ti-6Al-4V produced by SLM** *__Teresa Morgado__, João Alves, Daniela Neves*	**Ontology-Based Approach for Future Civil Aviation Technology Management to Combine Literature and Expert Knowledge** *__L. Neubacher__, J. Jepsen, P. S. Prakasha*	**MDAO formulations based on disciplinary surrogate models** *__S. Dubreuil__, N. Bartoli, T. Lefebvre, C. Gogu*
14:20 14:40	**Assessment of Structural and Leakage Behavior of Gasketed Bolted Flange Joints for Cryogenic Applications** *George Tzoumakis, **Stavros Valilis**, George Lampeas, Spiros Pantelakis*	**Sizing and integration of HT-PEMFC and thermal management systems on a 19-pax aircraft featuring a hydrogen-powered hybrid-electric powertrain** *__Marco Garutti__, Simone Sandrin, Sergio Machado, Lorenzo Mazzei, Askin Isikveren*	**Integrated Modelica Modeling and Simulink Control Development of a Heat Exchanger System for Fuel Cell Propulsion (HEROPS Project)** *__Siwei Cai__, Amine Er-Raji, Grzegorz Kruczek, Changmin Cao, Vassilios Tsachouridis, El Hassan Ridouane*	**Integrated power and propulsion system based on hydrogen gas turbine and SOFC for clean aviation (FlyECO Project)** *Stefanie de Graaf, Panagiotis Laskaridis, Mauro Salazar, Mario L. Ferrari, Jan Zanger, Frederic Tong-Yette, **Patrick Y. Schmiede***	**Multifidelity overall aircraft design of a LH2-Powered Strut-Braced Dry-Wing Aircraft using surrogate models and design of experiments** *__R. Parello__, E. Stragiotti, S. Defoort, E. NGuyen Van, C. Julien, L. Vertonghen, C. Mollet, M. Méheut, D. Losada Costoso, F. Moens, O. Atinault, G. Starck*	**A Modular Digital Engineering Framework for Multidisciplinary Sizing and Integration of Hydrogen-Electric Aircraft Propulsion Systems** *Pablo Moreno-Escolástico, Marco Raiola, Rodrigo Castellanos, **Andrea Cini***	**Experimental and Numerical Investigation of the Dynamic Properties of Sandwich Structures with Lattice Cores** *__Florian Mock__, Kai-Uwe Schröder*	**Architecting a System-of-Systems Framework for Impact Assessment in Aviation** *__Patrick Ratei__, Prajwal Shiva Prakasha, Björn Nagel*	**Acceleration of the Bi-Level BCD MDO Architecture Applied to Aircraft Design** *__Shubham Deshmukh__, François Gallard, Joel Brezillon, Anne Gazaix, Andrea Brugnoli, Joseph Morlier*
14:40 15:00	**Development of a Comprehensive Testing Infrastructure for Cryogenic Liquid Hydrogen Technologies in Aviation: Safety, Loading, and Performance Validation** *Vivancos G, Carpio A, Mundo I, Fernandez S, Vilar J, Nel-lo M, **Parera M***	**Optimization Potential of Altitude-Adaptive Control Strategies for PEMFC Systems** *__Jonas Settele__, Dominik Murschenhofer*	**Test results of a 150kW Direct Water Evaporation Demonstrator for Improved Fuel Cell Thermal Management in Aerospace Applications** *__Tim van de Weijer__, Johannes van Es, Raphael Gebhart*	**Demonstration of Novel Kerosene-H2 Multi-Fuel Combustor (HOPE Project)** *Kaushal Dave, Alam Garciduneas-Correa, Lorenzo Palanti, Lorenzo Mazzei, Cosimo Bianchini, **Arvind Gangoli Rao**, Francesca De Domenico*	**LH2-Powered Strut-Braced Dry-Wing Aircraft: Aero-Structural Benefits and Challenges** *__M. Méheut__, D. Losada Costoso, F. Moens, O. Atinault, G. Starck, C. Julien, L. Vertonghen, C. Mollet, S. Defoort, E. NGuyen Van, E. Stragiotti, R. Parello J. Sodja, S. de Boer*	**Exploration of Machine Learning-Assisted Multidisciplinary Design Optimization Methods in Aircraft Conceptual Design Using Digital Twin Technology** *Elif Zeyneb Tekin, **Melih Yildiz***	**Study of additive manufacturing of advanced ceramics with acoustic waves** *__Cloé Benoit__, Marc Mihajlovic, Antoine Dode, Marine Bertucchi, Gabrielle Racz, Christophe Tenailleau, Cédric Neuville*	**An Integrated Modeling and Dashboard Framework for Aviation Impact and Transformation Assessment** *__Pascal Bertram__, Patrick Ratei, Jonas Jepsen, Prajwal Shiva Prakasha, Björn Nagel*	**Topology optimization of composite structures using curved Double-Double laminates** *Thuan Ho-Nguyen-Tan, Hoil Choi, Minkook Kim, **Soon Ho Yoon**, Jaesang Yu*
15:00 15:20	**Integrated SHM and Leak Detection Architecture for Composite LH_2 Aircraft Tanks** *__Saupe R.__, Ciminello M., Shaporin A., Brindisi A., Ameduri S.*	**Scalable Integrated Power Electronics for Fuel Cell Regional Aircraft** *Markus Meindl, Florian Hilpert, **Bernd Eckardt***	**Impact of Puller Fan Integration on the Design and Off-Design Performance of a Hybrid-electric Fuel Cell Aircraft Thermal Management System (TheMa4HERA Project)** *__Angel Garmilla Manzano__, Philip Balack, Raphael Gebhart*		**Preliminary design of a future SMR aircraft powered by LH2 Open Fan engine** *__E. Nguyen Van__, V. Brodbeck, S. Defoort, N. Tantot*	**Sequential Sampling Algorithm for the Design of a Hybrid-Electric Regional Aircraft under Uncertainty** *Romain Espoeys, **Matthias De Lozzo**, Jean-Christophe Giret, Sylvain Béchet*	**Tensile Characterization of Light-Weight PLA and ASA Thermoplastics for Fused Filament Fabrication** *__Alexander J Lamey__, Ruben E Perez*	**System Dynamics and Game-Theory Modelling for Multi-Stakeholder Competitive Analysis in System of Systems Aviation Impact Assessments** *__Helen Szöke-Erös__, Prajwal Shiva Prakasha, Björn Nagel*	**High-Order Beam Modelling of Tapered Composite Wing Structures** *__Cardone D.__, Cavallaro R., Cini A.*
15:20 15:40	**Experimental validation of a cryogenic tank Thermo-fluidic Digital Twin** *__Carles Oliet__, Marcial Mosqueda-Otero, Eugenio Schillaci, Joaquim Rigola, Jesús Castro*	**Enhancing Reliability of Electric Aircraft Power Systems: A Study on Silicon Carbide and Gallium Nitride Power Devices Under Radiation Exposure** *__Arijit Sengupta__, Kurt Gnerlich, Ilja Koch, Stefan Kazula*	**Loss Mechanisms and Efficiency Limits in Fuel Cell Ram Air Cooling Channels: Diffusers, Heat Exchangers, and the Meredith Effect** *__Raphael Gebhart__, Silvan Keim, Julius Wildeboer, Andreas Lesser*	*Open Discussion*	**Nonlinear Aeroelastic Wingbox Sizing Model for Overall Aircraft Design of Flexible High-Aspect-Ratio Wings** *__Ousmane S__, Joseph Morlier, Emmanuel Benard*	**Towards a Scalable Reference Architecture: Matrix-based Approach to Scalable High-Level Requirements for Next-Generation Military Integrated Modular Avionics (NG MIMA)** ***Philipp Hahner***	**Structural Integrity of Solid-State Metal Additive Manufacturing for Aerospace Components** *__Diana Lados__, Anthony Spangenberger*	**A Novel Taxonomy for Aviation Emissions Models** *__Michael P. Weinold__, Marty Noe, Gian Carlo Heller, Peter Wild, Russell McKenna*	**A Multi-Objective Optimization Framework for Sustainable and Strategic Airframe Material Composition in Conceptual Aircraft Design** *__Shantanu Sapre__, Joseph Morlier, Christian Gogu, Olivier Grellou*
15:40 16:00	**An Attempt at Validation of Means of Compliance (MoC) for the Permeability of LH2 Tank Wall Materials** *__A. B. Horvat__, G. Dreossi* **The Representativeness of Helium for LH2 Tank Permeability Testing: A Comparative Study** *__G. Dreossi__, A. B. Horvat*	**Heat exchanger for the hydrogen engine fuel system** *Illia Petukhov, **Taras Mykhailenko**, Oleksii Lysytsia, Artem Kovalov*	**Rear-Fuselage Integrated Surface Heat Exchanger for Fuel Cell Cooling in Regional Aircraft** *__Tom-Soeren Stumpp__, Ulrich Carsten Johannes Rischmüller, Arturo Carboné Mejias, Mirko Hornung*		**Flight Mechanics-Driven Conceptual Design of Twin-Fuselage Aircraft** *__Álvaro Cobo-González__, Miguel Antonio Antón-Díez, Miguel Ángel Gómez-Tierno, Manuel Pérez-Cortés, Cristina Cuerno-Rejado*	**Natural Language Processing for Pilot Intent Recognition in Next-Generation Fighter Cockpits: a Proof-of-Concept and its Assessment Approach** *__Mario Muscio__, Marco Fabbri*	Open Discussion	**System of systems architecting for aviation - application and challenges** ***Prajwal Shiva Prakasha***	***Machine-Learning-Assisted Transfer Matrix Analysis of Cutout-Induced Imperfections in Rotationally Symmetric Shell Structures*** *__Finn Eggers__, Kai-Uwe Schröder*

16:00 17:00	Coffee Break & Poster Session | Tour #2								
ROOM	Lecture Hall 1	Lecture Hall 2	Lecture Hall 3	05-108	05-112	05-114	05-117	05-053	05-059
Session Title	HERWINGT Demos: Development Challenges and Solutions	Advances in Hybrid-, Cryo and More Electric Aircraft Technologies for Ultra Efficient Flight PART III	Thermal Management PART III	Sustainable Aviation Propulsion	Innovative and multi-disciplinary aircraft design for emissions reduction PART II	Digital Engineering for Aerospace Systems PART IV	Smart Materials & Structures	Impact Assessment in Aviation PART II	Multidisciplinary Design Optimization of Aircraft Structures
Session Chair	**Mr. Sebastián Pellicer** Sotomayor (Airbus Defence and Space)	**Mr. Florian Hilpert** (Fraunhofer, Germany)	**Mr. Guillaume Bourely** (Honeywell, Czech Republic)	**Dr. Arne Seitz** (Bauhaus Luftfahrt, Germany)	**Prof. Andreas Strohmayer** (University of Stuttgart, Germany)	**Dr. Carlos Cabaleiro de la Hoz** & **Mr. Francesco Torrigiani** (German Aerospace Center (DLR), Germany)	**Prof. Patrizia Lamberti** (University of Salerno, Italy)	**Dr. Jordi Pons Prats** (Polytechnic University of Catalonia, Spain)	**Dr. Dietrich Knörzer** (Former Senior Officer, Aviation Unit, DG Research & Innovation, European Commission)
17:00 17:20	**Design, Analysis & Manufacturing of LRI Thermoset Leading Edge Demonstrator** *__E.Karachalios__, V.Prentzias, M.Roussos, S.Spyrou, E.Loizos*	**Cryogenic powertrains as key enabler for fully electric hydrogen fuel cell powered aircraft** *__Christian Bentheimer__, Florian Bayer, Dr. Markus Meindl, Dr. Bernd Eckardt*	**Experimental Assessment of an Electrical Temperature Control System with Carbon Heating Duct Technology for More-Electric Aircraft Cabins** *Victor Norrefeldt, Marie Pschirer, Arnav Pathak, Josef Ostermayer, **Marc Ahlburg***	**Effects of Sustainable Aviation Fuel on the Performance, Emissions, and Combustion Stability of a Small Turbojet Engine** *__Pařez J__, Pechout M, Vojtíšek M*	**Box-Wing as a scalable enabling architecture from large transport to low-altitude economy** *Palaia G., **Abu Salem K.**, Frediani A., Rizzo E., Martini M.*	**Intelligent Digital Twinning of UAVs Using Residual Learning with Reservoir Computing** *__Yan Zhao__, Anthony Siming Chen, Mark Jabbal, Dongyu Li, Tao Yang*	**Nanodiamond-based coating for aircraft transparencies: Test equipment and measurement program** *__L. Flavio Campanile__, Maike R. Klinkmüller, Chris F. Fischer, Johannes F.C. Markmiller*	**Comparison of aviation mitigation strategies using customisable climate models** *__Thomas Planès__, Léa Dupont, Philippe Mattei, Félix Pollet*	**Aircraft Mission-Based Climate Impact Surrogate Modeling for Engine Pre-Design** *__Nils Roth__, Patrick Egerer, Rafael Balderas-Xicohtencatl*
17:20 17:40	**Shaping the Future of Wing Manufacturing: An Integrated Flap Upper Skin Demonstrator Based on Resin Infusion Technologies** *José Martín Bravo, Rocío Palomo Vera, Luis Sepúlveda Ramos, Francisco Javier González González, **Antonio Almenara Yebenes***	**Advancing Cryogenic Cooling And Electrical Distribution Systems For Future Hydrogen-Powered Aviation** *__Daniel Kierbel__, Reda Abdouh, Dominika Chamoro, Ikram Mataich, Arne te Nijenhuis, Marcel Schoonmade, Frank Wokke,René Alderliesten, Marc Dhalle, Gerhard Knol, Francesco Dioguardi, Frank van Duin, Max Van Vliet, Tim Hope, Ben Eastment, Matteo Tassisto, Emelie Nilsson, Jeremie Monin-Baroille, Jan-Willem van Zwieten*	**Thermal Performance Assessment of a Capillary Jet Loop Passive System for Air Supply Motor Power Electronic Powertrain Cooling in Hybrid-Electric Aircraft** *__Vincent Dupont__, Christian Popper, Wouter Blom, Martijn Hagen, Johannes Van Es, Florian Denz, Nejat Mahdavi, Julian Dumouch, Khairi Sioud, Esli Trejo Peimbert*	**Design of Hydrogen-Based Propulsion Systems and Implications for Regional Aircraft Operational Safety** *__Ulrich Carsten Johannes Rischmüller__, Alexander Kieß, Joachim Siegel, Joël Jezegou, Mirko Hornung*	**Hydrogen Tank Integration Trade-Offs for a Fuel Cell-Powered Business Commuter Aircraft** *Fabrizio Nicolosi, **Mario Di Stasio**, Felicia Palmiero, Giuseppe Melone*	**Hybrid-Electric Regional Aircraft behavioral system-level digital twin development** *__Fabien Retho__, Antoine Delacourt, Elias Allegaert, Philippe Barabinot, Marco Fioriti, Luigi Zutta, Hamed Akhavan, Andrea Terracciano, Pierpaolo Borrelli*	**Surrogate model for lightweight metamaterial sandwich optimization** *__Vladimír Hostinký__, Jan Navrátil, Ivo Jebáček, Jurij Sodja, Anastasiia Krushynska*	**From Scouting to Assessing the Long-term Systemic Climate Leverage Potential of Emerging Technologies for Aviation** *__Lily Koops__, Jana Janeva*	**Multi-fidelity aerostructural optimisation of composite wings via RANS adjoint drag sensitivities** *__Evangelos Filippou__, Jurij Sodja, Roeland De Breuker*
17:40 18:00	**Herwingt Pylon to Pylon demonstrator** *__Ana Rodríguez Henche__, Alba López Ruiz, Sebastián Díaz*	**ICEFlight: An exploratory study into LH2/GHe heat exchangers for a cryogenic-electric network** *Vincent P.W. van Krimpen, Arne K. te Nijenhuis, **Sam W. Deckers**, Johannes van Es*	**Results of Scaled Test Program on Skin Heat Exchanger for Thermal Management in Hybrid Electric Regional Aircraft** *__Benigno J. Lázaro__, Ezequiel González-Martínez*	**The effect of a hydrogen flame on the geometric structure and tightness of contacting surfaces** *__Kawalec A.__, Drajewicz M., Rogalski T.*	**Validation of an aircraft design framework with experimental flight test data of an all-electric aircraft** *__Dominik Eisenhut__, Andreas Bender, Jonas Mangold, Andreas Strohmayer*	**A Real-time Digital Twinning Platform for Distributed Electric Propulsion Aircraft Design** *__Dongyu Li__, Yan Zhao, Tao Yang*	**Through-thickness thermal response of in-situ consolidation CF/LM-PAEK manufactured by pulsed flashlamp automated fiber placement** *__E. Tobin__, D. M. J. Peeters*	**Impacts of Contrail Accounting in the EU ETS: A Large-Scale Analysis of European Operations in 2018 (BECOM Project)** *__Zarah Lea Zengerling__, Federica Castino, Malte Niklaß, Feijia Yin*	**A Training-Oriented Hydrogen, Kerosene, and Battery Aircraft Design MDO Problem with Uncertainties** *__Dajung Kim__, Thierry Druot,Nicolas Peteilh, Omar Hammami, Matthias De Lozzo, François Gallard*
18:00 18:20	**A Scalable Resistance Welding System for Thermoplastic Composite Leading Edges: From Laboratory Optimization to Full-Scale Demonstrator Assembly** *__Massimiliano Russello__, Enrico Chemello, Marta Juanatey Muradas, Mohsen Bahrami, Elena Senin Rodriguez*	**Battery safety including crash and thermal runaway in the hybrid-electric powered H145 PioneerLab** *__Dario-Vincenzo Di Modica__, José Luis Sandoval Murillo, Thomas Kisters, Jonas Pfaff, Luis Otavio Cortes Magalhaes, Simon Holz*	**Avionics Heat Reuse for Cargo Heating** *Victor Norrefeldt, **Marie Pschirer**, Arnav Pathak, Marc Ahlburg*	**Safety-Assured Performance Assessment and Uncertainty Quantification of a Hydrogen-Fuelled Aircraft Engine Using a Surrogate Model** *__Nikolaos Satrazanis__, Konstantinos Bollas, Michail Psaropoulos, Panagiotis Giannakakis, Georgios Arvithis, Vasilis Gkoutzamanis, Anestis Kalfas, Alessandro Borgia, Francesco Orefice*	**Flight Control Systems Hinge Loads Estimation for Aircraft Conceptual Design of Fighters** *David Lundström, Erick Espinosa Juárez, **Andrea Vitale***	**Digital-twin model for assessing energy consumption and efficiency in flight control actuators for new hybrid-propulsion regional aircraft** *__V. Marra__, A. De Martin, M. Sorli*	**Modelling the Economic Cost of a Supply Shock on Key Aerospace Materials** *__David Plesch__, Alberto Berardi*	**Local Air Quality Assessment for Updated Airport Fleet via EFACA and SENECA Aircraft** *__Synylo Kateryna__, Zaporozhets Oleksandr, Krupko Andrii, Makarenko Vitalii, Yakushenko Oleksandr*	**Multidisciplinary Design of High Aspect Ratio Wings: Maximising Active Load Alleviation via Control Surface Topology Optimisation** *__Armand-Ioan Curpanaru__, Philippe Pastor, Fabrice Demourant, Eric Nguyen Van*
18:20 18:40	**From Conceptual Design to Preliminary Functional Testing: Development and Experimental Maturation of a Morphing Trailing Edge Flap Demonstrator** *__M. C. Noviello__, B. Galasso, F. Amoroso, M. Ciminello, P. Catalano, S. Ameduri*	**Validation of a Virtual Tool for Thermal Runaway Propagation in 21700 Format Lithium-Ion Battery Modules** *__Florian Bader__, Nico Schneiderhan, Martin Wenger, Reinhold Waller*	**Engine Waste Heat Usage by Energizing the Bypass Flow Using Surface Turbulators** *__Myles Zabel__, Marit Blanke, Bernhard Weigand*	**Uncertainty Quantification of the Energy Supply for Low-Carbon Aviation** *__Amal El Bouzekraoui__, Nicolas Monrolin*	**Eco-Design of Mixed-Flow Turbofan Engines for Sustainable Supersonic Transport: Balancing Propulsive Performance and Emissions at the Conceptual Design Stage** *__Borgna Fabrizio__, Roberta Fusaro, Davide Ferretto, Nicole Viola, Marco Marini*	**Experimental Validation of an Aircraft Digital Twin: From Concept to Validation** *Ayşe Nur Dişlitaş, **Melih Yildiz***	**Analytic Modelling of the Effective Mechanical Properties of Origami Sandwich Structures** *__Florian Scheiber__, Kai-Uwe Schröder*	**Validation of Contrails predictions with Ground Observations** *__Tanguy Chauvet__, Romain Moreau, Thomas Menage-Brinster, Corentin Ghestem, Maryam Boujdaa, Bernard Mouton, Pascal Maurer, Clément Langolff*	**System of Systems Optimization for Robust Autonomous Air Cargo Operations** *__Ruben E. Perez__, Jeremy C.-H. Wang*
18:40 19:00	**Experimental testing of spanwise wingbox deformation effects on the achieved morphing trailing-edge shapes of the Translation Induced Camber concept** *__Ilias Tsatsas__, Jurij Sodja, Roeland De Breuker* **Experimental Geometry Reconstruction and Numerical Validation of a Full-Scale Morphing Aileron Demonstrator** *__Davide Mastrodicasa__, Silvia Vettori, Emilio Di Lorenzo, Vittorio Cavalieri, Alessandro De Gaspari*		**Design and testing of a 65 kW Two-Phase Mechanically Pumped Loop Demonstrator for Aerospace Power Electronics Cooling** *__Johannes van Es__, Julian Biesheuvel, Wouter Blom, Martijn Hagen, Fatima Cherdouh, Esli Trejo Peimbert, Ricardo Gantus, Pierre Trolliet, Julian Dumouch, Alice Marquier, and Laurent Labaste Mauhe*	**Priority goal decomposition for multi-level assessment of the conceptual aircraft exposure and impact on environment** *__Zaporozhets Oleksandr__, Kazhan Kateryna, Synylo Kateryna,Makarenko Vitalii, Tokarev Vadim, Chyla Andrzej*	**HYDRA: A hydrogen capability demonstrator with modular exchangeable powertrain configurations** *Aaron Allen, Tilo Hänsel, **Fabian Kerskes, Vitus Reick,** Philipp Riedel, Hannah Hoppe*	**Improving Information Supply by a Digital Design Twin for Electric Propulsion Systems** *__Jörg Brünnhäußer__, Thomas Zimmermann, André Reißig, David Muradyan, Pascal Lünnemann, Kai Lindow*	**Broadband Flow Control via Lattices of Coiled Phononic Subsurfaces** *__David Roca__, Adam R. Harris, Armin Kianfar, Daniel Yago, Christoph Brehm, Mahmoud I. Hussein*	**A simulation tool for airport flight operations** *__Jordi Pons-Prats__, David De la Torre*	

End of the 3rd Day

16th EASN International Conference on
Innovation in Aviation & Space towards sustainability today and tomorrow

Final Agenda

DAY 4 | 30.10.2026

8:30 – 12:00 Registration

ROOM Lecture Hall 1-2-3

9:30 – 10:00
KEYNOTE SPEECH
Technical Considerations for Propulsion Systems of Future European Launchers
by **Prof. Francesco Nasuti** | University of Rome & Air and Space Academy
Chaired by **Prof. Andreas Strohmayer** | Conference co-Chairman

10:00 – 10:30 Coffee Break

ROOM	Lecture Hall 1	Lecture Hall 2	Lecture Hall 3	05 - 108	05 - 112	05 - 114	05 - 117	05 - 053	05 - 059
Session Title	Understanding hydrogen-air combustion in aeroengines (HISTA Final Event)	Next Generation Efficient Airframe Production: Materials, Automation and Lightweight Design	Thermal Management PART IV	Navigation and Control Onboard Systems	Innovative and multi-disciplinary aircraft design for emissions reduction PART III	Aircraft Operability: from design to operational performance PART I	Aerodynamic/ Aeroelastic Analysis PART I	The Race to 2030: Hybrid-Electric & SAF for Regional Routes vs Direct Hydrogen Combustion for Medium-Haul Missions: Which of these two pathways is expected to achieve certification first by 2030, and why?	Enhanced Pilot Interfaces & Interactions for Fighter Cockpit (EPIIC Project)
Session Chair	Mr. Marc Truscelli (SAFRAN Group, France)	Dr. Andreas Bottenberg (Fraunhofer, Germany)	Prof. Michael Weigand (TU Wien, Austria)	Prof. Cezary Szczepański (Warsaw Institute of Aviation, Poland)	Prof. Emmanuel Benard (ISAE-SUPAERO, France)	Prof. Joël Jézégou (ISAE-SUPAERO, France)	Mr. Pietro Rancioni (CIRA, Italy)	Mr. Babelin-Marcel Olivier (EASA - European Union Aviation Safety Agency)	Mr. Jean-Samuel De Visme (Thales Group, France)
10:30 – 10:50	HISTA: Hydrogen combustion in aeroengines Nicholas Tinkenein, **Marc Truscelli**	Beyond the Test Pyramid: A New Approach for Certification of Emerging Materials and Structures **John-Alan Pascoe**	Modeling of Coupled Bearing Chamber and Scavenge Line Processes in a Gas Turbine Engine **Taras Mykhaliechko**, Rita Petreczky, Christophe Cuenca, Clémence Gondolo, Oleksii Lytvhin	Motor control Electronics for Flight Control Actuators, A Trade Study of Architecture and System Level Packaging **Hejal Rahdari**, Julian Regier, Sven Regenscheit	Laminar-turbulent-supercritical-Wing Concept and its Aerodynamic Properties in Transonic Flight **Stoilevski W.**	Selection of Flight Maintenance Strategy in Early Aircraft Design based upon a Model-based Methodology **Veda Sai Vasanth Kolla**, Andrea Arrighi Pantano, Adolf Jekabsons, Sagar Shenoy Manikar	Aerodynamic Characterization of HYPERION Suborbital Spaceplane **Rancioni P.**, Marini M., Palazzo S., Izzo C., Schettino A., Di Benedetto S., Russo G. de Pasquale L. Viola C. Stoican M.G. Bunescu		Innovative Cockpit Display Technologies for Europe's Next-Generation Fighters Christian Endt, **Juan Carlos Gomez Pallarés**
10:50 – 11:10	Mastering key phenomena of H2/air combustion **Etienne Espuzat**	Structural Mass Optimization of Boeing 787 Components Using CFRP-Kevlar Hybrid Composites for Fuel and Emissions Reduction **Mykyta Kolesnik**	Cryogenic thermal conductivity of additively manufactured ceramics for thermal management components **Jonas Weiler**, Christoph Ebert, Martin Schwientkewitz, Maik Gude	Comparison of Classical and Neural Network-Based Approaches for UAV Trajectory Prediction **Meixner M.**, Kozlytin Kostrzi E., Sahbon N., Zajdel A., Szczepański C.	Airfoil Optimization for conceptual design of novel aircraft concepts **L. Neuenburg**, S. Cremer, E. Schülbe, K. Stumpf	Model-based Operational Effects Analysis **Ema Almeida**, Pedro Martins Gonçalves	Analysis of Critical Stores in an Internal Weapons Bay Using Unsteady CFD Based Simulations **John M MacLaurin**, Ruben A Perez	HERFUSE Project *Mario Pinzal*	Pilot Protection by Design for Future Helmet-Mounted Display Systems: Addressing Human Biomechanical Factors in Design to Qualification **Silman Ayad**
11:10 – 11:30	Injection systems design – Incremental & breakthrough technologies **Thomas Komarek**	Surrogate-Assisted Layout and Sizing Optimization of a Composite Wingbox Using Automated GFEM Generation **Nikolaos Zlatos**, Andrea Cini	Demonstration and Performance Assessment of Two-Phase Cooling for Fuel Cell Stacks in Commercial Aviation **Marcus-Benedict Bustt**, Henk Jan van Gerner, Georg Wichthaar	Software-in-the-Loop Validation of Active Disturbance Rejection Control for Autonomous Taxiing of Unmanned Aircraft **Albert Zajdel**	An Ice-Tolerant Tailplane Sizing Methodology for Large Aircraft Rafa Tras-Roca and Miriam Cire Cuezzo, Salvatore Corcione, Alessandro Zanon, Lucas Kugler	Computational Fluid Dynamics Investigation of Multi-Element Tubercle Wing Design **Martin M. Atkeler**, Ruben E. Perez	Experimental Research of Cantilever Wing Flutter and Its Dependence on Mach and Reynolds Numbers based on Unsteady VLM Modeling **Martynas Lendraitis**, Jonathan Gerald Pelham, Mindaugas Dagilis, Sigitas Kilikevičius		The User in Mind – A Human Factors focused MBSE Approach to Use Case Analysis **Engelbert Hartmann**, Lucas Dullenkopf, Andreas Hemmert
11:30 – 11:50	H2 combustion technology specifications and operability assessments in representative aircraft conditions **Murthy Ravikanti**	The Application of Physics-Informed Neural Networks for Structural Strength Enhancement **J. Kiseleva, K Klionis, K. Filus, S.M.D. Tavares**	Flight and Wind Tunnel Performance Characterization of a Structural Folded-Core Composite Skin Heat Exchanger Using Temperature-Sensitive Paints **Marvin Egor Lanschow**, Simon Thiesen, Stefan Zoller, Andreas Bender, Jakob Gagliardi, Rico Poser	Methods of improving inertial navigation based on terrain-referenced measurements **Krystian Borodacz**	The roadmap for sustainable aviation regarding noise reduction: main objectives, solutions and key considerations **Maria Zamarreño Suárez**, Rosa Arrabiu Arrabiu Valdés, Francisco Pérez Moreno, Cesar Asensio Bermejo, Alejandro Delgado-Aguilera Jurado and Víctor Fernando Gómez Comendador	Investigation and Formalization of the Relationship between Sustainability and Operability **Pratik Anand Badewadikar**, Vinoth Kumar Arumugaperumal, Jalil Jekabsons, Sagar Shenoy Manikar	Evaluating metamaterials for aeroelastic instability mitigation in wind energy **Sergio G. Rancac**, David Rocca, Enrique Ortega, Juan Carlo	CAVENDISH Project *Herve Morvan*	Next-Generation Multi-Modal Interaction Systems in Advanced Fighter Cockpits Sergio Sanchidrián, **José Alfonso Garcia Rodriguez**
11:50 – 12:10	Open Discussion	Multiscale Modelling and Machine Learning of Shock-Absorbing Hyper-Elastic Metamaterials for Aerospace Payload Protection **Costa A.**, Alpert D., Dagan D., Lubarsky-Vaks O., Oliver X.	Computational Investigation of Oil Flow Characteristics for Lubrication and Cooling Optimization in a new complex aircraft transmission **Helmut Nied**, Ewerton Berglund Hedjil-Freytas	Modelling Data Buses **Malte Raben**, Jonte Kosetka	Open Discussion	How can AI assist in Live Decision-Making for Aircraft Fleet Performance in Airlines Maintenance Control Centers? **Vincent Cheviere**, Nicolas Andre, Svend Lucchesi	Flutter Analysis of Flexible Wing Configurations Using Pre-Stressed Structures Technique **M. Bacioiagă**, R.A. Bacioiagă, F. Vladareanu	HERA Project *Piccapa Giuseppe*	Open Discussion
12:10 – 12:30			CFD-Analysis of an integrated Turbofan Guide Vane Heat Exchanger for Hydrogen and Conventional Propulsion systems **Gernot Berghard Hedjil-Freytas**, Patrick Legginer, Helmut Wost						

12:20 13:30	Lunch Break						
ROOM	Lecture Hall 1	Lecture Hall 2	Lecture Hall 3	03-108	03-112	03-114	03-117
Session Title	**Maintenance, Repair & Overhaul (MRO)**	**Testing & Simulation based analysis of aircraft structures**	**Thermal Management PART V**	**Aviation in Transition: Bridging Engineering, Operations and Policy**	**Innovative and multi-disciplinary aircraft design for emissions reduction PART IV**	**Aircraft Operability: from design to operational performance PART II**	**Aerodynamic/ Aeroelastic Analysis PART II**
Session Chair	**Dr. John-Alan Pascoe** (TU Delft, Netherlands)	**Mr. Dieter Kohlgrüber** (German Aerospace Center (DLR), Germany)	**Prof. Michael Weigand** (TU Wien, Austria)	**Mr. Laurent Joly** (ISAE-SUPAERO, France)	**Prof. Andreas Strohmayer** (University of Stuttgart, Germany)	**Prof. Joël Jézégou** (ISAE-SUPAERO, France)	**Mr. Pietro Bancioni** (CIRA, Italy)
13:30 13:50	**AJP-Based Strain Sensing for CFRP Structures: From Analogical Validation to Tank-Level Application** *Stefano Perilli, Francesco Galioni, Emanuele Monfrì, Massimo Di Pietro,* **Francesco Di Capia**, *Vincenzo Iannone, Alessandro Mariani, Michele Simoncini, Massimo Panella, Eva Milella*	**A Computational Framework for Predicting the Mechanical Properties of Recycled CFRP Laminates** **Ikeitsu Tsunetomi**, *Konstantinos Tserpes*	**Development and testing of a lightweight two-phase pumped cooling system for aviation fuel cells in the BRAVA project** **Henk Jan van Gerner**, *Georg Mühlhofer, Marcus Benedict Bunk*	**GHOST: A Geospatial Decision-Support Framework for Hydrogen Aircraft Integration into European Flight Networks** **Ayodeji C. Akinola**, *Thomas Reuerle, Peter Hecker, Mirac Lauer*	**A Mid-Fidelity Aeroacoustic Assessment of the Hydrogen-Fuel-Cell Propulsion System Ground Demonstrator of the NEWSKEN Project** **M. Barbarino**, *A. Visingardi, F. Petrarolo, G. Rauio, F. Morlando, S. G. Behar*	**Strategies for Technology Infrastructures in Aviation Degenhardt R.**, *Mistrot A., Cegla G., Kärwerk, A., Moreno, F., Cardoso, Hakkaart J., Land P., Coulouagaera Y., Dnpke F., Zalewski M.*	**Development and Numerical Investigation of Dimple Surfaces for Flow Loss Reduction on Grez Side Faces** *Gernot Burghard Hecht-Pinpfaz,* **Helmut Mad**
13:50 14:10	**Embedded FBG-Based Smart Composite Panels for Aerospace Structural Health Monitoring and Impact Detection** *Alessandro Amaizo, Paolo Maggiore,* **Walter D.I. Dalla Vedova**	**Simulation of aircraft kinematics during ditching using a meshless painleri method** **D. Kohlgrüber**, *M. Petsch*	**Aerodynamic Design and Evaluation of Open and Shrouded Propellers for eVTOL Applications** *Julia Sembrowski, Daniel Kessler, Jonas Oldewurtel, Vladimir Yanev, Ingo Staack,* **Jens Friedrichs**	**Tailoring Aviation Decarbonisation Roadmaps: Advancing AeroMAPS Towards Highly Customizable Scenario Modelling** **Antoine Soligos**, *Thomas Planes, Scott Delbecq*	**Uncertainty-aware global sensitivity analysis for aircraft conceptual design** **Alessandro Borgia**, *Francesco Oreffice, Arvind Gangoli Rao, Konstantinos Baltas, Georgios S. Aviritis, Arnesto I. Kalfas*	**Regional Operative Scenarios for Hybrid-Electric Regional Aircraft** **Prashant Prashant**, *Pieter-Jan Proesmans, Maurice Hoogveet, Fabien Berho, Philippe Barabinot, Rui Marcelino , Catarina Ferreira, Pablo Martins*	**Flight Dynamics Assessment of a Twin-Fuselage Aircraft Using a Conceptual-Level Aerodynamics Model** **Álvaro Cobo-González**, *Eduardo García-Santana, Cristina Cuerno-Rejado*
14:10 14:30	**Opportunities and challenges of reversed ice protection systems for regional aviation** *Valerie Pommier-Budinger,* **Marc Budinger**, *Pierre Bonhomme, Yohan Sabathe, Jason Pothin, Valerian Palanque*	**Aero-Structural Modelling of a Two-Engine-at-Rear-Fuselage Nacelle Winglet for Aeroelastic Response Analysis** **Feide Zhou**, *Baocheng Zhang, Chao Yang*	**Comparison of numerical and experimental investigations of an air cooling duct under propeller slipstream conditions and headwind effects** **Rabhjot Singh**, *Dirk Soggeberg, Sebastian Meinlard, Stefanie de Graaf*	**Fleet-Level Assessment of Multi-Fuel Aircraft in the European Flight Network** **Adnan Mustaf**, *Ilaria Gallimard, Martti G. Kalli, Ling L. Lim*	**Multidisciplinary Design Optimization of Hybrid Aircraft : Influence of the Range of Mission Profiles on Optimal Design** **Didier Brousset-Mathieu**, *Eric Nguyen Van, Sébastien Defaisit, Xavier Roboam, Bruno Sareni*	**Reliability-Based Maintenance Cost Estimation for Alternative-Propulsion Aircraft** **Ayodeji C. Akinola**, *Blessing Ikeinfornwa, Kalcani Mamia, Mirac Lauer*	**Methodology for Immersive AR/VR visualization of CFD simulations** **Sergio Avila-Sanchez**, *Alvaro Cuerno-Rejado, Oscar Lopez-Garcia, Ricardo Fernandez-Aldama, Guillermo Torres-Prestores*
14:30 14:50	**Noise Reduction of Laser-Ultrasonic Signals in CFRP Using a Hybrid Deep Learning Approach** **Adil Mhaite**, *Caglar Hasik, Rebecca Rodack, Geeta Wende*	**Progressive Damage Analysis of Stiffness-Transition Regions in Composite Aerostructures Under Static and Impact Loading** *Nande Girardi, Fekd Oisin Cahill,* **Dilon Bigi Fücel**	**Water droplet spray injection for optimization of RAM air heat exchangers in next-generation aircraft: proof of concept, test set-up and results** **Monique Lamers**, *Thomas Ganesboom, Johannes van Es*	**A Roadmap for the Reliable Adoption of Wide Bandgap Power Electronics in Electric Aircraft Propulsion** **Aditi Sengupta**, *Jeff Kuperer, Kurt Gneelich, Jose Chamorro Castillo, Kjo Koch, Stefan Kaiura*	**Quantifying Sensitivities and Efficiency Penalties of Conventional TLABs on Fuel-Cell-Electric Regional Architectures** **Simon Miller**, *Georgi Atanasov, Thomas Zill*	**Reducing fuel flow and CO2 emissions during cruise flight through continuously increasing altitude operations on the North Atlantic Track System** **Marco-Michael Temme**, *Meinrad Kreisinger*	**Enhanced URANS Reynolds-Number Scaling for Flying-Tailless Design** **Marco Trost**, *Rainer Schnell*
14:50 15:10	**Automated Digitization of Maintenance Handwritten Data Using Multiple Fine-Tuned Models** **Alejandro Montero-Mendoza**, *Tiago Vaz, Leonardo Rodrigues Oliveira, Ilan Brouwer*	**Efficient computation of the dynamic response for viboacoustic metamaterials on Stife stiffened plates** **Daniel Abadal**, *Manuel Pérez-Casarrubios, Lukas Reitenbichler, Karl-Uwe Schröder*	**Gradient-based Aerodynamic Optimization and Experimental Validation of a Wing-integrated Heat-Exchanger for Fuel Cell Aircraft** *F. Sell , L. Sell, S. Müller, J. Mosimüller, H. Pfeifer*	**Operational Efficiency through Aircraft Sharing: A Tactical Planning Perspective** **Vasiliki Kalligia**, *Thomas Magoutis, Constantinos Antoniou*	**Assessing Noise-Related Environmental Interdependencies of ETAEA Aircraft Technologies across Vehicle, Airport and Fleet Levels** *Oleksandr Zaporozhets, Vitalii Isaiukmenko,* **Kateryna Kozhun**, *Vadim Tokarev, Andrzej Chyla*	**Using Continuous-time Markov Chains for Model-based Safety Analysis** **Olivier Sajin**, *Matthias De Lozzo, Tony Ghueldre, Fabiana Prassinnos, Christel Seguin*	**Aerodynamic Considerations for Autonomous Urban UAV Systems: Investigating Compact EDF Architectures for Close-Proximity Flight Operations** **E. Mikayelyan**
15:10 15:30		**Thermal-Function-Driven Design and Integrity Assessment of Multifunctional Multilayered Sandwich Structures for Aircraft Structures** **Xiaohui Chen**, *Karl-Uwe Schröder*		**Business Impact Assessment of Environmental Decision-Support Tools for Aviation and Innovative Air Mobility** *Anna Pasiaclogk,* **Sofia Ioalidou**, *Eleftheria Georgiadi, Eva Pasiaclogk*	**Fleet-Level Effectiveness and Fuel Penalty of Vertical Control Avoidance for Long-Range Aircraft in Conceptual Design** **Shao-Yu Wang**, *Bill Koten, Simon Kirschler, Dennis Fischer*	**Management of Command-and-Control Link Loss for Automated VCAs Flight in Uncontrolled Airspace** **Bayan Iliev**, *Roberto Tropeanini, Marko Radanović*	
ROOM	Lecture Hall 1-2-3						
14:00 16:30	**Concluding Remarks, Best Poster Award Announcement & Conference Closing** by Prof. Andreas Strohmayer | Conference Co-Chairman						
	End of the 15th EASN International Conference						