

10th EASN Virtual International Conference on
Innovation in Aviation & Space to the Satisfaction of the European Citizens
Final Agenda - Detailed version

DAY 1 | 02.09.2020

Time (CET)			ROOM 1 (Click to join the Virtual Meeting ROOM)						
9:15 - 9:30			Welcome & Introduction by the Conference Chairmen						
9:30 - 10:00			EU aviation R&I in HE: present and future perspectives Mr. Andrea Gentili • European Commission Deputy Head of Unit - D3 Low Emission Future Industries						
10:05 - 10:35			Clean Sky: towards climate-neutral aviation Mr. Axel Krein • Clean Sky 2 Joint Undertaking Executive Director						
10:35 - 11:00			Break						
ROOMs			ROOM 1 (Click to join the Virtual Meeting ROOM)	ROOM 2 (Click to join the Virtual Meeting ROOM)	ROOM 3 (Click to join the Virtual Meeting ROOM)	ROOM 4 (Click to join the Virtual Meeting ROOM)	ROOM 5 (Click to join the Virtual Meeting ROOM)	ROOM 6 (Click to join the Virtual Meeting ROOM)	ROOM 7 (Click to join the Virtual Meeting ROOM)
Session Title			Clean Sky Thematic Projects: where the Bottom-Up meets the Top-Down (PART I)	Aerodynamic Analysis & Design (PART I)	R&D Research in the Field of Aeronautics & Air Transport: ASUMED, CENTRELINE, ECO-COMPASS, JETSCREEN, PASSME overview presentations	Hybrid-electric flight (PART I)	New generation of hybrid aircraft structures (PART I)	From Sensors to FMS	Air Traffic Management (ATM) & Airports
Session Chair			Dr. Jean-Francois Brouckaert Clean Sky Joint Undertaking	Prof. Christian Breitsamter Technical University of Munich, Germany	Mr. Vladimir Cid-Bourlé Innovation and Networks Executive Agency (INEA)	Prof. Andreas Strohmayr University of Stuttgart, Germany	Dr. Alexander Shanygin Central Aerohydrodynamic Institute (TsAGI), Russia	Dr. Cezary Szczepanski Warsaw Institute of Aviation, Poland	Prof. Octavian Thor Pieter University Politehnica of Bucharest, Romania
11:00 - 11:20			Clean Sky Thematic Projects: where the Bottom-Up meets the Top-Down Introduction <i>Jean-Francois Brouckaert</i>	Design of a Morphing Leading Edge for use as a High Lift Device for a Regional Aircraft Concilio Contell Azis, Volker Landersheim, Jens-David Wacker, Seiji Adachi, Sanja Arnold-Keifer, Michael May	ASUMED project presentation <i>Thomas Reis</i>	Foundations towards the future: FUTPRINT50 TLARS, an open approach <i>Ricardo Reis, Francisco Palazzo, Carlos Ilario, Evert Windels, Dominik Eisenhut</i>	Novel hybrid layouts for composite civil airframes based on UD structure concept <i>M. Zichenkov, A. Shanygin</i>	Review and selection of commercially available IMU for short period of time inertial navigation <i>Krzysztof Borodacz, Szczepanski Cezary</i>	Enhanced cockpit avionics systems for greener aviation <i>Patrick Delpy, Thierry Maref</i>
11:20 - 11:40			Low-emission kerosene combustion with the Lean Azimuthal Flame combustor concept <i>E. Masorakos, P.M. de Oliveira, A. D'Anna, G. de Falco, M. Strignano, N. Nairay, L. Miniero, D. Friedrich, A. Giusti</i>	Methods of analyzing isolated and ducted fixed-pitch propellers under non-axial inflow conditions <i>M. Cerny, J. Faust, C. Breitsamter</i>	CENTRELINE: Latest Progress in TRL 3 Research on Fuselage BLI Propulsion <i>Arne Seitz</i>	Development of top-level requirements for regional aircraft based on the needs of the Russian market, Maksim Ovidenko, A.N. Varyukhin, B.G. Nesterenko, A.V. Vlasov, V.V. Kiochkov, A.E. Karпов, E.V. Varyukhina	Study of impact resistance of thin-walled hybrid metal-composite rods <i>A. Chernov, E. Dubovikov, N. Guseva, I. Mareskin, A. Shanygin</i>	Simulation and Testing of Flight Stabilisation System Using Trimmers in the Longitudinal Channel <i>Cezary Szczepanski, Mariusz Krawczyk, Albert Zajdel</i>	Applying Machine Learning Modeling to Enhance Runway Throughput at A Big European Airport <i>Guillaume Stempfel, Victor Brassard, Antoine Bonnefoy, Mohamed Elejmi, Vincent Trévis, Van de Visscher</i>
11:40 - 12:00			CHAIRLIFT: Compact Helical Arranged combustors with lean LIFTED flames <i>Antonio Andreini</i>	Aerodynamic Design and Optimization of Propellers for Multirotor <i>Witold Klimczyk</i>	Results of the ECO-COMPASS EU/China project and an outlook on future research topics for the introduction of eco-composites to aviation composite structures <i>Jens Bachmann, Xiasu Yi</i>	Selecting figures of merit for a hybrid-electric 50 seat regional aircraft, Nicolas Moebs	Investigation of prospective structure of high aspect ratio strut-braced wing for regional aircraft <i>E. Dubovikov, D. Fomin, I. Mareskin, Y. Mirgorodskiy, D. Vederikov</i>	Simulation and Testing of Flight Stabilisation System Using Trimmers in the Lateral Channel <i>Cezary Szczepanski, Mariusz Krawczyk, Albert Zajdel</i>	Impact of Weather Conditions on Airport Arrival Delay and Throughput <i>Álvoro Rodríguez-Sanz, Javier Cano, Beatriz Rubio Fernández</i>
12:00 - 12:20			Impact of stationary and transient factors on the formation of NOx in simulated flames <i>Dmytro Dolmatov, A.V. Kukurudza, S.V. Epifanov, S.M. Nyzhnyk</i>	Study on a twin-fuselage transport airplane model in a low speed wind tunnel <i>Evgeny Pigusov, V. Chernousov, A. Krutov</i>	JETSCREEN - JET Fuel SCREENing and Optimization <i>Bastian Rauch</i>	Operator Technology Impact Simulator - assessing innovation from operator perspective <i>Yorick Teuwen</i>	Investigation of damage evolution on micro level in CFRP laminates using high frequency acoustic microscopy and acoustic emission <i>E. Morakos, T. Rybakowski, E. Dubovikov, I. Gulevsky, Y. Petroniyuk, V. Levin</i>	Sensors for UAVs dedicated to agriculture <i>Cezary Szczepanski, Prushotaram Raja</i>	Advanced Passenger Movement Model Depending On the Aircraft Cabin Geometry <i>Marc Engelmann, Tim Kleinheinz, Mirko Horning</i>
12:20 - 12:40			RAPTOR: Research of Aviation PM Technologies, modelling and Regulation <i>Ayce Celikel</i>	Aerial Stability of an In-Flight Water Scooping System <i>Mario Verhaegen, Huub Timmermans, Wouter van den Brink</i>	PASSME: Personalised Airport Systems for Seamless Mobility and Experience <i>Sicco Santema</i>	Hybrid electric distributed propulsion overall aircraft design process and models for general aviation <i>Juan Pablo Rusio, Jordi Joragou, Angel Gomez Pacheco, Paul Loanel, Raquel Alonso Castilla</i>	Parametric investigation of strength of domestic aircraft structure using the models based on the doublet lattice method <i>D. Vederikov</i>	A concept of an automatic flight control system capable of aerobatic flight <i>Tomasz Rogalski, Pawel Ruciodo, Jacek Prusi</i>	Numerical Implementation and validation of the simulation models of reference SID and STAR procedures for the RPAS integration research <i>Daniel Lichón</i>
12:40 - 13:00			HMT: A Human Factors approach for multimodal collaboration with Cognitive Computing to create a Human intelligent Machine Team <i>DORMOY Charles, ANDRE Jean-Maric, PAGANI Alain, MINASKAN Narek</i>	The dependence of the speed of sound in the Earth's atmosphere on its density and the correction of Mach's number <i>Vladimir Kirshkhalia</i>	The Schiphol Innovation Way of Working <i>Max Davidse</i>				Tactical Runway Scheduling for Demand and Delay Management <i>Álvoro Rodríguez-Sanz, Pablo López Cázor, Javier A. Pérez-Castán, Fernando Gómez Comendador</i>
13:00 - 14:00			Break						
Time (CET)			ROOM 1 (Click to join the Virtual Meeting ROOM)						
14:00 - 14:30			Preparing a zero carbon aviation in Europe Mr. Bart Biebuyck • Fuel Cells and Hydrogen Joint Undertaking (FCH JU) Executive Director						
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Session Title			Clean Sky Thematic Projects: where the Bottom-Up meets the Top-Down (PART II)	Aerodynamic Analysis & Design (PART II)	R&D Research in the Field of Aeronautics & Air Transport: UHURA Project Session	Hybrid-electric flight (PART II)	New generation of hybrid aircraft structures (PART II)	Non-Destructive Testing and Structural Health Monitoring of Aircraft structures (PART I)	Human Factors towards Increasing Automation & Autonomy (SAFEMODE)
Session Chair			Dr. Jean-Francois Brouckaert Clean Sky Joint Undertaking	Prof. Dragan Kozulovic Hamburg University of Applied Sciences, Germany	Dr. Jochen Wild German Aerospace Center (DLR), Germany	Prof. Andreas Strohmayr University of Stuttgart, Germany	Dr. Alexander Shanygin Central Aerohydrodynamic Institute (TsAGI), Russia	Prof. Elena Jasuniene, Kaunas University of Technology, Lithuania & Prof. Dr. Marco Ricci, University of Calabria, Italy	Mr. Simone Pozzi Deep Blue, Italy
14:40 - 15:00			Agent based model to improve Flight Crew performance through enhanced cockpit perceptual variables <i>Miquel Angel Piera</i>	Cooling System Design for the Internal Combustion Engine of a BWB UAV Prototype <i>Emmanuel Alexiou, Stylianos Dimitriou, Thomas Dimopoulos, Dimitrios Palkaios, Pericles Panagioutou, Kyros Yakinthos</i>	Unsteady High-Lift Aerodynamics - Unsteady RANS Validation: An Overview on the UHURA Project <i>Jochen Wild</i>	Power control system for a lightweight electric aircraft <i>Fedor Zagumennov, Varyukhin Anton N., Ivanov Grigory S., Zhuravlev Denis L., Zakharchenko Victor S.</i>	Development of Numerical Tools for Optimization of Lightweight Details Based on Mechanical Material Models <i>S.Belikov, I. Kondakov</i>	Sensing devices with a sigma-delta sensing characteristics to simplify data interpretation and enhance robustness in Structural Health Monitoring <i>Helge Pfeiffer, Sevilla Sunetchieva, Michael Stamm, Martine Wevers</i>	Informing design solutions with Human Factors data from safety reports <i>Simone Pozzi, Ricardo Jose Nunes dos Reis</i>
15:00 - 15:20			HARVIS: Cognitive assistant in the cockpit <i>Stefano Bonelli, Antonio Rodriguez-Vazquez</i>	Aerodynamic and stability analysis of a VTOL flying wing UAV <i>Chris Blamis, Ilas Zacharakis, Pavlos Kaporas, Kyros Yakinthos</i>	Progress in Meshing for Dynamic High-Lift CFD <i>J.E.J. Maseland, J. Wild, H. van der Ven</i>	Optimal Control of the Energy Management of a Hybrid Electric Helicopter for Urban Air-Mobility <i>Teresa Donatelo, Claudia Lucia De Pascalis, Luciano Stratella, Antonio Ficarella</i>	The new indicator composite coatings to detect the place of BVI on aircraft structures <i>Buzalova O.S., Sapozhnikov S.B., Bezmeshin A.V., Ignatova A.V., Kudryavtsev O.A.</i>	Non-destructive Evaluations of Composite-Adhesive Bonding with Data Fusion <i>Bengisu Yilmaz, Elena Jasuniene, Abdoulou Ba, Huu Kien Bui, Gerard Berthiau</i>	Higher levels of automation throughout the aviation domain. Low fidelity case studies for risk assessment and HMI design <i>Rolf Zon</i>
15:20 - 15:40			ELICA: Economically Driven Requirements for a Hybrid-Electric 19-Passenger Commuter Aircraft <i>Maximilian Spangenberg</i>	Energy approach to transonic flutter and LCO with shock waves movement <i>Svetlana Kuzmina, Fanil Ishmuratov, Oleg Karas</i>	Progress towards numerical simulation of the dynamic Krueger motion with Chimera methods <i>Frederic Moens, A. Fischer, R. Heinrich, A. Raiche, J.C. Kok, T. Renaud</i>	Comparison of Optimized Thermal Management Systems for Hybrid Electric Aircraft <i>Hagen Kellermann, Mirko Horning</i>	Stack fabric lelling to get PCM GIC/GIC improvement and LVI tolerance <i>Forenal G.A., Kheruvimov A.V., Nikonov A.V., Sapozhnikov S.B.</i>	Integration and evaluation of a meander-shaped fiber-optical sensor in FRP coupons <i>Andreas Preiser, Friedrich Wolf-Monheim, Athanasios Dahnis, Kai-Uwe Schröder, Wolfgang David, Paul Zandbergen</i>	Addressing future operations concepts with increasing automation using human-in-the-loop simulations: the SAFELAND project <i>Stefano Bonelli</i>
15:40 - 16:00			UNIFIER19: Conceptual design of a near-zero emission and cost-efficient regional air mobility solution <i>David Erzen, Fabrizio Oliviero, Lorenzo Trainelli</i>	2D optimization of a Small Horizontal Axis Wind Turbine blade using flow control techniques <i>Charalampos Papadopoulos, Pavlos Kaporas, Zinov Vahostergios, Dimitrios Misiaris, Kyros Yakinthos</i>	Hybrid RANS-LES simulation of a deflecting Krueger device <i>Song Chen, F. Bagheri, P. Eksson, S. Wallin</i>	Thermal management for a hybrid-electric 50 seat regional aircraft <i>Ricardo Reis, Francisco Palazzo, Carlos Ilario, Ricardo Gandolfi, Walter Alfonso, Nicolas Roda, Timoleon Kipouras, Panagiotis Laskaridis, Andrei Chelkin, Yury Ravikovitch, Nikolay Ivanov, Leonid Poryaev, Dmitry Holobtsev</i>	Hybrid CF/aramid thermoplastic to deliver LVI tolerance and stiffness of skin on a new generation aircraft grid structures <i>Leshkov E.V., Sapozhnikov S.B.</i>	Air-coupled ultrasonic measurement of in-plane elastic properties of a non-uniform composite <i>Ivan Nikolov, Vicki James, P. Ian Nicholson, Chris Silva, Chris Smith, John Hans, Nelly Fernandez, Abbas Egbeyemi, James Sexton, Ma Missous, Joseph Dobson</i>	From Rigid Automation to Flexible Autonomy <i>Guy Boy</i>
16:00 - 16:20			UNIFIER19: Methodologies for the initial design studies of an innovative community-friendly miniliner <i>Lorenzo Trainelli, Carlo E. D. Ribaldi, Alberto Rolando, Francesco Salucci</i>	Mesh-Diverging Inviscid Adjoint Solutions <i>Carlos Lozano, Jorge Ponsin</i>	A dynamic immersed boundary method for moving bodies and FSJ applications <i>Francesco Capizzano, T. Sceptico, P. Iannelli</i>	Safety and Certifiability evaluation of Distributed Electric Propulsion Airplane in EASA CS-23 category <i>Joel Jezegou, Um air Sultan</i>	Hot-pressing CF nonwoven thermoplastic/thermoset composite usage to minimise high-velocity impact damage of aerospace-grade materials <i>Zhikharev M.V., Bezmeshin A.V., Olyvernikov N.A., Sapozhnikov S.B.</i>	Development of Air-Coupled ultrasound Guided wave numerical model in COMSOL Multiphysics <i>Aadhih Asokkumar</i>	Human Factors in Design – from imagination to realisation ROUNDTABLE
16:20 - 16:40			HECARRUS: Hybrid Electric Small Commuter Aircraft conceptual design <i>Vasilios Gkoutzamanis, Christos Nasoulis, Giorgos Protopapadakis, Anestis Kalfas, Mavroudis Kavvalos, Dimitra-Eirini Diamantidou, Smuti Sahoo, Konstantinos Kyprianidis, Panagiotis Tsirikoglou, Ndaona Chokani</i>	Artificial neural networks in panel method for solving aerodynamics problems <i>Dmitry Strelets, Kataev A.A., Khrustalev A.L.</i>	Progress towards simulation of Krueger device motion with Lattice Boltzmann Methods <i>Jorge Ponsin Roca, C. Lozano</i>			Delamination detection in composites using non-linear vibro-acoustic modulation <i>Tommaso Seresini, Christ Glorieux, Helge Pfeiffer, Martine Wevers</i>	
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Session Title			Clean Sky Thematic Projects: where the Bottom-Up meets the Top-Down (PART III)	Aerodynamic Analysis & Design (PART III)	R&D Research in the Field of Aeronautics & Air Transport: "Aviation sustainability: ACACIA – ALTERNATE – CLIMOP – GREAT common session"	Hybrid-electric flight (PART III)	2D-material based devices in aeronautics and aerospace: from modeling to experimental results	Non-Destructive Testing and Structural Health Monitoring of Aircraft structures (PART II)	Noise Prediction and Control Strategies
Session Chair			Dr. Jean-Francois Brouckaert Clean Sky Joint Undertaking	Prof. Dragan Kozulovic Hamburg University of Applied Sciences, Germany	Dr. Jordi Pons-Prats CIMNE Spain	Prof. Andreas Strohmayr University of Stuttgart, Germany	Prof. Patrizia Lamberli University of Salerno, Italy	Prof. Elena Jasuniene, Kaunas University of Technology, Lithuania & Prof. Dr. Marco Ricci, University of Calabria, Italy	Prof. Massimo Viscardi University of Naples "Federico II", Italy
16:50 - 17:10			GLOWOPT: A novel approach to minimize the climate impact of next generation aircraft <i>Kaushik Radhakrishnan</i>	Steady and Unsteady RANS Modelling of Wake Effects and Grid Resolution Requirements in a Low-Pressure Turbine Cascade <i>Alexander Führung, Dragan Kozulovic, Christoph Bode, Matthias Franke</i>	ACACIA: Improved understanding on aviation's climate impact <i>Sigrun Matthes, Klaus Gierens, Robert Sausen & ACACIA Project Team</i>	Wing conceptual design for the airplane with distributed electric propulsion, <i>Pavel Hospodár, Nikola Zekharchenko, Jan Kleso</i>	2D materials in field effect electronic devices and sensors <i>Antonio Di Bartolomeo</i>	Investigation on Low Velocity Impact Damage Identification with Ultrasonic techniques under different sensor network conditions <i>A. Bellini, F. Cadini, C. Scarafutti, M. Giglio, N. Cimminiello, P. Salvato, E. Monaco, F. Romano</i>	Vibro-Acoustic Response Analysis and Experimental Validation of a Turbo Prop Insulation Package <i>Giuseppe Bizzano, Massimo Viscardi, Valeria Maria Parpora</i>
17:10 - 17:30			GLOWOPT: Climate optimization of aircraft operations and design: A review and implications on modelling requirements <i>Kathrin Deck, Volker Gerber, Feijia Yin, Irene Dedoussi, Raouf Vos, Pieter-Jan Proessmans, Florian Linke, Kaushik Radhakrishnan, Malte Nikbay, Benjamin Lahrs, Katrin Dahlmann, Sigrun Matthes</i>	Development of a Cargo Airdrop Modeling Method for a Tactical Blended-Wing-Body UAV <i>Dimitrios Miltiadis, Nikolaos Mathioudakis, Pericles Panagioutou, Kyros Yakinthos</i>	ALTERNATE: Assessment on Alternative aviation fuels development <i>Jordi Pons-Prats, Gustavo Inosco</i>	Effects of an innovative distributed propulsion system on a regional aircraft wing configuration <i>Giovanni Andreuffi, M. Minervino, G. Mingione</i>	Highly stretchable PDMS matrices for graphene-CNT piezoresistive sensors <i>Matteo La Rosa, Maria Laura Lo Galfo, Gennaro Rallo, Giovanni Filippone, Marino Lavorgna</i>	Development of Eddy Current based inspection system for detection of defects in Carbon fibre <i>Ian Nicholson, Vicki James, P. Ian Nicholson, Chris Silva, Chris Smith, John Hans, Nelly Fernandez, Abbas Egbeyemi, James Sexton, Ma Missous, Joseph Dobson</i>	Laser scanning vibrometry technique for the damping assessment of new structural multifunctional epoxy resin for aerospace <i>Giuseppina Barra, Maurizio Arena, Luigi Veruccio, Massimo A. Viscardi, Libera Guadagno</i>
17:30 - 17:50			RHEA: Robust by design ultra high aspect ratio wing and airframe <i>All Elham, Rolf Radespiel, Marco Fossati, Raouf Palacios, Anne Gazarik, Koen Artsis</i>	Multidisciplinary wing concept for aircraft preliminary design purposes <i>Pavel Hospodár, Armad Drabek</i>	CLIMOP: Climate assessment of innovative mitigation strategies towards operational improvements in aviation <i>Carlo Abate, K. Sufopu, B. Ohlenforst, J. Middel, V.S.V. Dhansethy, B.F. Santos, F. Yin, P. Rao, F. Linke, C. Weder, I. Ozkol, B. Bosnjinar, T. Roelger, E. Branchini, C. Abate, S. Gottardt, V. Grewe, S. Matthes</i>	Innovation Design Analysis of the Optimal Aerodynamic Adaptive Smart Structures for Disk-Body Hybrid Electric Solar Aircraft and Airship Concepts <i>Leonid Poryaev, Yury Ravikovitch, Michail Kuprikov</i>	Effect of non-covalent functionalization of graphene-based nanoparticles on the local electrical properties of epoxy nanocomposites <i>Mariateresa Raimondo, Maria Rossella Nobile, Carlo Naddaro, Liberata Guadagno</i>	Optimising Design for Inspection <i>Prof. E. Jasuniene, Kaunas University of Technology, Lithuania & Prof. R. Pullin Cardiff University, UK</i>	Boundary Element Method for the acoustic improvement of aircraft headrests made with electrospun mats <i>V. Giannelis, F. Branda, J. Passaro, G. Petrone, M. Barbarino, R. Citarella</i>
17:50 - 18:10			U-HARWARD: a TH Project Aiming at Ultra High Aspect Ratio Wings Advanced Research and Design <i>Sergio Ricci</i>	A CSM-CFD methodology applied to the design of a cryogenic WT model <i>S. Russo, J. Kirchner, G. Graumann, S. Adden, N. Paletta</i>	GREAT: Greener Air Traffic Operations <i>Abdeloual Rabeb, Finke Michael, Temme Marco-Michael</i>	Self-based design for hybrid-electric: a decision-making approach <i>Timoleon Kipouras</i>	Studies on novel way for realizing an epoxy coating for Aerospace applications <i>Federico Micculla, A. Carato, C. Cencetti, A. Sorrentino, R. Cossi, S. Bellucci</i>	Acoustic based Structural Health Monitoring of Aircraft Structural Testing <i>S. Grigg, M. Pearson, C.A. Featherston & R. Pullin</i>	
18:10 - 18:30			INFRA-CA3VIAR Rig: Experiments on combined intake-fan aerodynamics in the propulsion test facility (PTF) <i>Friedrich Eggers, Harjes, Frantzheld, Brunow, Gruber, Seume, Gößling</i>	A CFD study on the strut interference on a regional aircraft wind-tunnel model <i>S. Russo, J. Moellerer, J. Alderman, N. Paletta, S. Adden, L. P. Ruiz-Catavera</i>		Analysis of efficiency of commuter airliners with hybrid electric propulsion <i>A.N. Varyukhin, V.S. Zakharchenko, P.S. Sunsov, D.Ya. Rakhmanukov, M.A. Ovidenko</i>	Tolerance analysis of a GFET transistor for aerospace and aeronautical application <i>Vincenzo Tucci, Patrizia Lamberli, Monica La Mura, Francisco Pasadas</i>	Failure analysis of ATR 72 low bar – opportunity for re-design for inspection <i>Ivana Atanasovska, Dejan Momcilovic</i>	
18:20 - 18:50			CA3VIAR: a step forward towards modelling and testing aerodynamic and aeroelastic instabilities experienced by Low Transonic Fans made of composite material <i>Nicola Paletta, Vecchio E, Seume J, Gößling J, Amer M, Friedrichs J, Eggers T, Russo S, Natale N.</i>	Reliable Method of Aerodynamic Analysis using Computational Fluid Dynamics and Scaled Models in the Development Process of a Very Light Airplane <i>Aleksander Olejnik, Adam Dżubifski, Lukasz Kiszkaowiak</i>			Experimental results of cosmic radiation tolerant bolometers based on 2D metasurfaces <i>Patrizia Lamberli, Polina P. Kuzhir, Yuri Svirko</i>	A case study on ultrasonic guided wave inspection of aerospace components – is 'in-situ' feasible? <i>Damira Smagolova, Vyktaras Samailis, Mastan Raja Papanaboina, Elena Jasuniene</i>	
End of the 1st Day of the 10th EASN Virtual Conference									

Time (CET)		Keynote Lecture	Chaired by Prof. M. Guasalfano EASN Honorary Chairman	ROOM 1 (Click to join the Virtual Meeting ROOM)								
9:30	10:00			Space Research and Innovation under Horizon Europe: state of preparation Dr. Rémy Denos - European Commission Policy Officer – Space research, Innovation and start-ups DG Defence Industry and Space (DEFS)								
10:05	10:35			ESRE and the White Paper on Space trends and Technologies shaping next decade Mr. Francesco Ferrigno - European Space Research Establishments (ESRE) Representative of CRA in ESRE								
10:35 - 11:00		Break										
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Session Title				Clean Sky Thematic Projects: where the Bottom-Up meets the Top-Down (PART IV)	Impact Monitoring in Horizon Europe	R&D Research in the Field of Aeronautics & Air Transport: SLOWD Project Session	High Speed Air Vehicles (PART I)	Aerostructural Materials (PART I)	Advanced Manufacturing Technology for Aeronautics (PART I)	Aircraft Design and Propulsion (PART I)		
Session Chair				Dr. Jean-Francois Brouckaert Clean Sky Joint Undertaking	Mr. Volker Krojanski German Aerospace Center (DLR), Germany	Mr. Francesco Gambioli Airbus, UK	Dr. Nicole Viola, Politecnico di Torino, Italy & Dr. Catalin Nae, NCAS - National Institute for Aerospace Research, Romania	Prof. Roberto Pantani University of Salerno, Italy	Dr. Jie Zhao & Prof. Yi Qin University of Strathclyde, UK	Prof. Michael Weigand Vienna University of Technology, Austria		
11:00	11:20			CATANA: Composite Aeroelasticity and Aerodynamics Christoph Brandstetter	Technology Evaluation in Clean Sky 2 – Setup and Ambition Ralf Berghol, Volker Krojanski	SLOWD Project Overview presentation Francesco Gambioli	Dynamic Control for Tailless High Speed Aircraft Configuration Catalin Nae	Understanding the Role of Graphene on the Moisture Absorption in Graphene/polymer Nanocomposites Fazel Almu'dabbesh, Haya Alfaris, Perminder Sangha, Rhys Pullin, Mark Easton	Simulation of the Rolling Process of the GH3536 Thin-walled M-Profiled Cross-section Sealing Ring Zhuyu Xiang, Hongwei Li	Active Turbulence Suppression for Aircraft – SmartWigs A. Gafly		
11:20	11:40			VENUS: Investigation of Distributed Propulsion Noise and its Mitigation through Wind Tunnel Experiments and Numerical Simulations Roberto Camussi, Alessandro Di Marco	The academic view on an Aerospace Impact Evaluator under Horizon Europe Helge Pfeiffer	Sloshing Induced Damping in Vertically Vibrating Systems Joe de Courcy, Lucian Constantin, Brano Titurus, Tom Rendell, Jonathan Cooper	STRATOFLY H2020 MR3: CAD Design Overview Enrico Nicola, N. Viola, D. Ferretto, R. Fusaro	Stress relaxation of thermal stresses developed in the curing cycles of carbon fibres-epoxy laminates Alfonso Maffezzoli, Francesco Nicasio, Francesca Lionetto, Gennaro Scarselli	A study of the forming quality of Ni-based superalloy conical-cylindrical parts under complex strain path by deep-drawing spinning Gangfeng Xiao, Zeyu Ling, Qinxiang Xia, Yilong Zhang	Loss of Lift in Rotorcraft Transmission: Improvement and Simulation A. M. Faruck, M. Weigand, C. Gächter		
11:40	12:00			SilentProp: Experimental and numerical investigations on acoustic propagation and noise abatement for distributed aircraft propulsion Dimitris Chronopoulos	DIR View on System-wide Impact Assessment Olaf Heinze	Experimental study of the damping effects on a SDOF sloshing tank Jon Martinez Carrasco, Leo Miguel González Gutiérrez	Advanced propulsion cycle design and analysis for STRATOFLY MR3 Boyang Saracoglu	Supramolecular chemistry applied to structural materials Elisa Calabrese, Liberata Guadagno, Luigi Veri uccio, Carlo Naddo, Giuseppina Barra, Mariangela Raimondo, Andrea Sorrentin, Wolfgang H. Binder, Philipp Michael Sravenda Rana	Numerical Study on the Forming Rules of 6061 Aluminum Alloy Complex Tubes in Incremental Tube Forming Danni Bai, Pengfei Gao, Yukun Lu, Mei Zhan	Analysis of fuselage skin reinforcements with beam element models in flexible aircraft panels for ditching situations Christian Leon Munoz, Bertrاند Langrand, Dieter Kohrgruber		
12:00	12:20			ACONIT: Actuators for Surge Control in Gas Turbine Antoine Dazin, Pierrick Joseph, Francesco Romano, Quentin Galas, Julien Marty, Gérard Algouy, Marcel Schäbel, Reinhard Niehus	Levers to secure an impact-driven roadmap in Horizon Europe Pierre Arbez	Advances in Reduced Order Modelling for Linear and Nonlinear Sloshing Marco Pizzoli, Francesco Saltari, Franco Mastroradi	STRATOFLY MR3: analysis of operational procedures for a high-speed aircraft Oscar Gori, N. Viola, R. Fusaro	An extensive mechanical test campaign on nanocrystalline materials for aviation and space applications Panagiotis Bazos, Konstantinos Tserpes, Spiros Panhelakios, Nikolaos Michailidis, Konstantinos Katrakalos	Micromechanical Modeling of Deformation and Damage Heterogeneity of TA15 Titanium Alloy with Tri-modal Microstructure Mengyan Fei, Pengfei Gao, Zhenli Lei, Mei Zhan	Towards Energy-Autarchic Unmanned Aerial Systems (UAS): A Bionic Approach on Solar-Electric, Multi-Vehicle Aircraft Platforms for Waterborne Operations Franz-Michael Sander		
12:20	12:40			Towards in-flight aero-engine inlet distortion measurements using seeding-free, non-intrusive flow diagnostic methods Pavlos Zachos	Commission view on Impact Monitoring in Horizon Europe Sebastiano Fumero	Proper Orthogonal Decomposition and Wavelet Analysis of Sloshing Flows Tiziano Pagliaro, Francesco Gambioli, Francesco Saltari, Jonathan Cooper	Virtual Analysis of Hypersonic Combustion Chister Fureby	Comparison between Selective Laser Melting and Conventional Manganese Steel in Corrosion-Fatigue Performance after various surface and heat treatments Nikolaos Michailidis, Apostolos Arvanitidis, Fotis Kazels, Emmanouil Bouzakis, Homero Castaneda	A fast simulation strategy for flow spinning: adaptive octree mesh refinement algorithm based on dual-mesh method Zhuoqi Zhai, Yunda Dong, Mei Zhan, Zhipeng Shi, Xiaoquan Fan	Mechanism design for a VTOL flying wing UAV Dimitrios Mitrakis, Chris Blamir, Pavlos Kaparos, Kyros Yakinthos		
12:40	13:00					Investigating the Impact of Non-Dimensional Fluid Properties on Violent Sloshing by means of High Fidelity Volume of Fluid Simulations M. Wright, A.G. Malan, F. Gambioli			Effect of Rise and Fall Rate on Dwell Fatigue Behavior of Titanium Alloys Pandi Zhao, Sangli Shen, Mei Zhan, Zebang Zheng	Enhancing preliminary aircraft design through operational considerations: a data-driven approach Sébastien de Longueville, Joël Jézégou, Emmanuel Bénard, Yves Gourniat		
13:00	13:20					Prediction of energy dissipation in violent sloshing flows by Smoothed Particle Hydrodynamics Salvatore Marrone, Javier Calderon, Jon Martínez, Matteo Antonino, Andrea Colagrossi			Characteristics of Mechanical Properties of a Near-α Titanium Alloy with Tri-Modal Microstructure Yili Gong, Pengfei Gao, Zhenli Lei, Mei Zhan			
13:00 - 14:00		Break										

Time (CET)		Keynote Lecture	Chaired by Prof. M. Guasalfano EASN BOD member	ROOM 1 (Click to join the Virtual Meeting ROOM)								
14:00	14:30			Innovation Aspects in Design, Manufacturing and Testing of a Small Seaplane as Personal Transportation Vehicle Prof. Ing. Leonardo Lecce - Novotech - Aerospace Advanced Technology Srl CEO & President								
ROOMs						ROOM 1 (Click to join the Virtual Meeting ROOM)	ROOM 2 (Click to join the Virtual Meeting ROOM)	ROOM 3 (Click to join the Virtual Meeting ROOM)	ROOM 4 (Click to join the Virtual Meeting ROOM)	ROOM 5 (Click to join the Virtual Meeting ROOM)	ROOM 6 (Click to join the Virtual Meeting ROOM)	ROOM 7 (Click to join the Virtual Meeting ROOM)
Session Title				Clean Sky building synergies with the regions: Innovation and Technologies created in the European aeronautics regions	LABOR Project Session	R&D Research in the Field of Aeronautics & Air Transport: ENABLEH2 Project Session	High Speed Air Vehicles (PART II)	Aerostructural Materials (PART II)	Advanced Manufacturing Technology for Aeronautics (PART II)	Aircraft Design and Propulsion (PART II)		
Session Chair				Dr. Christos Vasiliakos Clean Sky Joint Undertaking	Prof. Pasquale Chiocchio University of Salerno, Italy	Dr. Vishal Sethi Cranfield University, UK	Dr. Nicole Viola, Politecnico di Torino, Italy & Dr. Catalin Nae, NCAS - National Institute for Aerospace Research, Romania	Prof. Roberto Pantani University of Salerno, Italy	Prof. Zebang Zheng & Prof. Yi Qin Northwestern Polytechnical University, China & University of Strathclyde, UK	Prof. Michael Weigand Vienna University of Technology, Austria		
14:40	15:00			14:30 - 14:35 Introduction by Dr. Christos Vasiliakos 14:35 - 14:50 OSIRIS project overview Adeodato All'amirano Aguilar, Victor Medina Heisterle	Clean Sky 2 - REG IADP Overview and links with AIR ITD Vittorio Ascione, Vito Parrupato, Rossella Valentia	Enabling Cryogenic Hydrogen-Based CO₂-free Air Transport (ENABLEH2) Bobby Sethi	Sustainability Key to Reinventing Commercial Supersonic Flight Andreas Hardeman, Lourdes Maurice	Finite element analysis of shot peening applied to case-hardened Aeronautical gears Asghar Heydari Afarouze, Sara Bagheriardi, Mario Guagliano	Simulation on dynamic recrystallization of magnesium alloy by cellular automaton method coupled with adaptive activation energy and matrix deformation topology Si Bing Wang, Wenchen Xu, He Wu, Ranru Yuan, Xueze Jin, Debin Shan	Conceptual design of a novel Unmanned Ground Effect Vehicle Charalampos Papadopoulos, Dimitrios Mitrakis, Kyros Yakinthos		
15:00	15:20			MIB project: Modelling and control of a Modular Iron Bird to test movable surfaces actuators of aircraft Sergio Cotecchia, Massimiliano Mattei	New concepts for a robotized cell for the assembly and control of composite fuselage panel components Matteo Nisi, D. Massa, A. Bruni, C. Cristalli	Progress in Ultra-Low NO_x Hydrogen Micromix Combustion Research in ENABLEH2 Xiaoxiao Sun, Bobby Sethi, Pierre Gauthier	Climate impact of Hypersonic Transport Vuker Grewe, Emmertig, Johannes, Hauglustaine, Didier, Cohen, Yann	Detection of the diffusion properties of the encapsulated unheated monomer agent in advanced protective coatings: A solid-state NMR study S. Orfanidis, M. Raimondo, L. Guadagno, I. Palazzo, E. Reverchon, A.S. Pappelis, M. Fardis, G. Papavasiliou	FE simulation of isothermal forging for 7075 aluminum alloy dibuffer Chunju Wang, Lei Lei Wang, Bin Guo	Conceptual design of an unmanned aerial vehicle for fast container transport V. Chernousov, A. Krut'ov, E. Pigusov, V. Zamaraev		
15:20	15:40			GRECO project: Manufacturing technology and tooling development for continuous manufacturing preform cutting and compaction with dry fiber composite material Miguel A. Castillo	Collaborative robotized assembly of composite fuselage panels Gaetano Lettera, Ciro Natale	Development of fuel and heat management systems for liquid hydrogen powered aircraft Carlos Xisto, Isak Jonsson, Tomas Grönstedt	Hypersonic Aft-breathing-Propelled Vehicles Marco Marini	Meshfree Methods of Airframe Stress Analysis Nikola Katzukid, Leonid Ffsov	Investigation on Electrically-Assisted Rolling Process of Surface Texture for Drag Reduction Shaoli Xue, Zhenhai Xu, Chunju Wang, Baosheng Liu, Debin Shan and Bin Guo	Multi-Disciplinary Framework for Propeller Blade Design Andreas Kümmel, Christian Breitsamer		
15:40	16:00			MULTIDRILL project: New multi-material drilling conditions Miguel A. Castillo	Robot deployed Laser-Ultrasonic NDT system for large aircraft structures Vicki James, Dave Carswell, J Riso, P. Ian Nicholson, Norbert Huber, Martin Gärtner, Bernhard Reilinger, Edgar Scherleitner, Peter Burgholzer, Norbert Graf, Jon Phipps, Dave Burns, Ciro Incarnato	Control and Assessment of Hydrogen Explosion Hazards on Aircraft and Airports – ENABLEH2 laboratory studies and large scale release consequence modelling Paul Halborn, Claire Benson, James Ingram	Hypersonic and suborbital vehicles integration in air traffic Marc Vales, Marie-Christine Bernier, Christophe Giroudeau	Low-velocity impact response and compression after impact assessment of carbon fibre/epoxy composites containing Diels-Alder reaction mechanism based self-healing agent in tectopus form Aθανάσιος Καράτσας, Anna Geli'ona, Stavros Tsantalis, Vasilis Kostopoulos	On Unsteady Flow Analysis of a Round Spike Blunt-Nose Afterbody in Mach 6 Flow Ashish Vashishtha, Shashank Khurana	Numerical Analysis of Cyclotron Aerodynamic Properties in Hovering State Shawn Cogan, Louis Gagnon		
16:00	16:20			Repair & maintenance by Metal Additive Manufacturing process - CK02 project Alain Tuffine	TOD – Thermoplastics on Doors: Development of full scale innovative composites doors, sumonds and sub-structure for Regional Aircraft Fuselage barrel on-ground demonstrators Sofia Sampethai, Antonio Miraglia, Francesca Feline, Ciro Rocco, Alessandro Ceresa, Umberto Raganato, Miguel Zavala, Bertrand Ripo, Georgios Lapsitis, Jonathan Rise, Xiaofei Cui, Minghui Wu	Evaluating and roadmapping hydrogen propulsion in the ENABLEH2 project Anders Lundblad, Andrew Rolf, Devaiah Nallanda	Integration of high-speed operations into the European ATM network Dragos Tanea	Investigation of different failure modes of a plate under differeing impact conditions S. Kalpis, A. Dofinis, K.-U. Schüröder	Additive Manufacturing – New Potentials for Aviation Imo Ludwig	Climate wind tunnel and icing/deicing research H. Ferschütz		
16:20	16:40			Design challenges in the joint research project RACER Adrian Gaz, Katrin Mayrhofer	SPARE project: Improvement of continuous compression moulding process for the production of thermoplastic composite beams Riccardo Angeli, Federica Dell'Anno, Leonardo Cosma, Umberto Raganato, Alessandra Passaro	Low risk technology proposals for early adaptation of LH2 on board civil aircraft – Implications of hydrogen fuel tank gravimetric efficiency assumptions on overall aircraft design Jon Huele, Devaiah Nallanda, Pericles Piliadis, Bobby Sethi			Development of a composite nose wheel for commercial aircraft Jens-David Wacker, Conchit Contell Azis, Dominik Laveuve, Andreas Büler	Development of a methodology for the mechanical drivetrains within the scope of rotorcraft design Michael Weigand		
16:40	17:00			Innovative manufacturing in the joint research project RACER Catalin Moleau, Katrin Mayrhofer					Robotized Assembly and Inspection of Composite Fuselage Panels: the LABOR project approach Ciro Natale, P. Chiocchio, M. Caterino, C. Cristalli, M. Fera, G. Lettera, M. Nisi	Rotorcraft Drivetrains: Improvement of Traditional Gearboxes, Transmissions for new rotorcraft concepts, Safety of Drivetrains – Approaches of TU Wien Michael Weigand		
17:00	17:20			Innovative processes applied to the fuselage structure developed in RACER project Dorin Barsan, Adrian Gaz						Advanced Materials and Technologies for Compressor Blades of Small Turbopan Engines Dmytro Pavlenko, Yaroslav Dvirnyk, Radoslaw Przysowa		

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Session Title				Contributions to Clean Sky 2 FRC IADPs and SAT	LABOR Project Session - Open Discussion	R&D Research in the Field of Aeronautics & Air Transport: HOMER Project Session	The importance of Critical raw Materials in the aerospace industry, from advanced materials and fabrication to circular economy	Icing of Aircraft Structures	Advanced Manufacturing Technology for Aeronautics (PART III)	Aircraft Design and Propulsion (PART III)
Session Chair				Dr. Marika Belardo CIRA, Italy	Prof. Pasquale Chiocchio University of Salerno, Italy	Prof. Dr. Andreas Schröder German Aerospace Center (DLR), Germany	Dr. Sanlago Cuesta Lopez International Center in Advanced Materials and raw materials of Castilla y León - ICAICMVL, Spain	Prof. Liberata Guadagno University of Salerno, Italy	Dr. Jie Zhao & Prof. Yi Qin University of Strathclyde, UK	Prof. Michael Weigand Vienna University of Technology, Austria
17:00	17:20			On the wing design of NGCTR-ID Belardo M., Diodati G., Beretta J., Paletta N., Giuliani V., Orlando S., Ariola P., Graziano M., Pezzella C., Di Palma L.		HOMER - Holistic optical metrology for aero-elastic research Andreas Schröder, Benjamin Leclair, Bas van Oudenouden, Ludovic Chaffellier, Christian J. Kühler	Critical Raw Materials and the aerospace value chain S. Cuesta-López	Numerical procedure for electro-thermal anti-icing system simulation coupling internal thermal analysis and external multi-physic code A. Carozza, F. Petrosino, G. Mingione	Nanoscale laser micro-structuring of epoxy painting surfaces adhering to an aluminum alloy Wenlong Chang, Xichun Luo, Yi Qin	From FAST to FAST-OAB: An open source framework for rapid Overall Aircraft Design Scott Debecka, Christophe David, Sébastien Defoor, Peter Schmalgruber, Emmanuel Bénard, Valérie Pommier-Budinger
17:20	17:40			Preliminary studies of flight sensing for loads and aerelastic parameters estimation of the NGCTR-ID wing Carlozoo Andrés, Beretta J. Jacopo, Paola Nicola, Adrien Stephane, Belardo Marika, Chiarriello Antonio, Di Palma Luigi	ROUND TABLE DISCUSSION: "Aviation industry: a driver for innovation in manufacturing, assembly and quality inspection"	Non-intrusive determination of the unsteady surface pressure and aerodynamic loads on a pitching airfoil Christoph Meffens, Andrea Sciacchitano, Bas van Oudenouden, Juri Sodja	Recycling of Critical Raw Materials from Hydrogen Chemical Storage Stacks (PENWE), Membrane Electrode Assemblies (MEA) and Electrolysis Anastasia Moschovi, Erini Zagorolu, Katerini Polyzou, Iakovos Yakoumis	Application of different Lagrangian Particle Tracking techniques for water impingement F. Petrosino, D. De Rosa, G. Mingione	Redundancy Optimization in Robotized Assembly of Aerostructures Federico Stortelle, Enrico Ferrentino, Pasquale Chiocchio	The performance and emissions of a microturbine and turbopan powered by alternative fuels Radoslaw Przysowa, Bartosz Gowron, Tomasz Blotnicki, Anna Legowik, Jerzy Merksiz, Remiguz Jasirski
17:40	18:00			Clash analysis of main landing gear door using advanced nonlinear finite element analysis Antonio Chiariello, Salvatore Orlando, Pasquale Vitale, Mauro Linari, Raffaele Longobardi, Luigi Di Palma		Numerical benchmarks for assessment of fluid-structure optical metrology and data assimilation algorithms Benjamin Leclair, Andrea Sciacchitano, Andreas Schröder	Multilayer and High-Entropy Alloy Concepts of Protective Coatings for Critical Raw Materials Problem and Aerospace Industry Bogdan Podolny, Vladimir Buranich, Katerina Smyrnova, João Pedro Araújo, Luis Rebouta, Alexander Pogrebnyak, Vadyslav Rogoz	Film heating for anti-icing applications F. Petrosino, P. Catalano, G. Mingione	Pilot prototype production line for the hot-forming of aluminum alloy sheets with fast contact-cooling and multi-point tooling Song Yang, Jie Zhao, Yankang Tian and Yi Qin	Generative design case study of a CNC machined nose landing gear for an unmanned aerial vehicle Ioannis Zolmitis, Efstratios Giannakis, Georgios Savvidis
18:00	18:20			Optimization of vibration levels of a main landing gear composite door for high-speed rotorcraft Maurizio Arena, Antonio Chiariello, Martino Castaldo, Luigi Di Palma		Addressing the aero-elasticity problem for MAVs Harlene Loeffler, Daniel Diaz, Jean-Christophe Dupré, Pascal Doumain, Jean-Claude Grandtiller, Marco Gigliotti, Frédéric Pons, Laurent David, Ludovic Chaffellier	Ultra-high temperature oxide ceramics for aerospace industry: synthesis, coatings application and impact on energy efficiency Radu R. Pîrlescu, Maria Luisa Grill, Daniele Valerini, Adrian Mihail Motoc, Mihail Botan, Victor Manoliu	Simulations of Two-Phase Flows over Aircraft Surfaces to Determine the Droplet Collection Efficiency Strelts D.Yu, Zhuchkov R.N., Kozelkov A.S., Pogoyan M.A., Galanov N.G.	Numerical and experimental investigation into laser-metal-deposition based additive manufacturing with Inconel 718 powder Yankang Tian, Quansen Zeng, Andreas Reimer, Yi Qin	In-Flight Thrust Measurement and Drag Estimation of an Unmanned Propeller Aircraft Dominique Bergmann, Jan Denzel, Ole Pielke, Stefan Nolter, Andreas Strittmeyer
18:20	18:40			Experimental investigation of damage detection on structures with FSJ junctions Sorrentino Assunta, Chiariello Antonio, Di Palma Luigi, De Fenza Angel		Measurements of deformation, schlieren and forces on an ONTISA oiljet at buffet conditions Alessandro Accorini, Tim Baur, Sven Scharnowski, Johannes Knebusch, Johannes Dillingner, Yves Govers, Jens Nietzsche, Christian J. Kühler	Integration of new aerospace and automotive cost effective materials and their additive manufacturing technologies Sergio Durante	New Aircraft Anti-de-icing Technologies Luigi Veri uccio, Fabiana Faglia, Roberto Pantani, Salvatore Russo, Genaro Iannuzzi, Liberata Guadagno	Aeroelastic optimization of manufacturable low-steered composite wings with cruise shape constraint and gust loads Zhijun Wang, Danli Peeters, Roeland De Breucker	An overview of the new research infrastructure for rotating labyrinth seals at COMOL Bogdan Gherman, Ella Florea, Razvan Carlanescu, Marius Lucan
18:40	19:00			Tailored design assessment for the CFBP wing of the Next Generation TB Rotor supported by virtual allowable test method F. Starace, S. D. Orlando			Computational screening and multiscale modeling for discovery substitution of materials subject to extreme conditions in aviation Roberto Iglesias	Off-Line-Programming and Inline Measurement for Sealing Automation – Ensuring fully automated sealant application in the industrial aircraft production Nihal Bisklagli, Daniel Ludwig, Sascha Quast, Thomas Schwane	Development of a Flight Mechanics Simulation Computer based on a Flexible Aircraft Model for a Regional Aircraft Simone Matsani, Elisa Caspelle, Giorgio Guglieri	
19:00	19:20						Modeling activities in Precision Processing of materials Saurav Goel		The development and trend of materials modelling for creep age forming of aluminum alloys Xi Wang, Yong Li, Baoguo Chen, Zhusheng Shi, Jianguo Lin	

10th EASN Virtual International Conference on
Innovation in Aviation & Space to the Satisfaction of the European Citizens
DAY 3 | 04.09.2020

ROOM 1 (Click to join the Virtual Meeting ROOM)										
9:30	10:00	Keynote Lecture	Chaired by Prof. E. Jostlund EASN BOD member	The future of Aviation: the technology challenges ahead Dr. Marco Pratti Leonardo Aircraft Division VP Advanced Research						
10:05	10:35	Keynote Lecture		PRORA the Italian Programme for Aerospace Research Dr. Marcello Amato CIRA EREA's Head of the Aeronautical Research Group						
10:35	11:00	Break								
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Session Title	ecoDESIGN and Sustainable Productivity			Implementation of Open Science in Aviation		R&D Research in the Field of Aeronautics & Air Transport: AW DRONES Project Session	Systems / Prognostics / Security (PART I)	Small Air Transport (SAT) Technologies (PART I)	Space Technologies	
Session Chair	Mr. Torsten Moll Fraunhofer-Gesellschaft, Germany			Dr. Giola Venturini SAFRAN Group, France		Mr. Damiano Turino Deep Blue, Italy	Prof. Matteo Dalla Vedova Politecnico di Torino, Italy	Dr. Vittorio Di Vito CIRA, Italy	Dr.-Ing. Athanasios Dafnis RWTH Aachen University, Germany	
11:00	11:20	ecoDESIGN and Sustainable Productivity Torsten Moll		Round table discussion & presentation on the implementation of Open Science in Aviation with the participation of: 1. Dr. René Von Schomberg, DGRITD - Opers Science department 2. Ms. Anne Zilles, DLR 3. Ms. Victoria Eva, VP, Policy, ELSEVIER 4. Ms. Valérie Hachette, Head of R&T legal and IPR department, SAFRAN 5. Ms. Afroditi Anagnostopoulou, University of Piraeus		Overview of the AW-Drones project Damiano Turino	Design of a large wind tunnel for risk assessment on-board Oil & Gas platforms Domenico D'Ambrosio, Roberto Marsilio, Giacchino Callero, Gaetano Iuso, Anna Chiara Uggeri, Raffaella Gerboni	Tactical Separation System for Small Air Transport Vehicles: design advancements in the COAST Project V. Di Vito, G. Tortaro, G. Cerasuolo, M. Ferrucci	Drag Control by Hydrogen Injection in Shocked Stagnation Zone of Blunt Nose Ashish Vashishtha, Dean Callaghan, Cathal Nolan	
11:20	11:40	Geometry Model and Approach for Future Blisk LCA Kilian Fricke, Thomas Bergs				Performance-Based Regulation: the role of industrial standards and the AW-Drones meta-standard Filippo Tomasello, Marco Ducci	Direct method of flexibility and rigidity using Mathematic software Odhise Koca, Anis Sulejmani, Parid Alim Hilal	Advanced Weather Awareness System for Small Air Transport Vehicles: design advancements in the COAST Project M. Montesarchio, A. Zollo, E. Bucchignani, M. Ferrucci	High Mach Number Drag Analysis of a Modern Lightweight Launch Vehicle Ainslie French, Antonio Schettino, Luca Romano	
11:40	12:00	Validation of the simulation tool for environmentally friendly aircraft cargo fire protection system Arnab Pathak, Victor Norrefeldt, Marie Pschirer		Development of Smart Eco-friendly anticontamination technologies for laminar wings Mireille Poelmans, M.E. Druart, T. Sénéchal, J. Palenzuela, G. Glabeke, J. van Beeck, D. Ghyssels, F. Bougard, S. Verschaeve, J. Bico, B. Abou, A. Lechante, B. Martinet, R. Watiez, A. Laurent, M. Farouz-Fouquet	Collecting and structuring drone-related global standards Sebastian Cain, Joost Vreeken	Integration of rule-based 'Expert Systems' on RPAS capable of Specific Category Operations within the U-space: an original mitigation strategy for operational safety risks Federica Bonfante, Paola Maggiore, Francesco Grimaccia, Edoardo Filippone, Matteo D. L. Dalla Vedova	Jung's theorem application in en-route hazards description Piotr Grzybowski	Advanced Design of High Entropy Alloys Based Materials for Space Propulsion (ATLAS), a new project for space propulsion Mario Guagliano		
12:00	12:20	Effect of increased recirculation rate on the humidity and CO2 level in the cabin Victor Norrefeldt, Florian Mayer, Britta Herbig, Pawel Wargocki, Risa Strömlein, Ivana Ivančič, Lei Fang			Assessing drone standards against regulatory requirements Matteo Natale	Optical fibers applied to aerospace systems prognostics: design and development of new FBG-based vibration sensors. Matteo D.L. Dalla Vedova, Pier Carlo Berri, Paolo Maggiore, Gaetano Quattrocchi	Enabling technologies for single pilot operations in Small Air Transport Vehicles in the COAST Project V. Di Vito, J. Beran, T. Kabir, P. Grzybowski, T. Rogalski, P. Maslowski, M. Montesarchio	HERA Mission LIDAR Allimeter implementation Nicole G. Dias, Beltran N. Arribas, Paulo Gordo, Bruno Couto, Tiago Sousa, João Marinho, Rui Melicio, António Amorim		
12:20	12:40	Manufacturing the next generation of aircraft seats: healthier, lighter, cost-effective and recyclable Rudolf Emmerich, Adrian Ortego Navilla, Felix Behnisch, Sergej Iljnzser, Ruben Barriento		The AW-Drones Open Repository Ilias Trochidis	Diagnostics of Electro-Mechanical Actuators Based Upon the Back-EMF Reconstruction Pier Carlo Berri, Matteo D.L. Dalla Vedova, Paolo Maggiore, Gaetano Quattrocchi	A Concept for an Integrated Mission Management System for Small Air Transport Vehicles in the COAST Project V. Di Vito, P. Grzybowski, P. Maslowski				
12:40	13:00			U-Space regulatory framework and the related standards Hans Schrauwen		Compact Computing Platform for Future General Aviation P. Zaykov, J. Beran, P. Axman				
13:00	14:00	Break								
ROOM 1 (Click to join the Virtual Meeting ROOM)										
14:00	14:30	Keynote Lecture	Chaired by Dr. H. Pfeifer EASN BOD member	Horizon 2020 Collaborative Aviation Research - an overview of results and impact Dr. Marcel Rammerts Head of Unit - Transport Research, Innovation and Networks Executive Agency (INEA)						
ROOMs					ROOM 1 (Click to join the Virtual Meeting ROOM)	ROOM 2 (Click to join the Virtual Meeting ROOM)	ROOM 3 (Click to join the Virtual Meeting ROOM)	ROOM 4 (Click to join the Virtual Meeting ROOM)	ROOM 5 (Click to join the Virtual Meeting ROOM)	ROOM 6 (Click to join the Virtual Meeting ROOM)
Session Title	ERECA TRIG (Technology and Research Infrastructure Group) Group on Infrastructures			OSCAR Project Session		R&D Research in the Field of Aeronautics & Air Transport: NHYTE Project Session	Systems / Prognostics / Security (PART II)	Small Air Transport (SAT) Technologies (PART II)	Digital solutions for future aircraft developments (PART I)	
Session Chair	Mr. Jose Vicente Garcia Calatayud National Institute for Aerospace Technology (INTA), Spain			Mr. Gerhard Pauly Fraunhofer IFAM, Germany		Dr. Marco Barile Novotech Aerospace Advanced Technology, Italy	Prof. Matteo Dalla Vedova Politecnico di Torino, Italy	Dr. Vittorio Di Vito CIRA, Italy	Mr. Andreas Koetter ALTRAN, Germany	
14:40	15:00	ERECA TRIG (Technology and Research Infrastructure Group) Adriano Coronel, Jose Garcia		Open Science in Aeronautics Research - Why? How? Gerhard Pauly	Validation of a novel thermoplastic material concept for the production of primary aerosturctures, based on a continuous and highly automated OoA fabrication process Marco Barile, Leonardo Lecce, Giuseppe Barile	High gear ratio mechanical transmissions for actuators: Simplified models for efficiency under opposing and aiding loads. Pier Carlo Berri, Matteo D.L. Dalla Vedova, Paolo Maggiore, Andrea Manuele Bertello	Evaluation of the production results of selected technologies based on cabin part and engine nacelle in the SAT-AM (Clean Sky 2) project P. Gala, D. Ullm, J. Dudziak, A. Gawlik	SafeUnChain - Security and Traceability in civil production and value networks through Blockchain Token economy Gaston Pukies		
15:00	15:20			Open Science in European research: voices and perceptions from the aviation & air transport community Martin Spieck	A holistic design index applied for assessing the suitability of a modified autoclave process to produce a flat skin panel made from a novel hybrid thermoplastic material Ch.V.Katsipopoulos, Sp.G.Pantelakis	A new simplified fluid dynamic model for digital twins of electrohydraulic servovalves Matteo D.L. Dalla Vedova, Pier Carlo Berri	The General Aviation Aircraft Path Planning Method at FRA Airspace Using Multi-Dimension Weights on Graph Edges Andrzej Majka, Jowita Pawluczcy	TOKEN ECONOMY - The driver for new business models and increased transparency and trust Gaston Pukies		
15:20	15:40			Code of Conduct in Open Science - What is it and why is it good? Panagiota Polydoropoulou	Virtual testing activities for the development of a hybrid thermoplastic composite material for the Nhyte project Rosario Dotoli, Antonio Gerardi, Panagiota Polydoropoulou, Alfonso Carpio Rovira	Observation glide LED lights pilot a visual orientation Yulia Kvach	Small Transport Aircraft Trajectory Management in Emergency Situation Andrzej Majka, Jowita Pawluczcy	DIBICHAIN - Blockchain as the backbone of Circular Economy Vincent Ackenhausen		
15:40	16:00	RINGO Project: final results Christophe Hermans		Past and future: Some ideas how to tap the potential of Open Science for AAT research Martin Spieck	Induction welding process set up of hybrid thermoplastic composite materials for aircraft structures Francesca Felline, Leonardo Cosma, Giuseppe Buccofero, Silvio Pappada, Rosario Dotoli	Learning how to escape the unthinkable with virtual reality: the case of pilots' training on emergency procedures Ioanna K. Lekeu, Dimitrios G. Stamatielos, Panelis Raptis	Operational concept for integrating RPAS into terminal airspace Javier Pérez-Castán, Fernando Gómez Comendador, Rosa María Arnaldo Valdes, Alvaro Rodríguez-Sanz and Jaime Aznar Olmos	AUTOKAB - Reinvented digital supply chains with DLT technologies Vincent Ackenhausen		
16:00	16:20	Technology Infrastructures and Research. A success story" Victor Archilla		Open Discussion with Audience "Open Science! How dare you to leave that benefit unused?"	On the numerical prediction of heating law for PEI-CF/PEEK hybrid thermoplastic composites in a laser-assisted automated fibre placement Omar Baho, Gilles Ausias, Yves Grohens, Marco Barile, Leonardo Lecce, Julien Férec	Increased Requirements and Corresponding Power Demand of All-electric Environmental Control System of Large Commercial Aircraft Dragan Kozulovic			VIABLE - Augmented & Virtual Reality for pre-visualization of next generation systems Gianmarco Scalabrini	
16:20	16:40				Manufacturing process parameters tuning for New Hybrid Thermoplastic Material Giuseppe Totaro, Marco Raffone, Antonietta Mormone, Francesca Felline, Salvatore Russo					
16:40	17:00				A new approach for the simulation of Induction Welding Process of thermoplastic composite materials for aircraft structures Panagiota Polydoropoulou, George Lampeas, Spiros Pantelakis, Rosario Dotoli, Francesca Felline and Leonardo Cosma					
ROOMs				ROOM 1 (Click to join the Virtual Meeting ROOM)	ROOM 2 (Click to join the Virtual Meeting ROOM)	ROOM 3 (Click to join the Virtual Meeting ROOM)	ROOM 4 (Click to join the Virtual Meeting ROOM)	ROOM 5 (Click to join the Virtual Meeting ROOM)	ROOM 6 (Click to join the Virtual Meeting ROOM)	ROOM 7 (Click to join the Virtual Meeting ROOM)
Session Title	Aircraft Testing			PARE Project Session		Major outcomes of the SMS project regarding innovation in disruptive wings configurations enabling high performances and greening	Systems / Prognostics / Security (PART III)	Advanced Composites for Aerospace Applications: Modeling Testing - Validation Adhesion Science & Technology	Digital solutions for future aircraft developments (PART II)	
Session Chair	Prof. Ivo Jebacek Brno University of Technology, Czech Republic			Prof. Luiz Manuel Braga da Costa Campos Instituto Superior Técnico, Portugal		Dr. Marianna Braza CNRS, France	Prof. Matteo Dalla Vedova Politecnico di Torino, Italy	Prof. Konstantinos Tserpes University of Patras, Greece	Mr. Andreas Koetter ALTRAN, Germany	
17:00	17:20	Determination of 1st Buckling and Collapse Loads for Integrally Stiffened Panels by Artificial Neural Network and Design of Experiment Methodology Seiuc Guzel, Ercan Gurses		The PARE project and 58 recommendations for aeronautics research in Horizon Europe Luís Campos, Pedro Serrão, João Oliveira	Large-Scale high-lift Morphing Wing of A320 type, based on Electro-Mechanical Actuators and Shape Memory Alloys A. Giraud, B. Nogaredo, Y. Bmegaphtche-Tekoa, M. Carvalho, D. Haribey, C. Nadal, J.F. Rouchon, M. Braza	The effects of using Virtual Reality technology in a pilot learning training application Miroslaw Mazurek, Pawel Dymora, Bartosz Kowal, Romana Sliwa	The effect of hygrothermal ageing on the bulk mechanical properties and lap-shear strength of the bio-based epichlorohydrin/cardanol adhesive Vasilios Tzatzadakís, Konstantinos Tserpes	Using Naive Bayes Machine Learning approach to evaluate performance on spare parts request for aircraft engines A. Caricato, A. Capodici, A. P. Carlucci, A. Ficarella, L. Mainetti, C. Vergallo		
17:20	17:40	Development of a prototype test system for certification of curved fuselage panels through experimental validation M. Jiménez, R. Cabrera, J.L. Armario, E. Graciani, A. Estefani, K. Muñoz, F. Paris, E. García		PARE analysis of intermediate 2020 goals and of further steps to ACARE Flightpath-2050 goals in perfecting environment and energy supply Oleksandr Zaporozhets, Volodymyr Isaichenko, Kateryna Syniyo	Aerodynamic Performance of an A320 type morphing wing in the transonic regime P. Flaszynski, A. Sewaba, P. Daerfler, Jean-Baptiste To, N. Simirotis, A. Marouf, J.F. Rouchon, M. Braza	Mini-Multi Interface Box Simulator (MMIBS) J.G. Doblado Alberto Garcia, Antonio Leopoldo Rodriguez, Maria Angeles Martin Prats, Antonio Barea Mestre, Daniel Crespo, Imaculada Soldado, Guillermo Barrera	Numerical simulation of laser shock-induced composite delamination and adhesive debonding Kosmas Papadopoulos, Konstantinos Tserpes, Ioannis Floros	Building Digital Transformation to improve NGCTR design and simulation Michele Sesano, Alessandro Bardelli		
17:40	18:00	Numerical Methodology for Aerostructures Hull Impact Damage Prediction D. Ivančević, I. Badurina Žakari, I. Smojver		Alternative fuels for aviation: possible alternatives and practical prospects of biofuels Renata Adams, Patrícia Lam bert, Vincenzo Tucci, Liberata Guadagno, Rosa Amato Valadés, Oksandr Zaporozhets, Pawel Wacnirk, Serhat Bumaglug	Electroactive morphing effects in the aerodynamic performance of a cambered A320 wing by means of time-resolved PIV M. Carvalho, C. Nadal, D. Haribey, J.F. Rouchon, M. Braza	Model-based strategy and surrogate function for health condition assessment of actuation devices. Pier Carlo Berri, Matteo D.L. Dalla Vedova, Paolo Maggiore, Gaetano Quattrocchi	Comparison of lightning strike damage in bolted and bonded CFRP joints using a coupled electrothermal model Alexandros Sofianos, Konstantinos Tserpes	Capabilities of the Regional Cabin Demonstrator as digital twin for a future test mock-up Andreas Lindner, Victor Norrefeldt		
18:00	18:20	Identification of resonant vibrations of the miniature unmanned airplane with contact and non-contact measuring techniques Olejnuk Aleksander, Rogólski Robert, Szcześniak Michał		Empowering talent: Women in Aviation Qualia Costa, Joana Soares, Patrícia Lam bert, Liberata Guadagno, Daniela Geraldies, Filipa Manala	High-Fidelity Numerical simulation of a morphing A320 wing in subsonic speeds and sensitively evaluation N. Simirotis, A. Marouf, K. Dzakakis, G. Tzabiras, F. Kramer, F. Thiele, M. Braza	A Team Allocation Decision for Aircraft Fleet Maintenance Duarte P. Pereira, Rui Melicio, Victor M.F. Mendes	Buckling analysis of large-scale stiffened composite structures by macromodelling approach D. G. Stamatielos, G. N. Labeas			
18:20	18:40			The role of Climate Change Levy schemes in aviation decarbonization by 20250 Valdes Comendador	Aerodynamic performance increase of a morphing A320 wing with high-lift flap by means of Hi-Fi CFD approaches A. Marouf, N. Simirotis, J.B. Tô, Y. Bmegaphtche, M. Braza		Optimization and strength tests of compressed composite tube as a main element of mechanical flight control system for small aircraft Wojciech Grendysa			
18:40	19:00			Electrification of aviation: propulsion on-board and ground systems Juergen Garcke, Martin Schmuck, Stefan Koller	Multi-point sensing by dynamic pressure measurements through Bragg grating applied in the SMS project A. Kilouli, B. Paris, V. Lamour, Y. megaphtche, A. Marouf, M. Carvalho, M. Braza		Finite Element Analysis of Composite Matrix Material with Micro-damage Healing Ability I. Smojver, D. Ivančević, D. Buzetić			
19:00	19:20						Conceptual design and parametric structural modeling of a FWA/V biomimetic flapping wing Salaf Bin Rayhan			