# 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

8:00	3.00	REGISTRATION							
			Nen-harnque hall	Conference room B					
		Session	Neo-baroque hall  Authors/ Title	Session	Conference room A  Authors/ Title	Session	Conference room B  Authors/ Title		
9:00	9:20	-	Introduction and welcome speech	-	-	-	-		
		Plenary	Milan Šlapák						
9:20	10:20	Lecture	GE Aviation Czech	-	-	-	-		
10:20	10:40	Taking off with 3D print  Coffee break							
Student session : Aerodynamic and									
		Session I-A	Flight Mechnics	Session I-B	Aircraft Design	Session I-C	Aircraft Systems and Security		
	1	Chairman:	Tomasz Goetzendendorf-Grabowski	Chairman:	Jaroslav Juračka	Chairman:	Jiří Hlinka		
			Pratik Meghani		Agnieszka Kwiek		Luboš Janhuba, Rostislav Koštial and Jiří Hlinka		
10:40	11:00	AERO-S		DESIGN		SYS	Integrated Method utilizing Graph Theory		
			A 2D Aerodynamic Study on Morphing		Conceptual Design of an Aircraft for Mars		and Fuzzy Logic for Safety and Reliability		
			in the NACA 2412 Airfoil		Mission		Assessment of Airborne Systems		
			Katasa and Dabilasa and Tanana				Cohastian Tanasawahi Astasi		
	11:20	AERO-S	Katarzyna Pobikrowska and Tomasz Goetzendorf-Grabowski	DESIGN	Petr Augustín	sys	Sebastian Topczewski, Antoni Kopyt, Przemysław Bibik and Marcin Żugaj		
11:00							Development of an Automatic System for		
			Stability Analysis of the Experimental		Simulation of Fatigue Crack Propagation		Helicopter Autopilot Performance		
			Airplane Powered by a Pulsejet Engine		in the Wing Main Spar Flange		Evaluation		
			Jiří Matějů Simple Universal Nonlinear		Jakub Šedek		Karel Třetina		
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		
11.40	11.50		Derivatives		*				
11:40	11:50				Break				
			Ugyen Wangchuk		Miroslav Červenka and Rostislav Koštial		Antoni Kopyt, Przemysław		
							Bibik and Grzegorz Świętoń		
11:50	12:10	AERO-S	Finding the Optimum Active Laminar	DESIGN		SYS	An Implementation and Verification the		
			Flow Control Design Using Continuous		Layout Optimisation for Active Structure		Objective Assessment Tool for Pilots'		
			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,	SYS	Advanced Technologies and		
			used for Seaplanes Performance Prediction		Long Endurance Unmanned Aerial Vehicle		Methodologies for Engine Control Design		
			Yanina Berdnik and Alexey Beskopylnyy						
12:30	12:50	AERO-S	The Approximation Method in the						
			Problem on a Flow of Viscous Fluid Around a Thin Plate						
			Around a minimate						
12:50	13:50				Lunch				
						1			
			Zdobysław Goraj						
			Politechnika Warszawska						
13:50	14:20	Plenary Lecture	Stress, Strain and Displacement	-	-	-	-		
		Lecture	Analysis of Geodetic and Conventional Fuselage Structure for Future Passenger						
			Aircraft						
		Session II-A	Aerodynamic and Flight Mechanics	Session II-B	Student session: Aircraft Design				
		Jession II-A	Acrodynamic and riight Wechanics	Session II-B	Materials and Technology in Aeronautics				
		Chairman:	Robert Popela	Chairman:	Ivo Jebáček				
		Citati IIIaii.	Robert i opeia	Cildii ilidii.					
					Viktor Karabut, Vitaly Dudnik and Ilya Samsonov				
14:30	14:50			DESIGN-S					
					Preliminary Optimization of Composite				
					Blades for "Shmel" Light Helicopter				
			Marco Evangelos Biancolini, Ubaldo		Facetively 1 affection and the Service				
			Cella, Corrado Groth and Emiliano Costa		František Löffelmann and Jan Šplíchal				
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				
			Morphing and Modal Superposition Method		Optimization				
			Marcin Figat		Peter Deak and Michał Kowalik				
15:10	15:30	AERO	The Aerodynamic Design of the Aircraft	DESIGN-S	Composite Aircraft Joint Experimental				
		1	in Tandem Wing Configuration		Testing with Digital Image Correlation				
15:30	16:00				Coffee break				
			Robert Kulhánek		Igor Skawiński and Tomasz Goetzendorf-				
	16:20	AERO	Identification of a Degradation of	MAT-S	Grabowski				
16:00			Aerodynamic Characteristic of a		FDM 3D Printing Method Utility				
			Paraglider due to its Flexibility from		Assessment in Small RC Aircraft Design				
-	-		Flight test						
4,,	16:40	AERO	Jacek Mieloszyk and Andrzej Tarnowski	MAT-S	Matteo Pontecorvo				
16:20			Improvements in Conceptual Electric		Design of Manufacturing Simulations of a				
			Aircraft Design		Flatplate Pulstaing Heat Pipe				
					Nina Malalan and Pavel Zikmund				
					Haptic Aircraft-pilot Interaction Device				
16:40	17:00			SYS-S	for Spatial and Movement Guidance: a Research of the Encoding Possibilities of				
					the Distance Information with				
					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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			Neo-baroque hall		Conference room A	Conference room B
		Section	Authors/ Title	Section	Authors/ Title	Section Authors/ Title
		Plenary	Štefan Klein			
9:00	10:00	Lecture	AirCar	-	-	
40.00	40.20		Coffee br			
10:00	10:30		Collee bi			
		Session III-A	Aircraft Design	Session III-B	Student session: Aircraft Systems and Security	
			Materials and Technology in Aeronautics		Aeronautical Transport	
		Chairman:	Zdobysław Goraj	Chairman:	Allan Nõmmik	
			Tomáš Katrňák, Jaroslav Juračka and Ivo Jebáček		Jakub Mašek	
	10:50	DESIGN		MAT-S		
10:30			Effect of Defects on Buckling of Stiffeners of Aircraft Structures		Copper Alloy Produced via SLM and	
					Ability of Thin-Wall Structure Fabrication	Conference New Trends in Civil Aviation
	11:10	MAT	Radek Doubrava, Martin Oberthor, Milan	SYS-S	Łukasz Wolski	
10:50			Verification and Numerical Simulation of		Beyond Visual Line of Sight UAV	
			Advanced Composite Inlet in Compliance of		Communication System	
			Airworthiness Impact Requirements Ilmars Blumbergs, Martins Kleinhofs, Rafal Chatys		Marek Łukasiewicz, Przemysław Bibik and	
			and Alexander Panich		Konrad Łukasiuk	
11:10	11:30	MAT	Destructive Process Models of Composite in	SYS-S	Precise Manoeuvre Guidance System for	
			Case of Coupled Environment Fracture Model		UAVs using Machine Visio	
			case of coupled Entirement Flacture Model			
11:30	11:50			TRAN-S	Anrieta Dudoit and Jonas Stankunas	
11.50	11.50			110414-5	Horizontal Conflict Resolution in Free Route Environment	
					Peter Kaľavský, Róbert Rozenberg, Pavol Petríček, Vladimír Socha and Luboš Socha	
					retrices, viadimii Sociia and Eubos Sociia	
11:50	12:10			TRAN-S	Rope Procedures for Extraction and Insertion of Persons Used by Helicopter	
					Emergency Medical Service	
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12:10	13:10				Lunch	
					I	
			Blanka Lenczowski			
13:10	14:10	Plenary Lecture	Airbus	-	-	
		Lecture	New Product Cision for Aerospace by Applying			
			New Material Technologies			
		Session IV-A	Aircraft Design - Research and Education	Session IV-B	Aircraft Systems and Security	
		Session IV-A	(EWADE) Aerospace Education (READ)	Session IV-B	Aeronautical Transport	
		Chairman:	Oleksiy Chernykh	Chairman:	Luboš Janhuba	
	14:30	EDU	Tomasz Rogalski	sys	Pavel Zikmund	
14:10			In-Flight Tests in Students Projects		Haptic feedback in Pilot-Aircraft	
					Interaction	
			Ingo Staack	SYS/DESIGN	Jan Šplíchal and Jiří Hlinka	
14:30	14:50	EDU	Establishment of the Swedish Aeronautical		Modelling of Health Monitoring Signals	
			Research Center (SARC) to Foster National Education, Research and Industry Cooperation		and Detection Areas for Aerospace Structures	
			Education, Research and moustry Cooperation			
			Odile Tissier		Rostislav Koštial, Luboš Janhuba and Jiří	Conference New Trends in Civil Aviation
					Hlinka	
14:50	15:10	EDU	Project-oriented Education: from Engineering	SYS	Aircraft Leading Edges Minor Damages	
			School to Engineering Jobs		Detection Based on Thermographic	
					Survey of Electrical Anti-Icing Systém	
	15:30	EDU	Agnieszka Kwiek	TRAN	Allan Nõmmik	
15:10			Teaching Aircraft Design Through a Blended		Trends in Development of Aircraft for Regional Routes: Impact on the European	
			Learning Method in a Higher Education		Air Transportation System	
	15:50	EDU	Pinqi Xia, Anatoly Kretov, Dmytro Tiniakov,			
			Oleksiy Chernykh		Miroslav Šplíchal	
15:30			AWADE as the Asian Variant of a Workshop on	TRAN	Maneuver by Providing Accurate Height	
15:50	16:00		Aircraft Design Education		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	