

8th EASN - CEAS International Workshop on Manufacturing for Growth & Innovation

Final Programme

Rooms	1	2	3	4
Time	Day 2 Wednesday, September 5th, 2018			
8:30 - 18:00	Registration			
9:00 - 9:30	"Digital Design & Manufacturing – Enabler for production ramp up" Key-Note lecture speech by Mr. Tom Williams AIRBUS			
9:35 - 10:05	"Contribution to progress in Manufacturing: Clean Sky achievements" Key-Note lecture speech by Mr. Giuseppe Pagnano Clean Sky JU			
10:05 - 10:40	Coffee Break			
Session 10:40 - 12:40	Sr Charles Wilson building, Lecture Theatre	Gilmorehill Centre (G12), Room 217(A)	Gilmorehill Centre (G12), Room 217(B)	James Watt South building Room 526
Session Title	CLEAN SKY projects	ACASIAS project	Structural Aspects in Aircraft Design	MMTECH project
Session Chair(s)	Jean Francois Brouckaert <i>(Clean Sky JU)</i>	Harmen Schippers <i>(LR)</i>	Alexander Shanygin <i>(BAIG)</i>	Yi Qin <i>(University of Strathclyde)</i>
10:40 - 11:00	Clean Sky 2 Thematic Topics <i>Jean Francois Brouckaert</i>	ACASIAS Overview <i>J. Verpoorte, H. Schippers, M. Mares</i>	Methodology of taking into account manufacturing constraints at designing composite airframes <i>Shanygin A.</i>	MMTECH Project Overview <i>Rosemary Gault</i>
11:00 - 11:20	On-line monitoring of blind fastener installation process <i>Fernando Veiga, Mariluz Penabaz, Alberto Diez-Olivan, Luis DelReal</i>	Smart fuselage panel with structurally integrated Ku-band satcom antenna array <i>J. Verpoorte, P. Nikus, H. Schippers, X. Martinez, F. Chero</i>	New approach to complex design of high-loaded composite panels <i>Chernov A., Forini D., Shanygin A.</i>	Predicting the optimal manufacturing parameters to manufacture titanium aluminium components using laser engineering net shape <i>Jinyi Lee, Daniel Balint, Guozhen Jing, Yi Qin</i>
11:20 - 11:40	Framework for the Simulation of an Aircraft Final Assembly Line <i>Diego Barro, Kiara Ottogalli, Daniel Rosaque, Alier Amundrain</i>	Smart Acoustic Lining Panel <i>Stephan Algenmissen</i>	Method of strength analysis of airframes based on combine virtual & real experimental testing procedures <i>Ichenkov M., Mirgorodsky Yu., Chernov A., Shanygin A.</i>	Self-adaptive process control for difficult-to-cut material machining <i>Alexander Iglesias, Jérôme Loch, Daniele Panarese, Jakin Munoz</i>
11:40 - 12:00	H2020 CS2 EURECA project: control architecture design for a multi-robot framework assisting operators in aerospace industry <i>Loris Rovetto, Nicola Castagna, Stefano Ghidoni, Paolo Franceschi, Nicolò Boscolo, Enrico Pagello, Nicola Pedrocchi</i>	Homogenization procedure for the structural design of smart fuselage panels <i>Xavier Martinez, Ferrn Otero, Francisco Turon</i>	Manufacturing aspects of creation of low curvature panels for advanced civil aircrafts <i>Dubovskov E., Forini D., Kondakov I., Kruchkov E., Mareskin I.</i>	On the modelling of powder flow, material addition and thermal behaviours in LENS process <i>Guozhen Jing, Yi Qin, Yankang Tian, Jinyi Lee, Daniel Balint</i>
12:00 - 12:20	Design challenge of a new monolithic concept for the Main Landing Gear Bay of a large passenger Aircraft <i>Pfehrantonio Cereza, Paolo Iaccarino, Massimo Viscardi</i>	Aerodynamic and structural design of winglet with Integrated VHF antenna <i>Petr Vichola, Steeger, S. Martinez, M. Svetlik, M. Roznicak Z.</i>	fatigue behavior of electron beam welds of high-strength Al-Zn-Mg-Cu alloy, improved by HFW treatment <i>Sviatoslav Molnarich, Ilya Kochkov, Volodymyr Hreslenikov</i>	Cutting force prediction when milling 48-2-2 gamma titanium aluminium <i>Pedro J. Arraola, Imanol Lasagui, Pabli-K. Arizmendi, S. Ehsan Loeghe K., Abbas Hussain, Xavier Lacarazo, Ali Akgun</i>
12:20 - 12:40	Feasibility investigation of a smart Thermo-Acoustic Configuration for general aviation aircrafts <i>Massimo Viscardi, Maurizio Arena, Valerio Porpora, Giuliana Di Paolo, Edoardo Aubry</i>	Application of flexible substrates in ACASIAS innovations <i>Victor Lunguho</i>	A two-level Non-Intuitive Coupling Method for Fatigue Analysis <i>Yanjie Liu, Qian Sun</i>	12:20 - 12:40 6/6 session Visita al Museo 12:40-13:00 AMOS Project Overview <i>Lidiaea Woy</i>
12:40 - 14:00	Lunch Break			
14:00 - 14:30	"Shaping the future of Aircraft Manufacture" Key-Note lecture speech by Mr. Andrew Schofield BAE Systems			
Session 14:40 - 16:00	Sr Charles Wilson building, Lecture Theatre	Gilmorehill Centre (G12), Room 217(A)	Gilmorehill Centre (G12), Room 217(B)	James Watt South building Room 526
Session Title	Innovative Materials and Processes for Improving manufacturing - PART II	Driving forward Innovation in advanced manufacturing - PART II	RINGO Workshop I "Aviation Research Infrastructure Needs in Europe - Production and Mechanics"	Disruptive / Integrated design concepts
Session Chair(s)	Spiros Panelotakis <i>(University of Patras)</i>	Konstantinos Kontis <i>(University of Glasgow)</i>	Jelmer Reijlma <i>(TU Delft)</i>	Andreas Strohmayr <i>(University of Stuttgart)</i>
14:40 - 15:00	Trade-off study of a variation core determine wing assembly against a traditional assembly strategy <i>K.C. Bacharoudis, D. J. Bakker, A. A. Popov, S. M. Ritchie</i>	14:40 - 15:05 Advanced structures and materials <i>Sean Black</i>	RINGO Workshop I "Aviation Research Infrastructure Needs in Europe - Production and Mechanics"	PANDORA – A python based framework for modelling and structural sizing of transport aircraft <i>M. Pelsch, D. Königgruber, J. Heusch</i>
15:00 - 15:20	Influence of ballistic isothermal processing on microstructural and mechanical characteristics of Al-TiBp steel <i>Alexis Kermandik</i>	15:05 - 15:30 An Overview of the Scottish Space Leadership Council and the Scottish Commercial Space Sector <i>John Innes</i>	Discussion Panel with the participation of the RINGO project partners and invited international experts on production and mechanics	Preliminary Sizing of a Medium Range Blended Wing-Body Using a Multifunctional Design Analysis Approach <i>Alessandro Spagnola, Peter Schmalgruber, Emmanuel Benard, Nathalie Baroli, Joseph Mortier</i>
15:20 - 15:40	Failure Analysis of the Restraint System of the Directional Rudder of an M880 Aircraft <i>Juan Coronado, Karina Mendez, Manuel Martinez</i>	15:30 - 15:55 UK Aerospace: Flying High <i>Sameer Savani</i>	Discussion Panel with the participation of the RINGO project partners and invited international experts on production and mechanics	Integrated collaboration capabilities for competitive aircraft design <i>Wim Lammen, Erik Barbenberg, Nikita Naskov, Pier-Davide Clamps, Erwin Moerland</i>
15:40 - 16:00	Tailoring carbon fiber/matrix interface towards smart composites: New perspectives and tools <i>D.A. Dragotiannis, S. Charalidis</i>	15:55 - 16:15 An overview of the capabilities of the James Watt Nanofabrication Centre <i>Iain Thayne</i>	Discussion Panel with the participation of the RINGO project partners and invited international experts on production and mechanics	Challenges on manufacturing process of high performance-low cost composite structures for Light Sport Aircraft <i>Mauricio Torres, Saul Ledesma, Saul Piedra, Miguel A. Jimenez, Carlos Escalante, Aaron Burgos, Miguel A. Viegara, Manuel Bolom, Victor Gomez, Humberto Montano, Edgar Martinez, Rodrigo Perez, Giovanni Angelucci</i>
16:00 - 16:30	Coffee Break			
Session 16:30 - 18:10	Sr Charles Wilson building, Lecture Theatre	Gilmorehill Centre (G12), Room 217(A)	Gilmorehill Centre (G12), Room 217(B)	James Watt South building Room 526
Session Title	IBOSS project	SARAH project	RINGO Workshop I "Aviation Research Infrastructure Needs in Europe - Production and Mechanics"	Systems / Prognostics / Safety
Session Chair(s)	Thanasis Dafnis <i>(RWTH Aachen)</i>	Stephan Adden <i>(BK Innovation)</i>	Jelmer Reijlma <i>(TU Delft)</i>	Matteo D. L. Dalla Vedova <i>(Politecnico di Torino)</i>
16:30 - 16:50	IBOSS – Enabling OOS with a Full Modular Satellite Architecture <i>Thomas A. Schervan, Philip Richter, Christopher Zeis, Alfaniasis Dafnis, Kai-Uwe Schröder</i>	Increased Safety & Robust Certification for ditching of Aircrafts & Helicopters (SARAH) - Overview Presentation <i>Stephan Adden</i>	RINGO Workshop I "Aviation Research Infrastructure Needs in Europe - Production and Mechanics"	A Simplified Monitor Model For Ema Prognostics <i>Dalla Vedova Matteo D. L., Beni Pier Carlo Maggore Paolo</i>
16:50 - 17:10	Assembly strategy and testing of a structural thermal model of a modular satellite <i>Jensik Zimmermann, Philip Richter, Arno Härmig, Thomas Schervan, Kai Uwe Schröder</i>	A fully-nonlinear potential flow model for aircraft ditching applications <i>Alessandro Del Buono, Alessandro Iannelli</i>	RINGO Workshop I "Aviation Research Infrastructure Needs in Europe - Production and Mechanics"	New prognostic neural method by discrete wavelet transforms for electro-mechanical flight controls affected by progressive faults <i>Dalla Vedova Matteo D. L., Lamparelli Nicola, Maggore Paolo</i>
17:10 - 17:30	Qualification Testing of a Multifunctional Interface for Modular Satellites <i>Christopher Zeis, Martin Kartmann, Thomas Schervan, Alfaniasis Dafnis, Kai Uwe Schröder</i>	Effects of the fuselage curvatures on the hydrodynamics of aircraft ditching <i>Alessandro Iannelli</i>	Discussion Panel with the participation of the RINGO project partners and invited international experts on production and mechanics	SATS - Small aircraft commercial operation safety – distributed probability model <i>Barbara Dastgeer</i>
17:30 - 17:50	Interplanetary supply chain network for space exploration: study of a modeling framework <i>Giovanni Giardino</i>	Experimental design and simulation of helicopter ditching <i>B. Boucaeste, G. Oger, A. Vergeaud, Y. Jus, S. Halbout</i>	Discussion Panel with the participation of the RINGO project partners and invited international experts on production and mechanics	Schedule Recovery and Overnight stay in Partially Feasible Solution Space for Integrated Aircraft Scheduling Problem <i>Wojciech George Miksa</i>
17:50 - 18:10	Multifunctional and lightweight load-bearing composite structures for satellites <i>M. Schubert, S. Perello, A. Dafnis, H. Atzpodt, D. Mayer</i>	17:50 - 18:10 Simulation of water impact of unconventional configurations in the frame of the project SARAH <i>Stephan Adden, Jensik Seiler</i> 18:10 - 18:30 Challenges of fully-coupled high-fidelity ditching simulations <i>Maximilian Müller, Malte Woldt, Matthias Haupt, Peter Horst</i>	Discussion Panel with the participation of the RINGO project partners and invited international experts on production and mechanics	Research on Sonar Buoy Arraying for Fixed Wing Aircraft <i>Fan Zhenkai</i>
17:00 - 18:30	GA EASN Association - Room 530 (James Watt South building)			
20:00 -	Conference Dinner - Hilton Glasgow Grosvenor			