

Short report on AWADE-2018 results work on October 14-17

AWADE-2018 was held in Nanjing University of Aeronautics and Astronautics (NUAA) on October 14-17. The Workshop was dedicated to 60th Anniversary of the flight of first Chinese jet JJ-1.

AWADE-2018 included work in two areas: Seminar and Student Design Competition.

27 works were presented at the Seminar. The number of authors was 49 from 13 countries (China, Russia, Ukraine, Germany, Romania, Lithuania, USA, Australia, Uzbekistan, Madagascar, Ghana, Congo and Kenya). During two working days, October 15-16, 4 sessions were held, where 25 reports were heard, including 11 in the format of Skype conference from other universities, one work was presented in the form of a poster report, one presentation was not held because of the speaker's illness.

The following works were recognized as the best:

Anthony P. Hays (California State University Long Beach, USA). **Aircraft Design for Reduced Carbon Emissions** – as the most informative report on the perspective directions of the future development of aviation.

Professor Valentin Khaliulin (Kazan National Research Technical University, Russia) For a series of presentations of **Design And Manufacture of Power Components of Aircraft from Composites** – which were made with the broad involvement of students.

Professor Stanislaw Gorb (Department of Functional Morphology and Biomechanics, Zoological Institute of the University of Kiel, Germany). **Structure and Properties of Dragonfly Wings: Composite Structure of Fibrous Material Supplemented by Resilin** – as the most original topic aimed at studying the achievements of natural structures

During the 4th session, in parallel with the Seminar, the personal Student Design Competition (SDC) was held in.

26 bachelor and master students from three universities: NUAA, KhAI (Kharkiv, Ukraine), KAI (Kazan, Russia) announced their participation in SDC. Each participant received eight questions on five topics of aircraft design:

Section	Maximum points
1. Common terms and topics	5
2. Aerodynamics	10
3. Strength	10
4. Manufacturing	10
5. Design	
5.1	10
5.2.	10
5.3.	45
Total:	100

14 reports were presented to the jury. The winners have been:

Name	Education Status	Place of study	Number of points
1. <i>Vladislav Poliakov</i> ,	bachelor 4 years,	KhAI, Ukraine	78.8
2. <i>Allan Dias</i> ,	bachelor 4 years,	NUAA, College of International Education	74.4
3. <i>Hanna Nechyporenko</i> ,	master 2 years,	NUAA, College of Civil Aviation	73.0

The authors of the best works and all participants will be awarded the appropriate certificates.

Chairman of the Technical Committee AWADE-2018
Prof. *Anatolii Kretov*



Participants of the 1st Session of the AWADE Seminar



Discussion of the report of Anthony P. Hays



Dean Prof. Pinqi Xia congratulates Tony Hays with the excellent report
“Aircraft Design for Reduced Carbon Emissions”



Skype-presentation from Australia of Clifton Read



The deliberations of the jury members and participants of the SDC the proposals for improving this work form for the AWADE