

Thursday, 15 October

Research and Education in Aircraft Design (READ)		
08:00–09:00	Registration	
09:00–09:30	Welcome to the Seminar	Hall SATISFACTION
	Opening message: Jonas Stankūnas Director Antanas Gustaitis Aviation Institute of Vilnius Gediminas Technical University	
	Alfonsas Daniūnas Rector Vilnius Gediminas Technical University	
	NN Ministry of Education and Science of the Republic of Lithuania	
	NN Ministry of Transport and Communications of the Republic of Lithuania	
	NN Ministry of Defence of the Republic of Lithuania	
	Zdobyslaw Goraj Seminar founder Warszaw University of Technology, Poland	
09:30–13:30	Session I: Plenary Session	
09:30–10:00	Europe's flight-path into the future – are we on the right track?	Joachim Szodruich Hamburg Aviation, Germany
10:00–10:30	Fly around the World with a solarpowered aircraft	Hannes Ross IBR, Germany
10:30–11:00	Realization of aircraft on IAE and cooperation with the aircraft industry	Antonin Pištek Brno University of Technology, Czech Republic
11:00–11:30	Coffee break	
11:30–12:00	A new approach to aircraft design and development	Oleg Spakov University of Tampere, Finland
12:00–12:30	ICAO strategy for threat assessment and risk mitigation management	Galyna Suslova ICAO Training Institute National Aviation University, Ukraine
12:30–13:00	Project "Study of the thermal conditions for glider flights in Bieszczady mountains"	Tomasz Rogalski Rzeszow University of Technology, Poland
13:00–13:30	Lithuanian Air Forces – 20 years	Ministry of Defence of the Republic of Lithuania
13:30–14:30	Lunch	

14:30-18:40	Session II a Research and Education in Aircraft Design		Hall RESPECT
14:30–14:50	Perspective of regional airports accessibility in Eastern Europe	Allan Nõmmik Estonian Aviation Academy, ESTONIA	
14:50–15:10	Air transport – a lecture for aerospace and transport engineering	Dieter Schmitt ARTS-OS Aeronautical Consultancy, GERMANY/ FRANCE	
15:10–15:30	Integration of licensed professions into higher education programmes	Ilmars Blumbergs Olafs Brinkmanis Mihails Karols Institute of Aeronautics of Riga Technical University, LATVIA	
15:30–15:50	An educational experience at Politecnico di Torino to state and increase capability in aircraft layout comprehension and definition	Sergio Chiesa Marco Fioriti Roberta Fusaro Politecnico di Torino, ITALY	
15:50–16:10	The influence of additives on the quality parameters of aviation fuels	Valentina Vilutienė Gvidonas Labeckas Stasys Slavinskas The General Jonas Žemaitis Military Academy of Lithuania; Aleksandras Stulginskis University, LITHUANIA	
16:10–16:30	Possible hybrid propulsion configuration for transport jets aircraft	Sergio Chiesa Marco Fioriti Roberta Fusaro Politecnico di Torino, ITALY	
16:30-17:00 Coffee break			
17:00–17:20	Analysis of stability derivatives important to recovery from spin	Marcin Figat Zdobyslaw Goraj Warsaw University of Technology, POLAND	
17:20–17:40	In-orbit results from the LITUANICASAT-1 nanosatellite mission	Laurynas Mačiulis Vilnius Gediminas Technical University, Vilnius University, LITHUANIA	
17:40–18:00	ATC system safety nets operation environment and optimization scenarios	Liudas Mašnauskas, Jonas Stankūnas Antanas Gustaitis Aviation Institute of Vilnius Gediminas Technical University, LITHUANIA	
18:00–18:20	Optimization of air navigation services provision model at regional level	Jonas Stankūnas Vaidotas Kondroška Anrieta Dudoit Antanas Gustaitis Aviation Institute of Vilnius Gediminas Technical University, LITHUANIA	
18:20–18:40	Estimation of Small UAV flight trajectory	Darius Rudinskas Antanas Gustaitis Aviation Institute of Vilnius Gediminas Technical University, LITHUANIA	

14:30-18:20	Session II b: Research and Education in Aircraft Design		Hall IMAGE
14:30–14:50	Numerical simulation for random aeroelastic responses using inverse fourier transform	Tetsuhiko Ueda Nagoya University, JAPAN	
14:50–15:10	Strength determination and prediction of destructive processes of composites	Mārtiņš Kleinhofs Ilmars Blumbergs Institute of Aeronautics of Riga Technical University, LATVIA	
15:10–15:30	Fracture toughness of adhesive bond of composite	Vitalijs Pavelko Kristaps Lapsa Sergey Kuznetsov Institute of Aeronautics of Riga Technical University, LATVIA	
15:30–15:50	Mechanical and numerical modelling of elastic particles in viscoelastic matrix	Vytautas Rimša Antanas Gustaitis Aviation Institute of Vilnius Gediminas Technical University, LITHUANIA	
15:50–16:10	Simplified simulation of low velocity impact damage of a thin laminate	Igors Pavelko Vitalijs Pavelko Maxim Smolyaninov Institute of Aeronautics of Riga Technical University, LATVIA	
16:10–16:30	Rapid geometry definition for multidisciplinary design and analysis of an aircraft	Tomasz Goetzendorf-Grabowski Jacek Mieloszyk Dawid Mieszalski	
16:30-17:00 Coffee break			
17:00–17:20	Wing bending influence on gust loads	Eduardas Lasauskas Antanas Gustaitis Aviation Institute of Vilnius Gediminas Technical University, LITHUANIA	
17:20–17:40	Performance analysis of the inverted joined wing scaled demonstrator	Mateusz Lis Cezary Galinski	
17:40–18:00	x	Ivan Suzdalev Institute of Vilnius Gediminas Technical University, LITHUANIA	
18:00–18:20	Interaction with lightweight quadcopters using head tracking	Darius Miniotas Institute of Vilnius Gediminas Technical University, LITHUANIA	

WELCOME RECEPTION

October 15th, 19:30 hrs.
The Comfort Hotel

Wednesday, 16 October

Research and Education in Aircraft Design		
09:30-17:45	Session III: Student Session	Hall SATISFACTION
09:00–09:15	Education as a basic element of improving professional	Olegs Gorbačovs Institute of Aeronautics of Riga Technical University, LATVIA
09:15–09:30	Evaluation of composite materials – surge current tests	Julia Mirowska Scientific Academic Circle “Phase” , Warsaw University of Technology, POLAND
09:30–09:45	Research of themicromechatronics of composite materials with polymer matrix failure under static loading by the acoustic emission method	Kristine Carjova Institute of Aeronautics of Riga Technical University, LATVIA
09:45–10:00	Study on static and dynamic stability of modular airplane system	Agnieszka Kwiek
10:00–10:15	Miniflap influence on sailplane flight characteristics	Peep Lauk, Karl-Eerik Unt
10:15–10:30	Topometrical fem optimization of L 410 NG aircraft wing structure	Tomáš Katrňák
10:30–10:45	Modifications of a simple I-beam and its effects on the stress	Jakub Cejpek
10:45–11:00	Study on static and dynamic stability of modular airplane system	Katarzyna Justyna Seneňko
11:00-11:30	Coffee break	
11:30–11:45	Integration of the propulsion system with MOSUPS aircraft	Krzysztof Bogdanski, Mirosław Rodzewicz
11:45–12:00	The advantage of a hybrid piston prop aircraft	<i>Roberta Fusaro</i>
12:00–12:15	Choosing of engine and determination of power plant parameters for very light helicopter	Grigory Dudnik, Ilia Samsonow, Viktor Karabut
12:15–12:30	Ensuring of aircraft safety on landings	Mareks Šlihta Irina Lazareva Vladimir Shestakov
12:30–12:45	Interrelation quality model of functioning airline and level of flight safety	Ruta Bogdane
12:45–13:00	Research into passengers' survival in aircraft accidents	Irina Lazareva Mareks Šlihta
13:00–13:15	Shift work health risk prevention for air traffic controllers	Gytė Tupčiauskaitė

13:15-14:15	Lunch	
14:15-14:30	The designation of the optimal ATC sector	Anrieta Dudoit
14:30-14:45	Riga FIR Division into Sectors According to the Air Traffic Flow for Safer UAS Exploitation	Monta Lacane, Aleksandrs Urbahs
14:45-15:00	Streamline the system of a maintenance management	Andris Vaivads Vladimir Shestakov
15:00-15:15	Optimization of the Range of an Aircraft Using the Modified Genetic Algorithm	Tianguang Lu
15:15-15:30	Algorithms of automatic take off and landing for remotely piloted aircraft systems	Dariusz Nowak, Tomasz Rogalski
15:30-15:45	Hardware structure of control system for UAV	Damian Kordos
15:45-16:00	Small RPAS in flight testing - programme and result analysis	Dariusz Nowak, Grzegorz Kopecki, Marcin Żugaj, Paweł Rzucidło
16:00-16:30	Coffee break	
16:30-16:45	Soft landing test of an interplanetary probe in the Earths conditions	Jan Pejchar
16:45-17:00	Evaluation of an autonomous aerial vehicle flight path accuracy	Ramūnas Kikutis
17:00-17:15	Methods for safety and reliability evaluation of general aviation aircraft electric system	Luboš Janhuba, Jan Navrátil
17:15-17:30	Research of remotely piloted vehicles for Cargo transportation	Ugnius Ragauskas, Domantas Bručas
17:30-17:45	Analysis of maintaining pilot training flight parameters	Tadas Masiulionis, Jonas Stankūnas
17:45-18:15	International Jury. Round Table Discussion	
18:15-18:45	Best Student Presentation Award Ceremony	
18:45-19:15	Round Table Discussion and Closing Ceremony	

Friday, 17 October

Tour Day	
09:30-10:00	Registration
10:00-10:15	Welcome and agenda of the day
10:15-15:00	Tour: Vilnius City; campus of the Vilnius University; National museum "Palace of the Grand Dukes of Lithuania"