PROGRAM - READ & EWADE 2018

6. 11. 2018 TUESDAY

17:00	19:00	REGISTRATION
19:00	21:00	Welcome drink - Faculty of Mechanical Engineering

7. 11. 2018 WEDNESDAY

8:00 9:00 REGISTRATION

	neof management										
			Neo-baroque hall		Conference room A		Conference room B				
		Session	Authors/ Title	Session	Authors/ Title	Session	Authors/ Title				
9:00	9:20	-	Introduction and welcome speech	-	-	-	-				
		Plenary	Milan Šlapák								
9:20	10:20	Lecture	GE Aviation Czech	-	-	-	-				
			Taking off with 3D print								
10:20	10:20 10:40 Coffee break										
		Session I-A	Student session : Aerodynamic and	Session I-B	Aircraft Design	Session I-C	Aircraft Systems and Security				
		Chairman:	Flight Mechnics Tomasz Goetzendendorf-Grabowski	Chairman	Jaroslav Juračka	Chairman:	Jiří Hlinka				
		Chairman:	Tomasz Goetzendendori-Grabowski	Chairman:	Jafoslav Juracka	Chairman:					
			Pratik Meghani		Agnieszka Kwiek		Luboš Janhuba, Rostislav Koštial and Jiří Hlinka				
10:40	11:00	AERO-S	A 2D Aerodynamic Study on Morphing	DESIGN	Conceptual Design of an Aircraft for Mars	SYS	Integrated Method utilizing Graph Theory				
			in the NACA 2412 Airfoil		Mission		and Fuzzy Logic for Safety and Reliability				
							Assessment of Airborne Systems				
			Katarzyna Pobikrowska and Tomasz				Sebastian Topczewski, Antoni				
		AERO-S	Goetzendorf-Grabowski	DESIGN	Petr Augustín	sys	Kopyt, Przemysław Bibik and Marcin Żugaj				
11:00	11:20										
			Stability Analysis of the Experimental		Simulation of Fatigue Crack Propagation		Development of an Automatic System for Helicopter Autopilot Performance				
			Airplane Powered by a Pulsejet Engine		in the Wing Main Spar Flange		Evaluation				
			Jiří Matějů		Jakub Šedek		Karel Třetina				
			Simple Universal Nonlinear								
11:20	11:40	AERO-S	Longitudinal Flight Simulation with	DESIGN	Numerical Analysis of Magna-Lok Rivet	SYS	Diagnostic Parameters Determination of				
			avoiding of Static and Dynamic		Joint and the Technique for Its Stiffness- Equivalent FE Substitution		Aircraft Hydraulic System				
			Derivatives		*						
11:40	11:50				Break						
1							Antoni Kopyt, Przemysław				
1			Ugyen Wangchuk		Miroslav Červenka and Rostislav Koštial		Bibik and Grzegorz Świętoń				
4,,	42			pre:							
11:50	12:10	AERO-S	Finding the Optimum Active Laminar	DESIGN		SYS	An Implementation and Verification the				
I			Flow Control Design Using Continuous		Layout Optimisation for Active Structure		Objective Assessment Tool for Pilots'				
I			Suction for Airbus A380 Wings		Health Monitoring		Performance Measurement				
			Jafar Masri		Wojciech Grendysa		Vladimír Oplustil				
12:10	12:30	AERO-S	A Review of the Analytical Methods	DESIGN	Multidisciplinary Wing Design of a Light, Long Endurance Unmanned Aerial	SYS	Advanced Technologies and				
			used for Seaplanes Performance Prediction		Vehicle		Methodologies for Engine Control Design				
			Yanina Berdnik and Alexey Beskopylnyy		Venicle						
			The Approximation Method in the								
12:30	12:50	AERO-S	Problem on a Flow of Viscous Fluid								
			Around a Thin Plate								
12:50	13:50				Lunch						
			Zdobysław Goraj								
			Politechnika Warszawska								
		Plenary									
13:50	14:20	Lecture	Stress, Strain and Displacement	-	-	-	-				
		zcetarc	Analysis of Geodetic and Conventional								
			Fuselage Structure for Future Passenger Aircraft								
			AllClaft								
					Student session: Aircraft Design						
		Session II-A	Aerodynamic and Flight Mechanics	Session II-B							
					Materials and Technology in Aeronautics						
-		Chairman:	Robert Popela	Chairman:	Ivo Jebáček						
					Viktor Karabut, Vitaly Dudnik and Ilya						
1					Samsonov						
14:30	14:50			DESIGN-S							
1					Preliminary Optimization of Composite						
I					Blades for "Shmel" Light Helicopter						
			Marco Evangolos Pieneelini 11h-14								
I			Marco Evangelos Biancolini, Ubaldo Cella, Corrado Groth and Emiliano Costa		František Löffelmann and Jan Šplíchal						
	45			DEC							
14:50	15:10	AERO	Fast High Fidelity CFD/CSM Fluid	DESIGN-S	Design Study of the Heat Switch Base						
			Structure Interaction Using RBF Mesh		Plate with Help of Topology						
I			Morphing and Modal Superposition		Optimization						
			Method Marcin Figat		Peter Deak and Michał Kowalik						
I											
15:10	15:30	AERO	The Aerodynamic Design of the Aircraft	DESIGN-S	Composite Aircraft Joint Experimental						
			in Tandem Wing Configuration		Testing with Digital Image Correlation						
15:30	16:00				Coffee break						
1			Robert Kulhánek		Igor Skawiński and Tomasz Goetzendorf-						
I					Grabowski						
16:00	16:20	AERO	Identification of a Degradation of	MAT-S							
I			Aerodynamic Characteristic of a		FDM 3D Printing Method Utility						
I			Paraglider due to its Flexibility from		Assessment in Small RC Aircraft Design						
			Flight test								
I			Jacek Mieloszyk and Andrzej Tarnowski		Matteo Pontecorvo						
16:20	16:40	AERO	Improvements in Conceptual Electric	MAT-S	Design of Manufacturing Simulations of a						
1			Aircraft Design		Flatplate Pulstaing Heat Pipe						
					Nina Malalan and Pavel Zikmund						
I											
1					Haptic Aircraft-pilot Interaction Device						
16:40	17:00			SYS-S	for Spatial and Movement Guidance: a Research of the Encoding Possibilities of						
I					the Distance Information with						
I					Vibrotactile Feedback						
19:00	23:00				Social event- Rectorate atrium						

PROGRAM - READ & EWADE 2018

8. 11. 2018 THURSDAY

9:00 9:30 REGISTRATION

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		Section	Neo-baroque hall Authors/ Title	Section	Conference room A Authors/ Title	Conference room B Section Authors/ Title			
			Authors/ Title Štefan Klein	Section	Authors/ Title	Section Authors/ little			
9:00	10:00	Plenary Lecture	AirCar	-	-				
10:00	10:30		Coffee br	eak					
10.00	10.50			Cuk	Student session: Aircraft Systems and				
		Session III-A	Aircraft Design	Session III-B	Security				
			Materials and Technology in Aeronautics		Aeronautical Transport				
ļ.,		Chairman:	Zdobysław Goraj	Chairman:	Allan Nõmmik				
			Tomáš Katrňák, Jaroslav Juračka and Ivo Jebáček		Jakub Mašek				
10:30	10:50	DESIGN	Effect of Defects on Buckling of Stiffeners of Aircraft Structures	MAT-S	Thermal Conductivity of Cu7.2Ni1.8Si1Cr Copper Alloy Produced via SLM and Ability of Thin-Wall Structure Fabrication				
			Radek Doubrava, Martin Oberthor, Milan		Łukasz Wolski				
10:50	11:10	MAT	Verification and Numerical Simulation of Advanced Composite Inlet in Compliance of Airworthiness Impact Requirements	SYS-S	Beyond Visual Line of Sight UAV Communication System	Conference New Trends in Civil Aviation			
			Ilmars Blumbergs, Martins Kleinhofs, Rafal Chatys and Alexander Panich		Marek Łukasiewicz, Przemysław Bibik and Konrad Łukasiuk				
11:10	11:30	MAT	Destructive Process Models of Composite in Case of Coupled Environment Fracture Model	SYS-S	Precise Manoeuvre Guidance System for UAVs using Machine Visio				
11:30	11:50			TRAN-S	Anrieta Dudoit and Jonas Stankunas Horizontal Conflict Resolution in Free Route Environment				
					Peter Kaľavský, Róbert Rozenberg, Pavol Petríček, Vladimír Socha and Luboš Socha				
11:50	12:10			TRAN-S	Rope Procedures for Extraction and Insertion of Persons Used by Helicopter Emergency Medical Service				
12:10	13:10	Lunch							
13:10	14:10	Plenary Lecture	Blanka Lenczowski Airbus New Product Cision for Aerospace by Applying	-	-				
			New Material Technologies Aircraft Design - Research and Education						
		Session IV-A	(EWADE)	Session IV-B	Aircraft Systems and Security				
		Session IV A	Aerospace Education (READ)	3C33101111 B	Aeronautical Transport				
		Chairman:	Oleksiy Chernykh	Chairman:	Luboš Janhuba				
			Tomasz Rogalski		Pavel Zikmund				
14:10	14:30	EDU	In-Flight Tests in Students Projects	SYS	Haptic feedback in Pilot-Aircraft Interaction				
			Ingo Staack		Jan Šplíchal and Jiří Hlinka				
14:30	14:50	EDU	Establishment of the Swedish Aeronautical Research Center (SARC) to Foster National Education, Research and Industry Cooperation	SYS/DESIGN	Modelling of Health Monitoring Signals and Detection Areas for Aerospace Structures				
			Odile Tissier		Rostislav Koštial, Luboš Janhuba and Jiří Hlinka	Conference New Trends in Civil Aviation			
14:50	15:10	EDU	Project-oriented Education: from Engineering School to Engineering Jobs	SYS	Aircraft Leading Edges Minor Damages Detection Based on Thermographic Survey of Electrical Anti-Icing Systém				
			Agnieszka Kwiek		Allan Nõmmik				
15:10	15:30	EDU	Teaching Aircraft Design Through a Blended Learning Method in a Higher Education	TRAN	Trends in Development of Aircraft for Regional Routes: Impact on the European Air Transportation System				
			Pinqi Xia, Anatoly Kretov, Dmytro Tiniakov, Oleksiy Chernykh		Miroslav Šplíchal				
15:30 15:50	15:50 16:00	EDU	AWADE as the Asian Variant of a Workshop on Aircraft Design Education	TRAN	Reduce Pilot Stress in the Landing Maneuver by Providing Accurate Height Information				
16:00	16:20		Coffee br	eak					
16:20	16:40		Students awards ceremony						
16:40	17:10		Closing Ceremony						
19:00	23:00			Forma	/ Informal social evening				