

Asian Workshop on Aircraft Design Education

21-22 October, 2022

NAAA, Room 511,
Building A18, 29, Yudao Str.
Nanjing

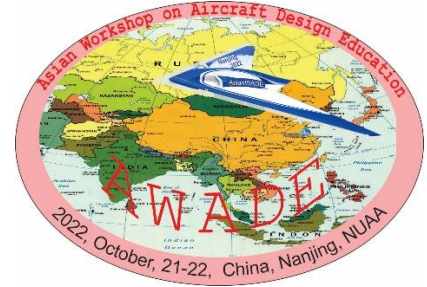
Work Program of the AWADE-2022

Online Seminar

22nd October (Sat), morning

Session 1

Session chairs: *Prof. Anatolii Kretov and Prof. Dmytro Tiniakov*



Time (Beij.)	Kind of work	Author(s)	Topic	(Organization)	Report mode
08:30 – 08:50	Checking the communication of the 1st session participants				Online Online*
09:00 – 09:25	Opening Ceremony Welcome Speech to Asian Workshop AWADE-2022 and 70 th Anniversary of Nanjing University of Aeronautics and Astronautics <i>Prof. Anatolii Kretov. Brief speech about AWADE and EWADE history and seminar program</i> (College of Aerospace Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing, China)				Online* Online
09:25 – 10:05	Keynote speech 1. <i>Anthony P. Hays. Hydrogen-Powered Aircraft</i> (California, USA)				Online
10:05 – 10:40	Keynote speech 2. <i>Prof. Jin. A new development of the design of the small airplane in NUAA</i> (College of Aerospace Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing, China)				Online*
10:40 – 11:00	Break				
11:00 – 11:15	Work speech 1. <i>Clifton Read¹, Anatolii Kretov², and Yury Mekhonoshin³. Aerospace parachutes - as effective means of braking the returnable launch vehicles blocks and aerospace planes.</i> (1 – Executive Wisdom Consulting Group, Brisbane, Australia. 2 – College of Aerospace Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing, China, 3 – Research and Implementation Center “Atmosphere”, Skolkovo, Russia)				Online*
11:15 – 11:30	Work speech 2. <i>X.Zhao^{1*}, W.J.C. Verhagen². Aircraft Life Cycle Cost Analysis Supported by Knowledge Based Engineering</i> (1 – College of Aerospace Engineering, Nanjing University of Aeronautics and Astronautics, 2 – School of Engineering, Aerospace Engineering and Aviation, RMIT University, China)				Online
11:30 – 11:45	Work speech 3. <i>Zhaolin Chen¹, XiaoHui, Wei¹, and Ning Qin². Optimization of High-Mach Low-Reynolds Number Airfoil Based on Genetic Algorithm</i> (1 – College of Aerospace Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing, China, 2 – Department of Mechanical Engineering, University of Sheffield, UK)				Online
11:45 – 12:00	Work speech 4. <i>S. Yeremenko, T. Solianyuk. Aerodynamic features of the swept-forward wing</i> (Department of Aero and Hydrodynamic, National Aerospace University «Kharkiv Aviation Institute»)				Online
12:00 – 12:15	Work speech 5. <i>Mohanned Saleh (Fu Jian). Dynamic and Static Stability/Instability of Different Composite Structures</i> (State Key Laboratory of Mechanics and Control of Mechanical Structures, University of Aeronautics and Astronautics, Nanjing, China, Nanjing).				Online*

* All reports will be executed remotely (online), including speakers from Nanjing University of Aeronautics and Astronautics (online*)

2nd October (Sat), afternoon and evening

Session 2

Session chairs: *Prof. Anatolii Kretov and Prof. Dmytro Tiniakov*

Time (Beij.)	Kind of work	Author(s)	Topic	(Organization)	Report mode
13:30 – 13:50	Checking the communication of the 2st session participants				Online Online*
14:00 – 14:40	Keynote speech 3:	<i>D. Tiniakov¹ and A. Kretov².</i>	<i>The Weight and Aerodynamic Efficiency Estimation for a Wing with High Aspect Ratio for Future Civil Aircraft</i>	(1 – College of Civil Aviation, 2 – College of Aerospace Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing, China)	Online*
14:40 – 15:20	Keynote speech 4:	<i>Dieter Scholz.</i>	<i>Tools and Data for the Aircraft Design Community to Optimize Part 25 Jets and Props</i>	(Hamburg University of Applied Sciences, Hamburg, Germany)	Online
15:20 – 15:35	Work speech 6.	<i>Liia Makarova.</i>	<i>Features of the distance education process in aviation engineering disciplines</i>	(Department of Helicopter Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing, China)	Online
15:35 – 15:50	Work speech 7.	<i>Dennis Camilo, Dieter Scholz.</i>	<i>Comparing Aircraft Wake Turbulence with Induced Power Calculations</i>	(Hamburg University of Applied Sciences, Hamburg, Germany)	Online
15:50 – 16:10	Break				
16:10 – 16:25	Work speech 8.	<i>Pavel V. Zhuravlev and Vladimir N. Zhuravlev.</i>	<i>Creating models for early stages of design of families of trunk-route passenger airplanes</i>	(Moscow Aviation Institute, Department of Pre-Design and Effectiveness of Complex Aviation Systems, Moscow, Russia)	Online
16:25 – 16:40	Work speech 9.	<i>Dalius MAŽEIKA¹, Piotr VASILJEV², Sergejus BORODINAS¹, Arunas STRUCKAS², Regimantas BAREIKIS^{1,2}.</i>	<i>Flat ring-type radial-torsional ultrasonic motor for micro UAV</i>	(1 – Vilnius Gediminas Technical University, Vilnius, Lithuania, 2 – Vytautas Magnus University, Kaunas, Lithuania)	Online
16:40 – 16:55	Work speech 10.	<i>V.I. Khaliulin, L.P. Shabalin, V.V. Batrakov, E.A. Puzyretskiy.</i>	<i>Simulation of composite molds 3D printing and lattice structures transfer molding</i>	(Kazan National Research Technical University named after A.N. Tupolev-KAI, Kazan, Russia)	Online
16:55 – 17:10	Work speech 11.	<i>N. Uddin and R. S. Pant.</i>	<i>Design and Sizing of Reusable Indoor Hot Air Balloon (RIHAB) Lighter-than-air</i>	(Systems Laboratory, Aerospace Engineering Department, Indian Institute of Technology Bombay, Mumbai, India)	Online
17:10 – 17:25	Work speech 12.	<i>Eiman B. Saheby.</i>	<i>Supersonic Drone (design and challenges)</i>	(College of Aerospace Engineering, Nanjing University of Aeronautics and Astronautics, Nanjing, China)	Online*
17:25 – 17:40	Summing up the results. Discussion of AWADE action plans for 2023				

We will use the "Tencent Meeting" platform for our work

Meeting Topic: Prof. Tiniakov Dmytro's Scheduled Meeting

Time: 2022/10/22 08:00-18:00 (GMT+08:00) China Standard Time - Beijing

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